

# SECTION A

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### HBL® Extra Heavy Duty Hospital Grade



### Extra Heavy Duty SNAPConnect® Receptacles



### Permanently Marked Receptacles



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# Straight Blade Devices

## Products at a Glance



### HBL® Extra Heavy Duty Hospital Grade

- Hospital Grade with green dot symbol
- One-piece nickel-plated integral ground strap
- ID marking surface for quick circuit identification
- Square head, 10-thread bronze center rivet
- Deep nylon body design increases impact and chemical resistance



### HBL® Extra Heavy Duty

- Ground retention clips for longer, more consistent contact pressure
- Exclusive bypass contact design for greater contact force and reduced heat buildup
- Barbed assembly arms reduce possibility of face/base separation



### Extra Heavy Duty SNAPConnect®

- Hospital and Specification Grade
- Tamper-Resistant, NOT Plug Resistant™
- Power indicating LED
- Steel mounting strap, self-grounding
- Compact size requires minimal space



### Hubbell-PRO Heavy Duty

- Specification Grade and Hospital Grade
- Tamper-Resistant, NOT Plug Resistant™
- Power LED feature
- Circuit ID marking area
- Steel mounting strap, self-grounding
- Assembled in USA



### USB Charger Receptacles

- Two Type-C, Type A&C and Type A port configurations, high power 5 Amp, 5 Volt USB output
- Heavy duty stainless steel USB ports; rated for 10,000 cord insertions and removals
- Patented Hubbell Tamper-Resistant technology uses cam action shutters. The friction-free design of the mechanism's doors requires much less force
- 4 Port and 2 Port outlet available



### Commercial Specification Grade

- Installation ease
  - Single tab breakoff ears
  - Self-grounding staple
  - Easy access split circuit tab
- Tamper-Resistant, NOT Plug Resistant™
- Wrap-around galvanized steel straps



### 4-PLEX® Receptacles

- Standard and Hospital Grade
- Mounts directly to 4-inch square box
- "A" and "B" circuit ID molded into face
- Removable knockouts for mounting to octagon concrete ring or box
- Heavy duty, triple wipe, brass power and ground contacts



# Straight Blade Devices

## Features and Benefits

### Hubbell "Hospital Grade" Devices

UL requirements for Hospital Grade devices is more stringent than those for standard devices. Hubbell receptacles are designed to meet and exceed the standards.

- Exclusive nickel-plated bypass contact design increases contact pressure, lowering the operating temperature
- Four point grounding system provides redundant grounding for low resistance ground continuity in high abuse areas
- High tech reinforced thermoplastic polyester (RTP) back is tough and heat resistant

Because of these features and others, the benefit is performance, reliability and value for any health care facility.



HBL8200GY



#### Housing Design

- Reinforced thermoplastic base provides superior thermal, electrical and mechanical properties
- Providing contact stability, this high performance material will reduce heat buildup giving you long lasting performance
- Deep body design increases impact and chemical resistance



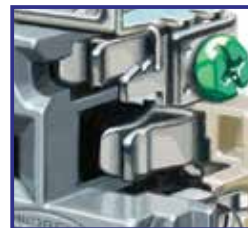
#### Terminals

- External wiring clamps allow for visual inspection of the terminals
- Unique strand containment feature on the terminal "bundles" the wire, ensuring 100% clamping of wire strands and reducing heat from the termination



#### One-Piece Mounting Strap

- Back wired ground terminal allows faster, easier installation
- One-piece nickel-plated brass integral ground strap for greater corrosion resistance
- Patented ground contact provides redundant grounding



#### Contacts

- Exclusive bypass contacts are made of nickel-plated brass alloy, increasing blade retention, insuring reliable uninterrupted flow of power
- Barbed assembly arms reduce possibility of face/base separation



#### Identification

- I.D. marking surface provides quick, sure circuit identification
- All Hospital Grade devices are marked with the green dot symbol, required by UL



#### Center Rivet

- Square head, 10-thread bronze center rivet won't rotate, reduces stripping and resists corrosion

# Straight Blade Devices

## Features and Benefits

### HBL® Extra Heavy Duty Industrial Series

Hubbell's commitment to quality continually reinforces a philosophy of unrivaled performance. No Hubbell device exemplifies this philosophy more than the HBL5262. While all Hubbell receptacles are designed and manufactured to withstand even the harshest environments, none match the total performance of the HBL5262.

Whether in a factory, office building, school, hotel or shopping center, the Hubbell HBL5262 is the receptacle of choice when people are depending on the safety and reliability of a receptacle.

- Ground retention clips for longer, more consistent contact pressure
- Back wired ground terminal reduces installation time and increases convenience

The safest, most reliable design for a low resistance flow of fault currents. Oversized "bell" shaped ground contacts, along with nickel plated steel retaining shields, help minimize damage to the grounding system during abrupt pullout.



HBL5262



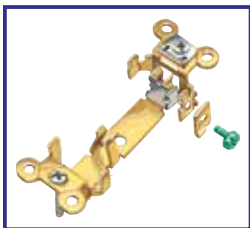
#### Housing Design

- RTP base offers greater heat resistance, plus contact stability
- Providing contact stability, this high tech material will reduce heat buildup, giving you long lasting performance
- Deep nylon body design delivers increased impact resistance



#### Terminals

- External bundling terminals contain wire strands and are designed for quick inspection
- Unique strand containment feature on the terminal "bundles" the wire, ensuring 100% clamping of wire strands and reducing heat from the termination



#### One-Piece Mounting Strap

- Back wired ground terminal allows faster, easier installation
- One-piece all brass integral ground strap for low resistance of fault currents
- Patented ground contact provides redundant grounding



#### Contacts

- Patented "bypass" contacts are made of nickel-plated brass alloy, increasing blade retention, insuring reliable uninterrupted flow of power
- Barbed brass locking arms keep the face locked in place to diminish potential for face/base separation



#### Identification

- I.D. marking surface provides quick, sure circuit identification



#### Center Rivet

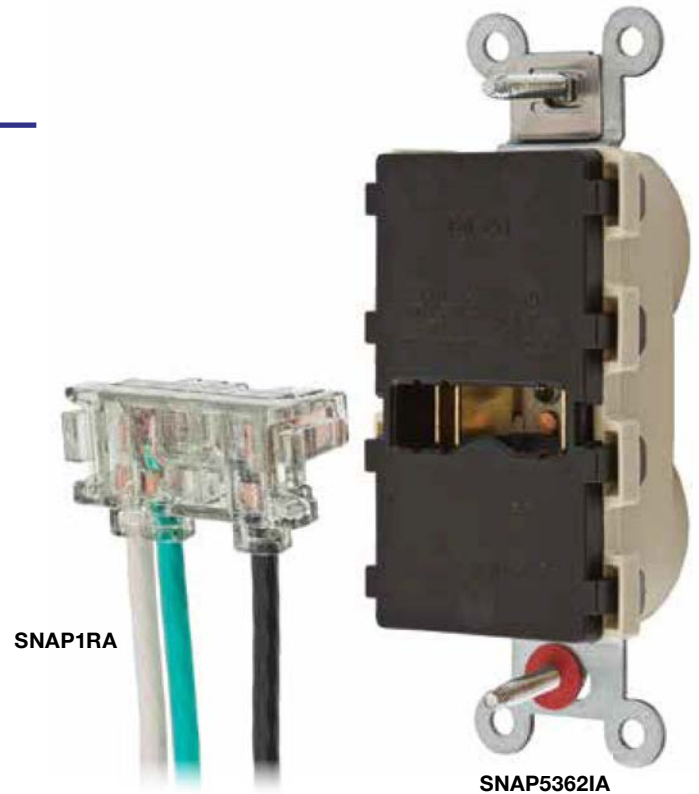
- Square head, 10-thread brass center rivet won't rotate, reduces stripping and resists corrosion

# Straight Blade Devices

## Features and Benefits

### Extra Heavy Duty SNAPConnect® Receptacles

- Available in standard, tamper-resistant and LED power indicating versions
- Abuse resistant nylon for extra heavy use applications
- Stainless steel autoground
- Assembled in USA
- SNAPConnect® eliminates exposed live terminals on the device
- Split circuit available



### Labor Savings Feature!



#### Housing Design

- Reinforced thermoplastic base provides superior thermal, electrical and mechanical properties
- Compact size, requires minimal box space
- Clean finished look



#### Save one Minute!

- Rough-in the SNAPConnect® terminal instead of pigtails



#### Installation Ease

- Self-grounding clip
- Modular receptacle which requires pigtailed connector below



#### Save Over Three Minutes!

- Remove protective packaging and SNAPConnect® device to the circuit



#### Identification

- Clear terminal housing for easy inspection of power contacts
- No exposed metal
- Audible SNAP, indicates solid connection
- Secure, easy grip latch



#### Complete Trim-Out in Less Than One Minute!

- Secure mounting screws, attach wallplate, job complete

# Straight Blade Devices

## Features and Benefits

### Commercial Specification Grade Receptacles

The Hubbell Tamper-Resistant Mechanism eliminates the frustration and difficulty experienced using TR receptacles with plugs that have sharp, or bent blades. Hubbell TR receptacles work so well there is virtually no perceptible difference in the feel between the TR receptacles and our conventional non-TR receptacles. Trust Hubbell to deliver TamperResistant protection that feels like it's not even there.

- Patented TR design eliminates plug-in difficulty and TR complaints
- Perfect for residential TR applications involving tenants with limited dexterity or hand strength
- Encourage electrical safety and NEC compliance
- For use in NEC® locations requiring TamperResistant receptacles
- Best-in-class TR mechanism



BR15I



DR20GRYTR



#### Housing Design

- Durable nylon face and base construction
- Modern architectural appearance, Style Line® decorator face



#### Tamper-Resistant... NOT Plug Resistant®

- Patented Cam Action Mechanism
- Hubbell's product development team engineered a better way
- Difficulties due to problematic plugs are minimized



#### One-Piece Mounting Strap

- Sturdy construction, wrap-around galvanized steel straps
- Installation ease
- Single tab breakoff ears
- Self-grounding staple



#### Contacts

- Easy access split circuit tab
- Fork terminal capable
- Oversized terminal screws



#### Permanently Marked Receptacles for Automatic Outlet Control Systems

- These receptacles are embossed with the universally recognized power symbol and the word "CONTROLLED" remains clearly visible after installation
- Available in SNAPConnect® and conventionally wired versions



#### Nightlight Receptacle

- Two nightlight LEDs for 0.5 Lumens total
- Tamper-resistant shutters complies with NEC article 406.12
- Back and side wired



# Straight Blade Devices

## Features and Benefits

### USB Charger Receptacles and Outlets

More Ways to Charge Faster with Hubbell's New USB Charger, now available in Type-C, Combination Type A&C or the legacy Type A, all with a USB high power output of 5 Amp 5 Volt. Hubbell's USB Charger Duplex Receptacle provides both USB and electrical power in a standard single gang opening. Designed to provide maximum charging for portable electronics, the USB ports are capable of charging two tablets simultaneously.

The 4 Port and 2 Port Charger Outlet feature a USB port door, which when open enables power. When closed, all power is switched off. This eliminates all current flow for a "zero" no-load draw. Buildings looking to provide 100% green efficiency in power delivery will maximize LEED and energy efficient design.

#### Common Features

- Green LED indicator to show USB power available
- USB stainless steel ports rated for minimum 10,000 insertions and removals
- Complies with battery charging specification BC1.2
- cULus listed to UL498 and UL1310
- Compatible with USB 1.1/2.0/3.0 devices, including Apple® products

Apple® is a registered trademark of Apple Inc.



USB15AC5W



USB4W



#### New USB Charger Receptacle

- High power 5 Amp, 5V DC USB output
- Available in Type-C, Combination Type A&C or Type A
- Provides both USB and electrical power in a standard single gang opening



#### Installation Ease

- Self-grounding staple
- Back and side wired
- SNAPConnect® devices reduce labor time during installation and when being serviced in the future



#### USB Charger Receptacle

- Available in Standard, Hospital Grade and SNAPConnect®
- cULus listed to UL498 and UL1310



#### 4 Port and 2 Port Features

- 4 Port (5 Amp) and 2 Port (3 Amp), 5V DC, type A, class 2.0
- Switch activated port door; when open enables power. When closed, all power is switched off, for a "zero" no-load draw
- Shallow depth design for 2 port
- 4 port USB - cETLus listed to UL1310
- 2 port USB - cULus listed to UL1310



#### Identification

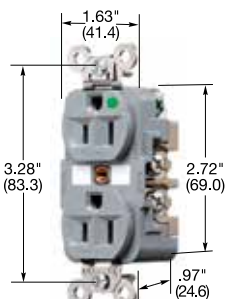
- Patented Hubbell Tamper-Resistant technology uses cam action shutters. The friction-free design of the mechanism's doors requires much less force to open
- Green LED indicator to show USB power available



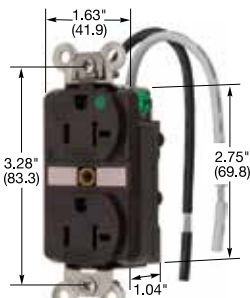
#### Switch Combo Outlets

- Two USB ports 2.1 Amp, 5Volt DC, type A, class 2.0
- Isolated 15 Amp, 120V AC single pole/3-way switch
- cULus listed to UL20 and UL1310

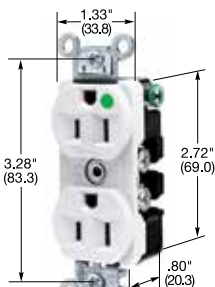
## 15 and 20 Ampere, 125 Volts



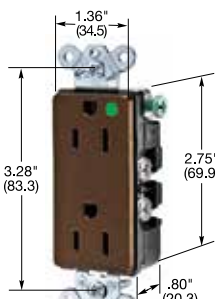
**HBL8200GY**



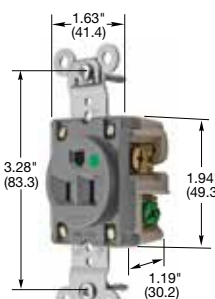
**HBL8300SGA**



**HBL8200ILW**



**HBL2172**



**HBL8210GY**

Dimensions in Inches (mm)

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

### HBL® Extra Heavy Duty Hospital Grade ● Receptacles

#### Duplex

Flush, thermoplastic polyester face, back and side wired.

Color	Catalog Number	
Black	<b>HBL8200BK</b>	-
Blue	-	<b>HBL8300BL</b>
Brown	<b>HBL8200</b>	<b>HBL8300</b>
Gray	<b>HBL8200GY</b>	<b>HBL8300GY</b>
Ivory	<b>HBL8200I</b>	<b>HBL8300I</b>
Light Almond	<b>HBL8200LA</b>	<b>HBL8300LA</b>
Red	<b>HBL8200RED</b>	<b>HBL8300RED</b>
White	<b>HBL8200W</b>	<b>HBL8300W</b>

Flush, LED illuminated face, back and side wired.

Gray	<b>HBL8200ILGY</b>	<b>HBL8300ILGY</b>
Ivory	<b>HBL8200ILI</b>	<b>HBL8300ILI</b>
Red	<b>HBL8200ILR</b>	<b>HBL8300ILR</b>
White	<b>HBL8200ILW</b>	<b>HBL8300ILW</b>



Tamper-Resistant receptacle with wire leads. Complies with requirements of NEC® article 517-18(c).

Brown	<b>HBL8200SGA</b>	<b>HBL8300SGA</b>
Gray	<b>HBL8200SGGYA</b>	<b>HBL8300SGGYA</b>
Ivory	<b>HBL8200SGIA</b>	<b>HBL8300SGIA</b>
Light Almond	<b>HBL8200SGLA</b>	<b>HBL8300SGLA</b>
Red	<b>HBL8200SGRA</b>	<b>HBL8300SGRA</b>
White	<b>HBL8200SGWA</b>	<b>HBL8300SGWA</b>

Isolated ground<sup>A</sup>.

Orange	<b>IG8200</b>	<b>IG8300</b>
Red	<b>IG8200R</b>	<b>IG8300R</b>

#### MRI Receptacle, Duplex

MRI receptacle, flush, thermoplastic polyester face, back and side wired. 100% non-ferrous.

Ivory	<b>HBL8200IMRI</b>	<b>HBL8300IMRI</b>
Light Almond	<b>HBL8200LAMRI</b>	<b>HBL8300LAMRI</b>
Red	<b>HBL8200RMRI</b>	<b>HBL8300RMRI</b>
White	<b>HBL8200WMRI</b>	<b>HBL8300WMRI</b>

#### Slender/Compact, Duplex

Flush, thermoplastic polyester face, back, and side wired, Fed. Spec. verified.

Brown	<b>HBL8200H</b>	<b>HBL8300H</b>
Gray	<b>HBL8200HG</b>	<b>HBL8300HG</b>
Green	-	<b>HBL8300HGN</b>
Ivory	<b>HBL8200HI</b>	<b>HBL8300HI</b>
Light Almond	<b>HBL8200HLA</b>	<b>HBL8300HLA</b>
Red	<b>HBL8200HRED</b>	<b>HBL8300HRED</b>
White	<b>HBL8200HW</b>	<b>HBL8300HW</b>

#### Style Line® Decorator\*

Flush, nylon face, back and side wired.

Brown	<b>HBL2172</b>	<b>HBL2182</b>
Gray	<b>HBL2172GY</b>	<b>HBL2182GY</b>
Ivory	<b>HBL2172I</b>	<b>HBL2182I</b>
Office White	-	<b>HBL2182OW</b>
Red	<b>HBL2172R</b>	<b>HBL2182R</b>
White	<b>HBL2172WA</b>	<b>HBL2182WA</b>

Isolated ground<sup>A</sup>.

Ivory	-	<b>IG2182I</b>
Orange	-	<b>IG2182</b>
White	-	<b>IG2182WA</b>

#### Single

Flush, nylon face, back and side wired, Fed. Spec. verified.

Almond	-	<b>HBL8310AL</b>
Brown	<b>HBL8210</b>	<b>HBL8310</b>
Gray	<b>HBL8210GY</b>	<b>HBL8310GY</b>
Ivory	<b>HBL8210I</b>	<b>HBL8310I</b>
Red	<b>HBL8210R</b>	<b>HBL8310R</b>
White	<b>HBL8210W</b>	<b>HBL8310W</b>

Panel mount on 1.94 in. (49.2) centers.

Brown	<b>HBL8284</b>	-
Ivory	<b>HBL8284I</b>	<b>HBL8384I</b>

Isolated ground<sup>A</sup>.

Orange	<b>IG8210</b>	<b>IG8310</b>
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Note: <sup>A</sup>See section M for additional information on isolated ground devices.

\*Not Fed. Spec. Listed.

See page A-46 and A-47 for accessories.

See page Tech-10 for Tamper-Resistant description.

See section L for additional information on Hospital Grade products.

See section N for wallplates.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

# Straight Blade Devices



## 15 and 20 Ampere, 125 and 250 Volts

### HBL® Extra Heavy Duty Hospital Grade Receptacles



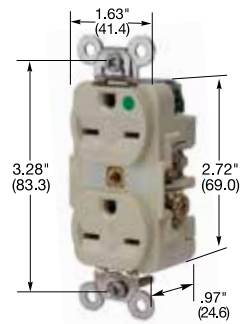
15A 250V  
NEMA 6-15R  
UL CSA  
1.5 HP



20A 250V  
NEMA 6-20R  
UL CSA  
2 HP

Duplex	Color	Catalog Number	
Flush, thermoplastic polyester face, back and side wired.	Brown	<b>HBL8600</b>	<b>HBL8400</b>
	Ivory	<b>HBL8600I</b>	<b>HBL8400I</b>

Note: See page A-46 for accessories.  
See section N for wallplates.



**HBL8600I**

### HBL® Extra Heavy Duty, Specification Grade, Receptacles

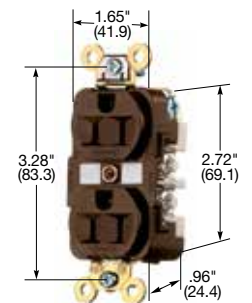


15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP

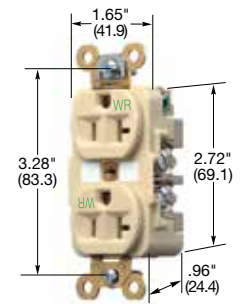


20A 125V  
NEMA 5-20R  
UL CSA  
1 HP

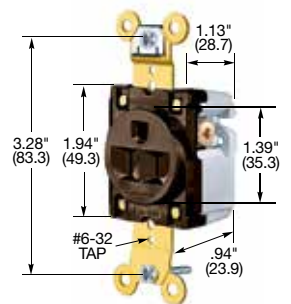
Duplex	Color	Catalog Number		
Flush, nylon face, back and side wired.	Black	<b>HBL5262BK</b>	<b>HBL5362BK</b>	
	Blue	-	<b>HBL5362BL</b>	
	Brown	<b>HBL5262</b>	<b>HBL5362</b>	
	Gray	<b>HBL5262GY</b>	<b>HBL5362GY</b>	
	Ivory	<b>HBL5262I</b>	<b>HBL5362I</b>	
	Red	<b>HBL5262R</b>	<b>HBL5362R</b>	
	White	<b>HBL5262W</b>	<b>HBL5362W</b>	
	Isolated ground <sup>A</sup> .	Gray	<b>IG5262GY</b>	<b>IG5362GY</b>
		Ivory	<b>IG5262I</b>	<b>IG5362I</b>
		Orange	<b>IG5262</b>	<b>IG5362</b>
Red		<b>IG5262R</b>	<b>IG5362R</b>	
White		-	<b>IG5362W</b>	
Non-isolated ground, bulk pack of 100.	Orange	-	<b>HBL5362M4</b>	
Weather Resistant, flush, nylon face, back and side wired.	Black	<b>HBL5262BKWR</b>	<b>HBL5362BKWR</b>	
	Brown	<b>HBL5262WR</b>	<b>HBL5362WR</b>	
	Gray	<b>HBL5262GYWR</b>	<b>HBL5362GYWR</b>	
	Ivory	<b>HBL5262IWR</b>	<b>HBL5362IWR</b>	
	Red	<b>HBL5262RWR</b>	<b>HBL5362RWR</b>	
	White	<b>HBL5262WWR</b>	<b>HBL5362WWR</b>	
Corrosion resistant.	Ivory	<b>HBL52CM62I</b>	-	
	Yellow	<b>HBL52CM62</b>	<b>HBL53CM62</b>	
Weather Resistant, Isolated ground <sup>A</sup> .	Gray	<b>IG5262GYWR</b>	<b>IG5362GYWR</b>	
	Ivory	<b>IG5262IWR</b>	<b>IG5362IWR</b>	
	Orange	<b>IG5262WR</b>	<b>IG5362WR</b>	
	Red	<b>IG5262RWR</b>	<b>IG5362RWR</b>	
	White	-	<b>IG5362WWR</b>	
On 4 in. (101.6) round cover.	Brown	<b>HBL5282</b>	-	



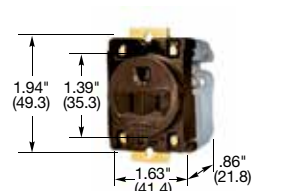
**HBL5262**



**HBL5362IWR**



**HBL5261**



**HBL5284**

### Single

Flush, nylon face, back and side wired.	Black	<b>HBL5261BK</b>	<b>HBL5361BK</b>
	Brown	<b>HBL5261</b>	<b>HBL5361</b>
	Gray	-	<b>HBL5361GRY</b>
	Ivory	<b>HBL5261I</b>	<b>HBL5361I</b>
	White	-	<b>HBL5361W</b>
Isolated ground <sup>A</sup> .	Orange	<b>IG5261</b>	<b>IG5361</b>
Weather Resistant, Isolated ground <sup>A</sup> .	Orange	<b>IG5261WR</b>	<b>IG5361WR</b>
Ring terminal connection.	Brown	<b>HBL5261RT</b>	<b>HBL5361RT</b>
	White	<b>HBL5261WRT</b>	-
	Yellow	<b>HBL5261YRT</b>	-
Weather Resistant, flush, nylon face, back and side wired.	Brown	<b>HBL5261WR</b>	<b>HBL5361WR</b>
	Gray	-	<b>HBL5361GRYWR</b>
Corrosion resistant.	Ivory	<b>HBL5261IWR</b>	<b>HBL5361IWR</b>
	Yellow	<b>HBL52CM61</b>	<b>HBL53CM61</b>
Panel mount on 1.94 in. (49.3) centers.	Brown	<b>HBL5284</b>	<b>HBL5357</b>

Note: <sup>A</sup>See section M for additional information on isolated ground devices.  
See pages A-46 and A-47 for accessories.  
See page Tech-10 for Weather Resistant descriptions.  
See section N for wallplates.

Dimensions in Inches (mm)

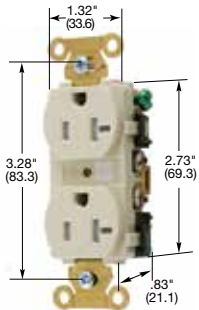
## 15 and 20 Ampere, 125 Volts



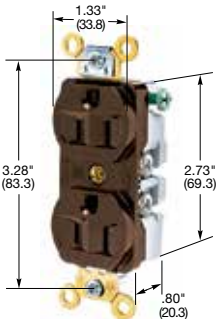
15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



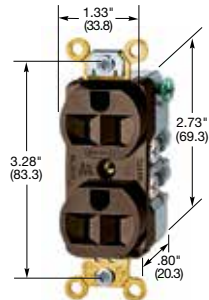
20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



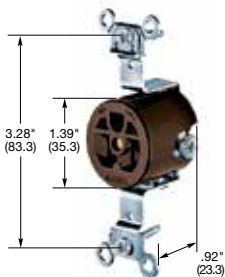
**HBL53621TR**



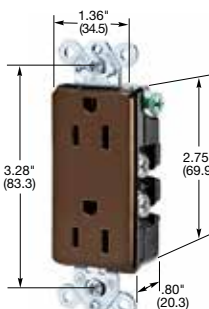
**HBL5252**



**HBL5242**



**HBL5251**



**HBL2152**

Dimensions in Inches (mm)

### HBL® Extra Heavy Duty Tamper-Resistant Receptacles

#### Duplex

Description	Color	Catalog Number	
Flush, nylon face, back and side wired.	Black	<b>HBL5262BKTR</b>	<b>HBL5362BKTR</b>
	Blue	<b>HBL5262BLTR</b>	<b>HBL5362BLTR</b>
	Brown	<b>HBL5262TR</b>	<b>HBL5362TR</b>
	Gray	<b>HBL5262GYTR</b>	<b>HBL5362GYTR</b>
	Ivory	<b>HBL5262ITR</b>	<b>HBL5362ITR</b>
	Light Almond	<b>HBL5262LATR</b>	<b>HBL5362LATR</b>
	Red	<b>HBL5262RTR</b>	<b>HBL5362RTR</b>
	White	<b>HBL5262WTR</b>	<b>HBL5362WTR</b>

### HBL® Extra Heavy Duty Compact Receptacles

#### Duplex

Description	Color	Catalog Number	
Flush, nylon face, back and side wired.	Black	<b>HBL5252BK</b>	<b>HBL5352BK</b>
	Blue	-	<b>HBL5352BL</b>
	Brown	<b>HBL5252</b>	<b>HBL5352</b>
	Gray	<b>HBL5252GY</b>	<b>HBL5352GY</b>
	Ivory	<b>HBL5252I</b>	<b>HBL5352I</b>
	Red	<b>HBL5252R</b>	<b>HBL5352R</b>
	White	<b>HBL5252W</b>	<b>HBL5352W</b>
	On a 4 in. (101.6) round cover.	Brown	<b>HBL5253</b>
Flush, nylon face, side wired only.	Brown	<b>HBL5242</b>	<b>HBL5342</b>
	Gray	<b>HBL5242GY</b>	<b>HBL5342GY</b>
	Ivory	<b>HBL5242I</b>	<b>HBL5342I</b>
	White	<b>HBL5242W</b>	<b>HBL5342W</b>
Ring terminal connection.	Brown	<b>HBL5242RT</b>	<b>HBL5342RT</b>

#### Single

Description	Color	Catalog Number	
Flush, side wired only.	Brown	<b>HBL5251</b>	-
	Ivory	<b>HBL5251I</b>	-
Panel mount 1.75 in. (44.5) centers.	Brown	<b>HBL5258</b>	<b>HBL5358</b>
	Ivory	<b>HBL5258I</b>	-

### Style Line® Decorator\*

Description	Color	Catalog Number	
Flush, nylon face, back and side wired.	Almond	<b>HBL2152AL</b>	<b>HBL2162AL</b>
	Black	<b>HBL2152BK</b>	<b>HBL2162BK</b>
	Brown	<b>HBL2152</b>	<b>HBL2162</b>
	Gray	<b>HBL2152GY</b>	<b>HBL2162GY</b>
	Ivory	<b>HBL2152I</b>	<b>HBL2162I</b>
	Office White	<b>HBL2152OW</b>	<b>HBL2162OW</b>
	White	<b>HBL2152WA</b>	<b>HBL2162WA</b>
Isolated ground <sup>A</sup> .	Gray	-	<b>IG2162GY</b>
	Orange	<b>IG2152</b>	<b>IG2162</b>

Note: <sup>A</sup>See section M for additional information on isolated ground devices.

\*Style Line Duplex devices are not Fed. Spec. Listed.

See page A-46 for accessories.

See section N for wallplates.



# Straight Blade Devices



## 15 and 20 Ampere, 250 Volts



**15A 250V**  
NEMA 6-15R  
UL CSA  
1.5 HP



**20A 250V**  
NEMA 6-20R  
UL CSA  
2 HP

### HBL® Extra Heavy Duty, Specification Grade Receptacles

#### Duplex

Description	Color	Catalog Number	
Flush, nylon face, back and side wired, multiple drive screws.	Black	-	<b>HBL5462BK</b>
	Brown	<b>HBL5662</b>	<b>HBL5462</b>
	Gray	-	<b>HBL5462GY</b>
	Ivory	<b>HBL5662I</b>	<b>HBL5462I</b>
	Red	-	<b>HBL5462R</b>
Isolated ground <sup>A</sup> .	Orange	<b>IG5662</b>	<b>IG5462</b>

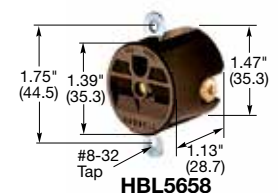
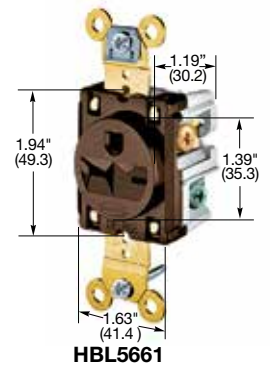
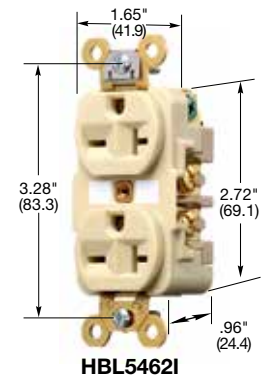
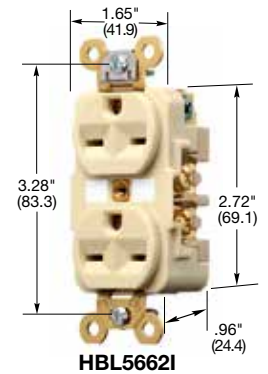
#### Single

Description	Color	Catalog Number	
Flush, nylon face, back and side wired.	Brown	<b>HBL5661</b>	<b>HBL5461</b>
	Gray	-	<b>HBL5461GY</b>
	Ivory	<b>HBL5661I</b>	<b>HBL5461I</b>
	Red	-	<b>HBL5461R</b>
	White	-	<b>HBL5461W</b>
Isolated ground <sup>A</sup> .	Orange	<b>IG5661</b>	<b>IG5461</b>
Panel mount 1.94 in. (49.3) centers.	Brown	<b>HBL5684</b>	-
Ring terminal connection.	Brown	<b>HBL5661RT</b>	-

#### Duplex and Single Panel Mount

Description	Color	Catalog Number	
Flush, nylon duplex face, side wired only.	Brown	<b>HBL5652</b>	-
	Ivory	<b>HBL5652I</b>	-
Panel mount 1.75 in. (44.5) centers.	Brown	<b>HBL5658</b>	-

Note: <sup>A</sup>See section M for additional information on isolated ground devices.  
HP ratings are AC only.  
See page A-46 for accessories.

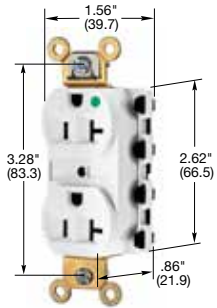


Dimensions in Inches (mm)

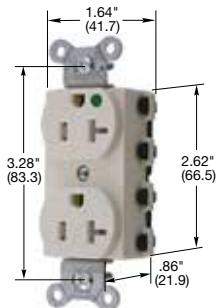
# Straight Blade Devices



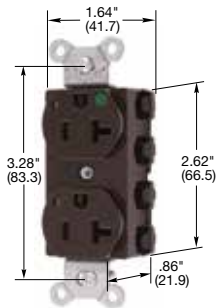
15 and 20 Ampere, 125 Volts



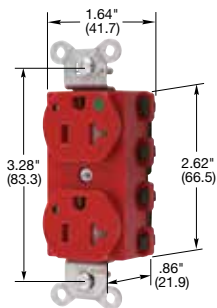
SNAP8300WA



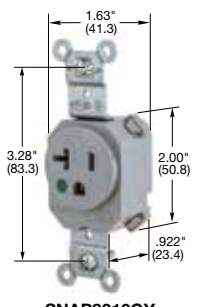
SNAP8300LATRA



SNAP8300L



SNAP8300RLTRA



SNAP8310GY

Dimensions in Inches (mm)

**IP20**  
SUITABILITY



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP

## Extra Heavy Duty Hospital Grade ● SNAPConnect®

### Duplex

Description	Color	Catalog Number	Catalog Number	
Hospital grade, finder groove, nylon face, modular receptacle which requires pigtailed connector on page A-15.	Black	SNAP8200BKA	SNAP8300BKA	
	Brown	SNAP8200A	SNAP8300A	
	Gray	SNAP8200GYA	SNAP8300GYA	
	Ivory	SNAP8200IA	SNAP8300IA	
	Light Almond	SNAP8200LAA	SNAP8300LAA	
	Red	SNAP8200RA	SNAP8300RA	
Hospital grade, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	SNAP8200BKNA	SNAP8300BKNA	
	Brown	SNAP8200NA	SNAP8300NA	
	Gray	SNAP8200GYNA	SNAP8300GYNA	
	Ivory	SNAP8200INA	SNAP8300INA	
	Light Almond	SNAP8200LANA	SNAP8300LANA	
	Red	SNAP8200RNA	SNAP8300RNA	
Hospital grade, Tamper-Resistant, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	SNAP8200BKTRA	SNAP8300BKTRA	
	Brown	SNAP8200TRA	SNAP8300TRA	
	Gray	SNAP8200GYTRA	SNAP8300GYTRA	
	Ivory	SNAP8200ITRA	SNAP8300ITRA	
	Light Almond	SNAP8200LATRA	SNAP8300LATRA	
	Red	SNAP8200RTRA	SNAP8300RTRA	
Hospital grade, Tamper-Resistant, Split Circuit, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	SNAP8200BKSCTRA	SNAP8300BKSCTRA	
	Brown	SNAP8200SCTRA	SNAP8300SCTRA	
	Gray	SNAP8200GYSCTRA	SNAP8300GYSCTRA	
	Ivory	SNAP8200ISCTRA	SNAP8300ISCTRA	
	Light Almond	SNAP8200LASCTRA	SNAP8300LASCTRA	
	Red	SNAP8200RSCTRA	SNAP8300RSCTRA	
Isolated ground <sup>4</sup> , Hospital grade, Tamper-Resistant.	Orange	SNAP8200IGTRA	SNAP8300IGTRA	
	Red	SNAP8200RIGTRA	SNAP8300RIGTRA	
	Hospital grade, with Power Indicating LED, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	SNAP8200BKL	SNAP8300BKL
		Brown	SNAP8200L	SNAP8300L
		Gray	SNAP8200GYL	SNAP8300GYL
		Ivory	SNAP8200IL	SNAP8300IL
Light Almond		SNAP8200LAL	SNAP8300LAL	
Red		SNAP8200RL	SNAP8300RL	
Isolated ground <sup>4</sup> , Hospital grade, with Power Indicating LED.	Orange	SNAP8200IGL	SNAP8300IGL	
	Red	SNAP8200RIGL	SNAP8300RIGL	
	Hospital grade, Tamper-Resistant, with Power Indicating LED, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	SNAP8200BKLTRA	SNAP8300BKLTRA
		Brown	SNAP8200LTRA	SNAP8300LTRA
		Gray	SNAP8200GYLTRA	SNAP8300GYLTRA
		Ivory	SNAP8200ILTRA	SNAP8300ILTRA
Light Almond		SNAP8200LALTRA	SNAP8300LALTRA	
Red		SNAP8200RLTRA	SNAP8300RLTRA	
Isolated ground <sup>4</sup> , Hospital grade, TR with Power Indicating LED.	Orange	SNAP8200IGLTRA	SNAP8300IGLTRA	
	Red	SNAP8200RIGLTRA	SNAP8300RIGLTRA	

## SNAPConnect® Extra Heavy Duty Hospital Grade Duplex Receptacles

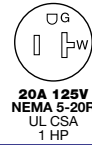
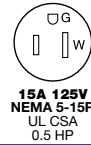
Color	Hospital Grade ●		Hospital Grade ● Tamper-Resistant	
	15A 125V	20A 125V	15A 125V	20A 125V
Almond	SNAP8210AL	SNAP8310AL	SNAP8210ALTR	SNAP8310ALTR
Black	SNAP8210BK	SNAP8310BK	SNAP8210BKTR	SNAP8310BKTR
Blue	SNAP8210BL	SNAP8310BL	SNAP8210BLTR	SNAP8310BLTR
Brown	SNAP8210	SNAP8310	SNAP8210TR	SNAP8310TR
Gray	SNAP8210GY	SNAP8310GY	SNAP8210GYTR	SNAP8310GYTR
Ivory	SNAP8210I	SNAP8310I	SNAP8210ITR	SNAP8310ITR
Light Almond	SNAP8210LA	SNAP8310LA	SNAP8210LATR	SNAP8310LATR
Red	SNAP8210R	SNAP8310R	SNAP8210RTR	SNAP8310RTR
White	SNAP8210W	SNAP8310W	SNAP8210WTR	SNAP8310WTR

# Straight Blade Devices



15 and 20 Ampere, 125 Volts

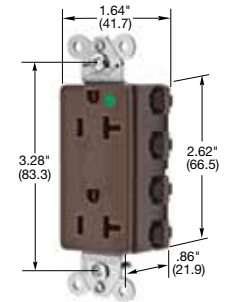
**IP20**  
SUITABILITY



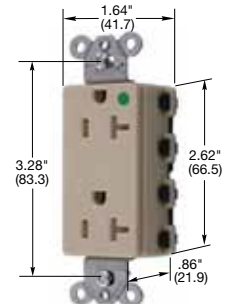
**Extra Heavy Duty  
Hospital Grade ●+ SNAPConnect®**

## Style Line® Decorator

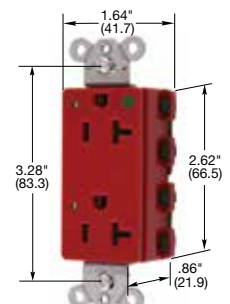
Description	Color	Catalog Number	
Hospital grade, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15.	Black	<b>SNAP2172BKA</b>	<b>SNAP2182BKA</b>
	Brown	<b>SNAP2172A</b>	<b>SNAP2182A</b>
	Gray	<b>SNAP2172GYA</b>	<b>SNAP2182GYA</b>
	Ivory	<b>SNAP2172IA</b>	<b>SNAP2182IA</b>
	Light Almond	<b>SNAP2172LAA</b>	<b>SNAP2182LAA</b>
	Red	<b>SNAP2172RA</b>	<b>SNAP2182RA</b>
Hospital grade, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	White	<b>SNAP2172WA</b>	<b>SNAP2182WA</b>
	Black	<b>SNAP2172BKNA</b>	<b>SNAP2182BKNA</b>
	Brown	<b>SNAP2172NA</b>	<b>SNAP2182NA</b>
	Gray	<b>SNAP2172GYNA</b>	<b>SNAP2182GYNA</b>
	Ivory	<b>SNAP2172INA</b>	<b>SNAP2182INA</b>
	Light Almond	<b>SNAP2172LANA</b>	<b>SNAP2182LANA</b>
Hospital grade, Tamper-Resistant, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Red	<b>SNAP2172RNA</b>	<b>SNAP2182RNA</b>
	White	<b>SNAP2172WNA</b>	<b>SNAP2182WNA</b>
	Black	<b>SNAP2172BKTRA</b>	<b>SNAP2182BKTRA</b>
	Brown	<b>SNAP2172TRA</b>	<b>SNAP2182TRA</b>
	Gray	<b>SNAP2172GYTRA</b>	<b>SNAP2182GYTRA</b>
	Ivory	<b>SNAP2172ITRA</b>	<b>SNAP2182ITRA</b>
Hospital grade, Tamper-Resistant, Split Circuit, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Light Almond	<b>SNAP2172LATRA</b>	<b>SNAP2182LATRA</b>
	Red	<b>SNAP2172RTRA</b>	<b>SNAP2182RTRA</b>
	White	<b>SNAP2172WTRA</b>	<b>SNAP2182WTRA</b>
	Black	<b>SNAP2172BKSCTRA</b>	<b>SNAP2182BKSCTRA</b>
	Brown	<b>SNAP2172SCTRA</b>	<b>SNAP2182SCTRA</b>
	Gray	<b>SNAP2172GYSCTRA</b>	<b>SNAP2182GYSCTRA</b>
Hospital grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Ivory	<b>SNAP2172ISCTRA</b>	<b>SNAP2182ISCTRA</b>
	Light Almond	<b>SNAP2172LASCTRA</b>	<b>SNAP2182LASCTRA</b>
	Red	<b>SNAP2172RSCTRA</b>	<b>SNAP2182RSCTRA</b>
	White	<b>SNAP2172WSCTRA</b>	<b>SNAP2182WSCTRA</b>
	Orange	<b>SNAP2172IGTRA</b>	<b>SNAP2182IGTRA</b>
	Red	<b>SNAP2172RIGTRA</b>	<b>SNAP2182RIGTRA</b>
Hospital grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	<b>SNAP2172BKL</b>	<b>SNAP2182BKL</b>
	Brown	<b>SNAP2172L</b>	<b>SNAP2182L</b>
	Gray	<b>SNAP2172GYL</b>	<b>SNAP2182GYL</b>
	Ivory	<b>SNAP2172IL</b>	<b>SNAP2182IL</b>
	Light Almond	<b>SNAP2172LAL</b>	<b>SNAP2182LAL</b>
	Red	<b>SNAP2172RL</b>	<b>SNAP2182RL</b>
Hospital grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	White	<b>SNAP2172WL</b>	<b>SNAP2182WL</b>
	Orange	<b>SNAP2172IGL</b>	<b>SNAP2182IGL</b>
	Red	<b>SNAP2172RIGL</b>	<b>SNAP2182RIGL</b>
	Black	<b>SNAP2172BKLTRA</b>	<b>SNAP2182BKLTRA</b>
	Brown	<b>SNAP2172LTRA</b>	<b>SNAP2182LTRA</b>
	Gray	<b>SNAP2172GYLTRA</b>	<b>SNAP2182GYLTRA</b>
Hospital grade, Tamper-Resistant, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Ivory	<b>SNAP2172ILTRA</b>	<b>SNAP2182ILTRA</b>
	Light Almond	<b>SNAP2172LALTRA</b>	<b>SNAP2182LALTRA</b>
	Red	<b>SNAP2172RLTRA</b>	<b>SNAP2182RLTRA</b>
	White	<b>SNAP2172WLTRA</b>	<b>SNAP2182WLTRA</b>
	Orange	<b>SNAP2172IGLTRA</b>	<b>SNAP2182IGLTRA</b>
	Red	<b>SNAP2172RIGLTRA</b>	<b>SNAP2182RIGLTRA</b>



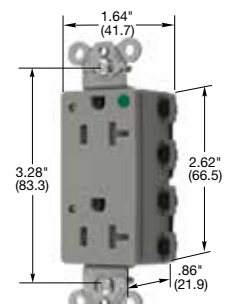
SNAP2182A



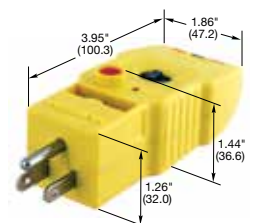
SNAP2182ITRA



SNAP2182RL



SNAP2182GYLTRA



SNAPCTG

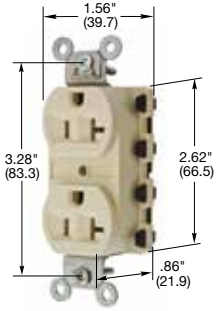
Dimensions in Inches (mm)

Note: <sup>A</sup>See section M additional information on isolated ground devices and section N for wallplates.  
See page A-5 for additional information on SNAPConnect features and page A-16 for SNAPConnect pigtailed connectors.  
See page Tech-10 for Tamper-Resistant and LED Power Indicators descriptions.  
See pages A-50 and A-51 for accessories.

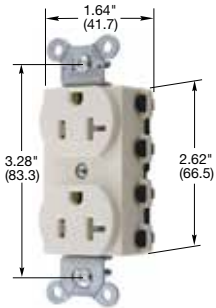
## SNAPConnect® Tester

Description	Catalog Number
Circuit Tester for SNAPConnect receptacle terminals, GFCI and standard receptacles	<b>SNAPCTG</b>

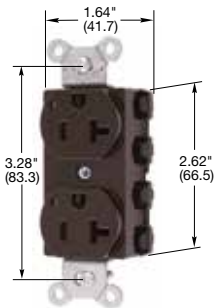
## 15 and 20 Ampere, 125 Volts



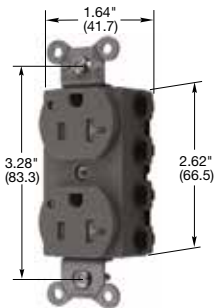
**SNAP53621A**



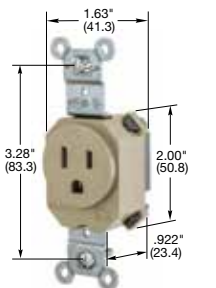
**SNAP5362LATRA**



**SNAP5362L**



**SNAP5362GYLTRA**



**SNAP52611**

Dimensions in Inches (mm)

### Extra Heavy Duty SNAPConnect® Receptacles

#### Duplex

Description	Color	Catalog Number	Catalog Number	
Specification grade, finder groove, nylon face, modular receptacle which requires pigtailed connector on page A-15.	Black	<b>SNAP5262BKA</b>	<b>SNAP5362BKA</b>	
	Brown	<b>SNAP5262A</b>	<b>SNAP5362A</b>	
	Gray	<b>SNAP5262GYA</b>	<b>SNAP5362GYA</b>	
	Ivory	<b>SNAP5262IA</b>	<b>SNAP5362IA</b>	
	Light Almond	<b>SNAP5262LAA</b>	<b>SNAP5362LAA</b>	
	Red	<b>SNAP5262RA</b>	<b>SNAP5362RA</b>	
Specification grade, smooth, nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	<b>SNAP5262BKNA</b>	<b>SNAP5362BKNA</b>	
	Brown	<b>SNAP5262NA</b>	<b>SNAP5362NA</b>	
	Gray	<b>SNAP5262GYNA</b>	<b>SNAP5362GYNA</b>	
	Ivory	<b>SNAP5262INA</b>	<b>SNAP5362INA</b>	
	Light Almond	<b>SNAP5262LANA</b>	<b>SNAP5362LANA</b>	
	Red	<b>SNAP5262RNA</b>	<b>SNAP5362RNA</b>	
Specification grade, Tamper-Resistant, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	<b>SNAP5262BKTRA</b>	<b>SNAP5362BKTRA</b>	
	Blue	<b>SNAP5262BLTRA</b>	<b>SNAP5362BLTRA</b>	
	Brown	<b>SNAP5262TRA</b>	<b>SNAP5362TRA</b>	
	Gray	<b>SNAP5262GYTRA</b>	<b>SNAP5362GYTRA</b>	
	Ivory	<b>SNAP5262ITRA</b>	<b>SNAP5362ITRA</b>	
	Light Almond	<b>SNAP5262LATRA</b>	<b>SNAP5362LATRA</b>	
Specification grade, Tamper-Resistant, Split Circuit, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	<b>SNAP5262BKSCTRA</b>	<b>SNAP5362BKSCTRA</b>	
	Blue	<b>SNAP5262BLSCTRA</b>	<b>SNAP5362BLSCTRA</b>	
	Brown	<b>SNAP5262SCTRA</b>	<b>SNAP5362SCTRA</b>	
	Gray	<b>SNAP5262GYSCTRA</b>	<b>SNAP5362GYSCTRA</b>	
	Ivory	<b>SNAP5262ISCTRA</b>	<b>SNAP5362ISCTRA</b>	
	Light Almond	<b>SNAP5262LASCTRA</b>	<b>SNAP5362LASCTRA</b>	
Isolated ground <sup>A</sup> , Specification grade, Tamper-Resistant.	Red	<b>SNAP5262RSCTRA</b>	<b>SNAP5362RSCTRA</b>	
	White	<b>SNAP5262WSCTRA</b>	<b>SNAP5362WSCTRA</b>	
	Orange	<b>SNAP5262IGTRA</b>	<b>SNAP5362IGTRA</b>	
	Specification grade, with Power Indicating LED, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	<b>SNAP5262BKL</b>	<b>SNAP5362BKL</b>
		Blue	<b>SNAP5262BLL</b>	<b>SNAP5362BLL</b>
		Brown	<b>SNAP5262L</b>	<b>SNAP5362L</b>
Gray		<b>SNAP5262GYL</b>	<b>SNAP5362GYL</b>	
Ivory		<b>SNAP5262IL</b>	<b>SNAP5362IL</b>	
Light Almond		<b>SNAP5262LAL</b>	<b>SNAP5362LAL</b>	
Isolated ground <sup>A</sup> , Specification grade, with Power Indicating LED.	Red	<b>SNAP5262RL</b>	<b>SNAP5362RL</b>	
	White	<b>SNAP5262WL</b>	<b>SNAP5362WL</b>	
	Orange	<b>SNAP5262IGL</b>	<b>SNAP5362IGL</b>	
	Specification grade, Tamper-Resistant, with Power Indicating LED, smooth nylon face, modular receptacle which requires pigtailed connector on page A-15. Assembled in USA.	Black	<b>SNAP5262BKLTRA</b>	<b>SNAP5362BKLTRA</b>
		Blue	<b>SNAP5262BLLTRA</b>	<b>SNAP5362BLLTRA</b>
		Brown	<b>SNAP5262LTRA</b>	<b>SNAP5362LTRA</b>
Gray		<b>SNAP5262GYLTRA</b>	<b>SNAP5362GYLTRA</b>	
Ivory		<b>SNAP5262ILTRA</b>	<b>SNAP5362ILTRA</b>	
Light Almond		<b>SNAP5262LALTRA</b>	<b>SNAP5362LALTRA</b>	
Isolated ground <sup>A</sup> , Specification grade, TR with Power Indicating LED.	Red	<b>SNAP5262RLTRA</b>	<b>SNAP5362RLTRA</b>	
	White	<b>SNAP5262WLTRA</b>	<b>SNAP5362WLTRA</b>	
	Orange	<b>SNAP5262IGLTRA</b>	<b>SNAP5362IGLTRA</b>	

### SNAPConnect® Extra Heavy Duty Standard Duplex Receptacles

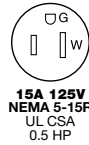
Color	Standard Duplex		Standard Duplex Tamper-Resistant	
	15A 125V	20A 125V	15A 125V	20A 125V
Almond	<b>SNAP5261AL</b>	<b>SNAP5361AL</b>	<b>SNAP5261ALTR</b>	<b>SNAP5361ALTR</b>
Black	<b>SNAP5261BK</b>	<b>SNAP5361BK</b>	<b>SNAP5261BKTR</b>	<b>SNAP5361BKTR</b>
Blue	<b>SNAP5261BL</b>	<b>SNAP5361BL</b>	<b>SNAP5261BLTR</b>	<b>SNAP5361BLTR</b>
Brown	<b>SNAP5261</b>	<b>SNAP5361</b>	<b>SNAP5261TR</b>	<b>SNAP5361TR</b>
Gray	<b>SNAP5261GY</b>	<b>SNAP5361GY</b>	<b>SNAP5261GYTR</b>	<b>SNAP5361GYTR</b>
Ivory	<b>SNAP5261I</b>	<b>SNAP5361I</b>	<b>SNAP5261ITR</b>	<b>SNAP5361ITR</b>
Light Almond	<b>SNAP5261LA</b>	<b>SNAP5361LA</b>	<b>SNAP5261LATR</b>	<b>SNAP5361LATR</b>
Red	<b>SNAP5261R</b>	<b>SNAP5361R</b>	<b>SNAP5261RTR</b>	<b>SNAP5361RTR</b>
White	<b>SNAP5261W</b>	<b>SNAP5361W</b>	<b>SNAP5261WTR</b>	<b>SNAP5361WTR</b>



# Straight Blade Devices



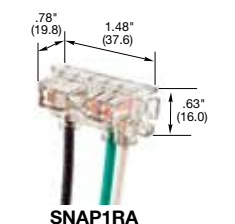
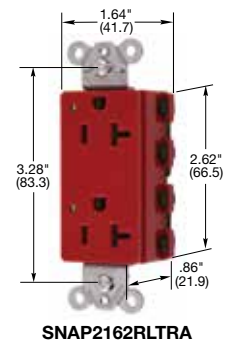
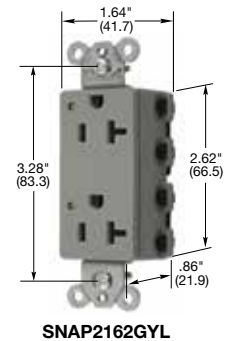
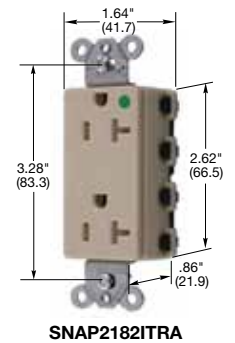
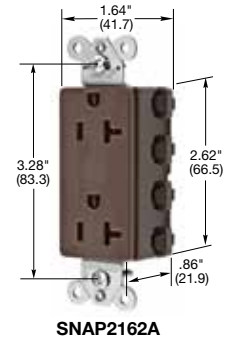
15 and 20 Ampere, 125 Volts



## Extra Heavy Duty SNAPConnect® Receptacles

### Style Line® Decorator

Description	Color	Catalog Number	Catalog Number
Specification grade, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below.	Black	<b>SNAP2152BKA</b>	<b>SNAP2162BKA</b>
	Brown	<b>SNAP2152A</b>	<b>SNAP2162A</b>
	Gray	<b>SNAP2152GYA</b>	<b>SNAP2162GYA</b>
	Ivory	<b>SNAP2152IA</b>	<b>SNAP2162IA</b>
	Light Almond	<b>SNAP2152LAA</b>	<b>SNAP2162LAA</b>
	Red	<b>SNAP2152RA</b>	<b>SNAP2162RA</b>
Specification grade, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	White	<b>SNAP2152WA</b>	<b>SNAP2162WA</b>
	Black	<b>SNAP2152BKNA</b>	<b>SNAP2162BKNA</b>
	Brown	<b>SNAP2152NA</b>	<b>SNAP2162NA</b>
	Gray	<b>SNAP2152GYNA</b>	<b>SNAP2162GYNA</b>
	Ivory	<b>SNAP2152INA</b>	<b>SNAP2162INA</b>
	Light Almond	<b>SNAP2152LANA</b>	<b>SNAP2162LANA</b>
Specification grade, Tamper-Resistant, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Red	<b>SNAP2152RNA</b>	<b>SNAP2162RNA</b>
	White	<b>SNAP2152WNA</b>	<b>SNAP2162WNA</b>
	Black	<b>SNAP2152BKTRA</b>	<b>SNAP2162BKTRA</b>
	Blue	<b>SNAP2152BLTRA</b>	<b>SNAP2162BLTRA</b>
	Brown	<b>SNAP2152TRA</b>	<b>SNAP2162TRA</b>
	Gray	<b>SNAP2152GYTRA</b>	<b>SNAP2162GYTRA</b>
Specification grade, Tamper-Resistant, Split Circuit, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Ivory	<b>SNAP2152ITRA</b>	<b>SNAP2162ITRA</b>
	Light Almond	<b>SNAP2152LATRA</b>	<b>SNAP2162LATRA</b>
	Red	<b>SNAP2152RTRA</b>	<b>SNAP2162RTRA</b>
	White	<b>SNAP2152WTRA</b>	<b>SNAP2162WTRA</b>
	Black	<b>SNAP2152BKSCTRA</b>	<b>SNAP2162BKSCTRA</b>
	Blue	<b>SNAP2152BLSCTRA</b>	<b>SNAP2162BLSCTRA</b>
Isolated ground <sup>A</sup> , Specification grade, Tamper-Resistant.	Brown	<b>SNAP2152SCTRA</b>	<b>SNAP2162SCTRA</b>
	Gray	<b>SNAP2152GYSCTRA</b>	<b>SNAP2162GYSCTRA</b>
	Ivory	<b>SNAP2152ISCTRA</b>	<b>SNAP2162ISCTRA</b>
	Light Almond	<b>SNAP2152LASCTRA</b>	<b>SNAP2162LASCTRA</b>
	Red	<b>SNAP2152RSCTRA</b>	<b>SNAP2162RSCTRA</b>
	White	<b>SNAP2152WSCTRA</b>	<b>SNAP2162WSCTRA</b>
Specification grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Orange	<b>SNAP2152IGTRA</b>	<b>SNAP2162IGTRA</b>
	Black	<b>SNAP2152BKL</b>	<b>SNAP2162BKL</b>
	Blue	<b>SNAP2152BLL</b>	<b>SNAP2162BLL</b>
	Brown	<b>SNAP2152L</b>	<b>SNAP2162L</b>
	Gray	<b>SNAP2152GYL</b>	<b>SNAP2162GYL</b>
	Ivory	<b>SNAP2152IL</b>	<b>SNAP2162IL</b>
Isolated ground <sup>A</sup> , Specification grade, with Power Indicating LED.	Light Almond	<b>SNAP2152LAL</b>	<b>SNAP2162LAL</b>
	Red	<b>SNAP2152RL</b>	<b>SNAP2162RL</b>
	White	<b>SNAP2152WL</b>	<b>SNAP2162WL</b>
	Black	<b>SNAP2152BKLTRA</b>	<b>SNAP2162BKLTRA</b>
	Blue	<b>SNAP2152BLLTRA</b>	<b>SNAP2162BLLTRA</b>
	Brown	<b>SNAP2152LTRA</b>	<b>SNAP2162LTRA</b>
Specification grade, Tamper-Resistant, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Gray	<b>SNAP2152GYLTRA</b>	<b>SNAP2162GYLTRA</b>
	Ivory	<b>SNAP2152ILTRA</b>	<b>SNAP2162ILTRA</b>
	Light Almond	<b>SNAP2152LALTRA</b>	<b>SNAP2162LALTRA</b>
	Red	<b>SNAP2152RLTRA</b>	<b>SNAP2162RLTRA</b>
	White	<b>SNAP2152WLTRA</b>	<b>SNAP2162WLTRA</b>
	Orange	<b>SNAP2152IGLTRA</b>	<b>SNAP2162IGLTRA</b>



Note: <sup>A</sup>See section M additional information on isolated ground devices.  
See page Tech-10 for Tamper-Resistant and LED Power Indicators descriptions.  
See pages A-50 and A-51 for accessories.  
See section N for wallplates.

## SNAPConnect® Right Angle Pigtailed Connector

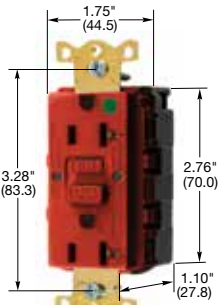
Description	Wire Type	General Use	Assembled in USA
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2; Polycarbonate housing material.	Solid	<b>SNAP1RA</b>	<b>SNAP1RNA</b>
	Stranded	<b>SNAP2RA</b>	<b>SNAP2RNA</b>

Note: For Assembled in USA products, must order connector with NA suffix.

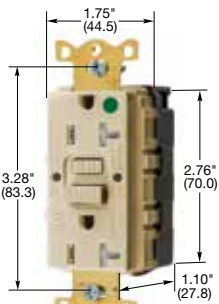
Dimensions in Inches (mm)

# Straight Blade Devices

15 and 20 Ampere, 125 Volts



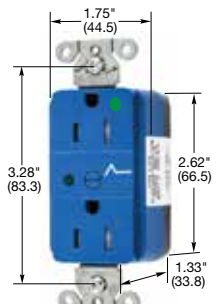
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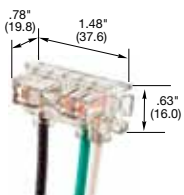
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SNAP8300USBW

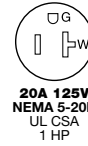


SNAP8262S



SNAP1RA

Dimensions in Inches (mm)



## SNAPConnect® GFCI LED Hospital Grade ●

Description	Color	Catalog Number	
Hospital Grade SNAPConnect GFCI LED, self-grounding staple, requires connector below, sold separately. Add "NA" suffix for devices Assembled in USA.	Almond	<b>GFRST82SNAPAL</b>	<b>GFRST83SNAPAL</b>
	Black	<b>GFRST82SNAPBK</b>	<b>GFRST83SNAPBK</b>
	Brown	<b>GFRST82SNAP</b>	<b>GFRST83SNAP</b>
	Gray	<b>GFRST82SNAPGY</b>	<b>GFRST83SNAPGY</b>
	Ivory	<b>GFRST82SNAPI</b>	<b>GFRST83SNAPI</b>
	Light Almond	<b>GFRST82SNAPLA</b>	<b>GFRST83SNAPLA</b>
	Red	<b>GFRST82SNAPR</b>	<b>GFRST83SNAPR</b>
	White	<b>GFRST82SNAPW</b>	<b>GFRST83SNAPW</b>

## SNAPConnect® GFCI LED Hospital Grade ●, Tamper and Weather Resistant



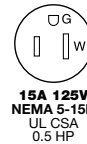
Description	Color	Catalog Number	
Hospital Grade SNAPConnect GFCI TR/WR, self-grounding staple, requires connector below, sold separately. Add "NA" suffix for devices Assembled in USA.	Almond	<b>GFTWRST82SNAPAL</b>	<b>GFTWRST83SNAPAL</b>
	Black	<b>GFTWRST82SNAPBK</b>	<b>GFTWRST83SNAPBK</b>
	Brown	<b>GFTWRST82SNAP</b>	<b>GFTWRST83SNAP</b>
	Gray	<b>GFTWRST82SNAPGY</b>	<b>GFTWRST83SNAPGY</b>
	Ivory	<b>GFTWRST82SNAPI</b>	<b>GFTWRST83SNAPI</b>
	Light Almond	<b>GFTWRST82SNAPLA</b>	<b>GFTWRST83SNAPLA</b>
	Red	<b>GFTWRST82SNAPR</b>	<b>GFTWRST83SNAPR</b>
	White	<b>GFTWRST82SNAPW</b>	<b>GFTWRST83SNAPW</b>



## SNAPConnect® USB Charger Hospital Grade ●, Duplex Receptacles



Description	Color	Catalog Number	
Hospital Grade SNAPConnect USB Charger, Tamper-Resistant Style Line® decorator duplex receptacle, two USB type 2.0 ports 3 Amp, 5 Volt DC, 15 or 20 Amp, 125 Volt AC.	Black	<b>SNAP8200USBBK</b>	<b>SNAP8300USBBK</b>
	Brown	<b>SNAP8200USB</b>	<b>SNAP8300USB</b>
	Gray	<b>SNAP8200USBGY</b>	<b>SNAP8300USBGY</b>
	Ivory	<b>SNAP8200USB I</b>	<b>SNAP8300USB I</b>
	Light Almond	<b>SNAP8200USBLA</b>	<b>SNAP8300USBLA</b>
	Red	<b>SNAP8200USBR</b>	<b>SNAP8300USBR</b>
	White	<b>SNAP8200USBW</b>	<b>SNAP8300USBW</b>



## SNAPConnect® Surge Protection Hospital Grade ●, Tamper-Resistant Receptacle with Power Indicating LED



Description	Color	Catalog Number	
Hospital Grade SNAPConnect Surge suppression, Tamper-Resistant, smooth face, duplex receptacle.	Blue	<b>SNAP8262S</b>	<b>SNAP8362S</b>
	Gray	<b>SNAP8262GYS</b>	<b>SNAP8362GYS</b>
	Ivory	<b>SNAP8262IS</b>	<b>SNAP8362IS</b>
	Light Almond	<b>SNAP8262LAS</b>	<b>SNAP8362LAS</b>
	Red	<b>SNAP8262RS</b>	<b>SNAP8362RS</b>
	White	<b>SNAP8262WS</b>	<b>SNAP8362WS</b>

## SNAPConnect® Right Angle Pigtailed Terminal

Description	Wire Type	General Use Catalog Number	Assembled in USA Catalog Number
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2; Polycarbonate housing material.	Solid	<b>SNAP1RA</b>	<b>SNAP1RNA</b>
	Stranded	<b>SNAP2RA</b>	<b>SNAP2RNA</b>

Note: See page Tech-10 for Tamper-Resistant, Weather Resistant and LED Power Indicators descriptions.

# Straight Blade Devices

15 and 20 Ampere, 125 Volts



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP

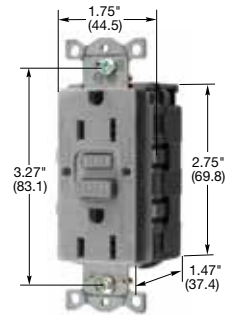


20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



## SNAPConnect® GFCI LED

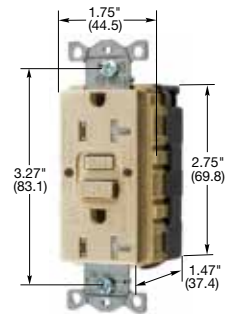
Description	Color	Catalog Number	
SNAPConnect GFCI LED, self-grounding staple, requires connector below, sold separately. Add "NA" suffix for devices Assembled in USA.	Almond	<b>GFRST15SNAPAL</b>	<b>GFRST20SNAPAL</b>
	Black	<b>GFRST15SNAPBK</b>	<b>GFRST20SNAPBK</b>
	Brown	<b>GFRST15SNAP</b>	<b>GFRST20SNAP</b>
	Gray	<b>GFRST15SNAPGY</b>	<b>GFRST20SNAPGY</b>
	Ivory	<b>GFRST15SNAPI</b>	<b>GFRST20SNAPI</b>
	Light Almond	<b>GFRST15SNAPLA</b>	<b>GFRST20SNAPLA</b>
	Red	<b>GFRST15SNAPR</b>	<b>GFRST20SNAPR</b>
	White	<b>GFRST15SNAPW</b>	<b>GFRST20SNAPW</b>



GFRST15SNAPGY

## SNAPConnect® GFCI LED, Tamper and Weather Resistant

Description	Color	Catalog Number	
SNAPConnect GFCI TR/WR, self-grounding staple, requires connector below, sold separately. Add "NA" suffix for devices Assembled in USA.	Almond	<b>GFTWRST15SNAPAL</b>	<b>GFTWRST20SNAPAL</b>
	Black	<b>GFTWRST15SNAPBK</b>	<b>GFTWRST20SNAPBK</b>
	Brown	<b>GFTWRST15SNAP</b>	<b>GFTWRST20SNAP</b>
	Gray	<b>GFTWRST15SNAPGY</b>	<b>GFTWRST20SNAPGY</b>
	Ivory	<b>GFTWRST15SNAPI</b>	<b>GFTWRST20SNAPI</b>
	Light Almond	<b>GFTWRST15SNAPLA</b>	<b>GFTWRST20SNAPLA</b>
	Red	<b>GFTWRST15SNAPR</b>	<b>GFTWRST20SNAPR</b>
	White	<b>GFTWRST15SNAPW</b>	<b>GFTWRST20SNAPW</b>



GFTWRST20SNAPI

## SNAPConnect® USB Charger, Duplex Receptacles

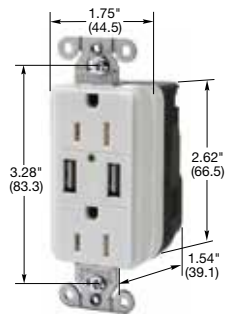
Description	Color	Catalog Number	
SNAPConnect USB Charger, Tamper-Resistant Style Line® decorator duplex receptacle, two USB type 2.0 ports 3 Amp, 5 Volt DC, 15 or 20 Amp, 125 Volt AC.	Black	<b>SNAP15USBBK</b>	<b>SNAP20USBBK</b>
	Brown	<b>SNAP15USB</b>	<b>SNAP20USB</b>
	Gray	<b>SNAP15USBGY</b>	<b>SNAP20USBGY</b>
	Ivory	<b>SNAP15USBI</b>	<b>SNAP20USBI</b>
	Light Almond	<b>SNAP15USBLA</b>	<b>SNAP20USBLA</b>
	White	<b>SNAP15USBW</b>	<b>SNAP20USBW</b>



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



SNAP15USBW

## SNAPConnect® Surge Protection, Tamper-Resistant Receptacle with Power Indicating LED

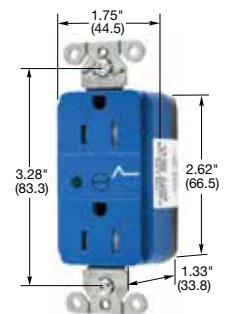
Description	Color	Catalog Number	
SNAPConnect Surge suppression, Tamper-Resistant, smooth face, duplex receptacle.	Blue	<b>SNAP5262S</b>	<b>SNAP5362S</b>
	Gray	<b>SNAP5262GYS</b>	<b>SNAP5362GYS</b>
	Ivory	<b>SNAP5262IS</b>	<b>SNAP5362IS</b>
	Light Almond	<b>SNAP5262LAS</b>	<b>SNAP5362LAS</b>
	White	<b>SNAP5262WS</b>	<b>SNAP5362WS</b>



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



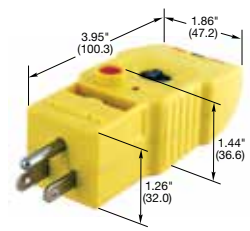
20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



SNAP5262S

## SNAPConnect® Tester

Description	Catalog Number
Circuit Tester for SNAPConnect receptacle terminals, GFCI and standard receptacles.	<b>SNAPCTG</b>



SNAPCTG

Dimensions in Inches (mm)

Note: See page Tech-10 for Tamper-Resistant, Weather Resistant and LED Power Indicators descriptions.

# Straight Blade Devices

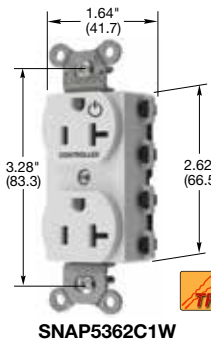


15 and 20 Ampere, 125 Volts



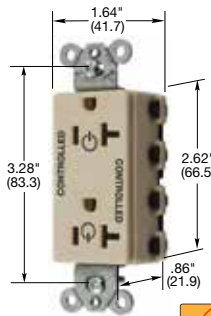
- Permanent power symbol remains clearly visible after installation
- Control both outlets per device for 100% controlled applications or just one outlet for 50% controlled applications
- Ideal for commercial buildings, retail, schools, hotel rooms
- Part of the Hubbell Load:Logic™ Plug Control system

## SNAPConnect® Permanently Marked Receptacles



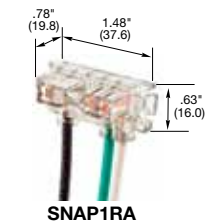
SNAP5362C1W

Duplex	Color	One Controlled Face Split Circuit Hot Tab		Two Controlled Faces		
		15 Amp	20 Amp	15 Amp	20 Amp	
SNAPConnect® standard duplex, permanently marked for use with automatic plugload controls.	Black	SNAP5262C1BK	SNAP5362C1BK	SNAP5262C2BK	SNAP5362C2BK	
	Blue	SNAP5262C1BL	SNAP5362C1BL	SNAP5262C2BL	SNAP5362C2BL	
	Brown	SNAP5262C1	SNAP5362C1	SNAP5262C2	SNAP5362C2	
	Gray	SNAP5262C1GY	SNAP5362C1GY	SNAP5262C2GY	SNAP5362C2GY	
	Green	SNAP5262C1GN	SNAP5362C1GN	SNAP5262C2GN	SNAP5362C2GN	
	Ivory	SNAP5262C1I	SNAP5362C1I	SNAP5262C2I	SNAP5362C2I	
	Lt. Almond	SNAP5262C1LA	SNAP5362C1LA	SNAP5262C2LA	SNAP5362C2LA	
	Red	SNAP5262C1R	SNAP5362C1R	SNAP5262C2R	SNAP5362C2R	
	White	SNAP5262C1W	SNAP5362C1W	SNAP5262C2W	SNAP5362C2W	
	SNAPConnect® Tamper-Resistant, standard duplex, permanently marked for use with automatic plugload controls.	Black	SNAP5262C1BKTRA	SNAP5362C1BKTRA	SNAP5262C2BKTRA	SNAP5362C2BKTRA
		Brown	SNAP5262C1TRA	SNAP5362C1TRA	SNAP5262C2TRA	SNAP5362C2TRA
Gray		SNAP5262C1GYTRA	SNAP5362C1GYTRA	SNAP5262C2GYTRA	SNAP5362C2GYTRA	
Green		SNAP5262C1GNTRA	SNAP5362C1GNTRA	SNAP5262C2GNTRA	SNAP5362C2GNTRA	
Ivory		SNAP5262C1ITRA	SNAP5362C1ITRA	SNAP5262C2ITRA	SNAP5362C2ITRA	
Lt. Almond		SNAP5262C1LATRA	SNAP5362C1LATRA	SNAP5262C2LATRA	SNAP5362C2LATRA	
White		SNAP5262C1WTRA	SNAP5362C1WTRA	SNAP5262C2WTRA	SNAP5362C2WTRA	



SNAP2162C2I

Style Line® Decorator		One Controlled Face Split Circuit Hot Tab		Two Controlled Faces		
Decorator Duplex	Color	15 Amp	20 Amp	15 Amp	20 Amp	
SNAPConnect® decorator duplex, permanently marked for use with automatic plugload controls.	Black	SNAP2152C1BK	SNAP2162C1BK	SNAP2152C2BK	SNAP2162C2BK	
	Blue	SNAP2152C1BL	SNAP2162C1BL	SNAP2152C2BL	SNAP2162C2BL	
	Brown	SNAP2152C1	SNAP2162C1	SNAP2152C2	SNAP2162C2	
	Gray	SNAP2152C1GY	SNAP2162C1GY	SNAP2152C2GY	SNAP2162C2GY	
	Green	SNAP2152C1GN	SNAP2162C1GN	SNAP2152C2GN	SNAP2162C2GN	
	Ivory	SNAP2152C1I	SNAP2162C1I	SNAP2152C2I	SNAP2162C2I	
	Lt. Almond	SNAP2152C1LA	SNAP2162C1LA	SNAP2152C2LA	SNAP2162C2LA	
	Red	SNAP2152C1R	SNAP2162C1R	SNAP2152C2R	SNAP2162C2R	
	White	SNAP2152C1W	SNAP2162C1W	SNAP2152C2W	SNAP2162C2W	
	SNAPConnect® Tamper-Resistant, decorator duplex, permanently marked for use with automatic plugload controls.	Black	SNAP2152C1BKTRA	SNAP2162C1BKTRA	SNAP2152C2BKTRA	SNAP2162C2BKTRA
		Brown	SNAP2152C1TRA	SNAP2162C1TRA	SNAP2152C2TRA	SNAP2162C2TRA
Gray		SNAP2152C1GYTRA	SNAP2162C1GYTRA	SNAP2152C2GYTRA	SNAP2162C2GYTRA	
Green		SNAP2152C1GNTRA	SNAP2162C1GNTRA	SNAP2152C2GNTRA	SNAP2162C2GNTRA	
Ivory		SNAP2152C1ITRA	SNAP2162C1ITRA	SNAP2152C2ITRA	SNAP2162C2ITRA	
Lt. Almond		SNAP2152C1LATRA	SNAP2162C1LATRA	SNAP2152C2LATRA	SNAP2162C2LATRA	
White		SNAP2152C1WTRA	SNAP2162C1WTRA	SNAP2152C2WTRA	SNAP2162C2WTRA	



SNAP1RA

## SNAPConnect® Right Angle Pigtailed Connector

Description	Solid Wire	Stranded Wire
Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2; Polycarbonate housing material.	SNAP1RA	SNAP2RA

## Permanent Controlled Receptacle Label

Description	Catalog Number
For use in retrofit applications where indication of a controlled receptacle is required. This label is UL approved for marking and labeling. 60 labels of each per pack.	CL60

Dimensions in Inches (mm)



# Straight Blade Devices

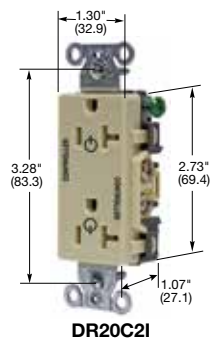
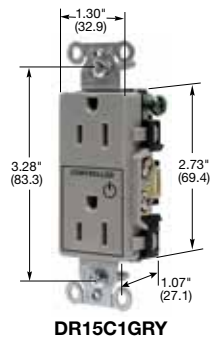
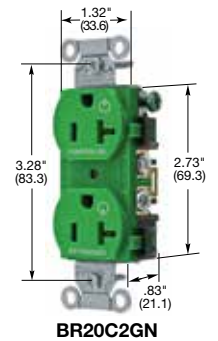
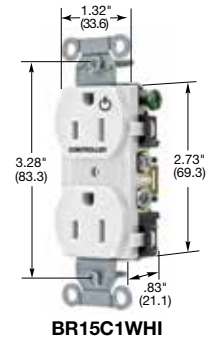
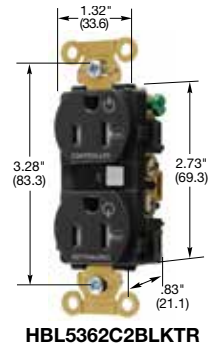


15 and 20 Ampere, 125 Volts

## Industrial Grade, Permanently Marked Tamper-Resistant Receptacles



Duplex	Color	One Controlled Face Split Circuit Hot Tab		Two Controlled Faces	
		15 Amp	20 Amp	15 Amp	20 Amp
Smooth nylon face, duplex, permanently marked for use with automatic outlet control systems, back and side wired.	Black	HBL5262C1BLKTR	HBL5362C1BLKTR	HBL5262C2BLKTR	HBL5362C2BLKTR
	Blue	HBL5262C1BLTR	HBL5362C1BLTR	HBL5262C2BLTR	HBL5362C2BLTR
	Brown	HBL5262C1TR	HBL5362C1TR	HBL5262C2TR	HBL5362C2TR
	Gray	HBL5262C1GRYTR	HBL5362C1GRYTR	HBL5262C2GRYTR	HBL5362C2GRYTR
	Ivory	HBL5262C1ITR	HBL5362C1ITR	HBL5262C2ITR	HBL5362C2ITR
	Lt. Almond	HBL5262C1LATR	HBL5362C1LATR	HBL5262C2LATR	HBL5362C2LATR
	Red	HBL5262C1RTR	HBL5362C1RTR	HBL5262C2RTR	HBL5362C2RTR
	White	HBL5262C1WHITR	HBL5362C1WHITR	HBL5262C2WHITR	HBL5362C2WHITR



## Permanently Marked Receptacles

Duplex	Color	One Controlled Face Split Circuit Hot Tab		Two Controlled Faces	
		15 Amp	20 Amp	15 Amp	20 Amp
Smooth nylon face, duplex, permanently marked for use with automatic outlet control systems, back and side wired.	Black	BR15C1BLK	BR20C1BLK	BR15C2BLK	BR20C2BLK
	Blue	BR15C1BL	BR20C1BL	BR15C2BL	BR20C2BL
	Brown	BR15C1	BR20C1	BR15C2	BR20C2
	Gray	BR15C1GRY	BR20C1GRY	BR15C2GRY	BR20C2GRY
	Green	BR15C1GN	BR20C1GN	BR15C2GN	BR20C2GN
	Ivory	BR15C1I	BR20C1I	BR15C2I	BR20C2I
	Lt. Almond	BR15C1LA	BR20C1LA	BR15C2LA	BR20C2LA
	Red	BR15C1R	BR20C1R	BR15C2R	BR20C2R
	White	BR15C1WHI	BR20C1WHI	BR15C2WHI	BR20C2WHI
	Smooth nylon face, Tamper-Resistant, duplex, permanently marked for use with automatic outlet control systems, back and side wired.	Black	BR15C1BLKTR	BR20C1BLKTR	BR15C2BLKTR
Blue		BR15C1BLTR	BR20C1BLTR	BR15C2BLTR	BR20C2BLTR
Brown		BR15C1TR	BR20C1TR	BR15C2TR	BR20C2TR
Gray		BR15C1GRYTR	BR20C1GRYTR	BR15C2GRYTR	BR20C2GRYTR
Green		BR15C1GNTR	BR20C1GNTR	BR15C2GNTR	BR20C2GNTR
Ivory		BR15C1ITR	BR20C1ITR	BR15C2ITR	BR20C2ITR
Lt. Almond		BR15C1LATR	BR20C1LATR	BR15C2LATR	BR20C2LATR
Red		BR15C1RTR	BR20C1RTR	BR15C2RTR	BR20C2RTR
White		BR15C1WHITR	BR20C1WHITR	BR15C2WHITR	BR20C2WHITR

## Style Line® Decorator

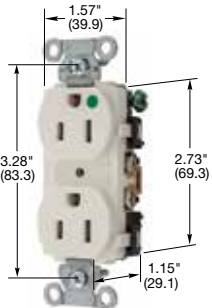
Smooth nylon face, decorator duplex, permanently marked for use with automatic outlet control systems, back and side wired.	Black	DR15C1BLK	DR20C1BLK	DR15C2BLK	DR20C2BLK
	Blue	DR15C1BL	DR20C1BL	DR15C2BL	DR20C2BL
	Brown	DR15C1	DR20C1	DR15C2	DR20C2
	Gray	DR15C1GRY	DR20C1GRY	DR15C2GRY	DR20C2GRY
	Green	DR15C1GN	DR20C1GN	DR15C2GN	DR20C2GN
	Ivory	DR15C1I	DR20C1I	DR15C2I	DR20C2I
	Lt. Almond	DR15C1LA	DR20C1LA	DR15C2LA	DR20C2LA
	Red	DR15C1R	DR20C1R	DR15C2R	DR20C2R
	White	DR15C1WHI	DR20C1WHI	DR15C2WHI	DR20C2WHI
	Smooth nylon face, Tamper-Resistant, decorator duplex, permanently marked for use with automatic outlet control systems, back and side wired.	Black	DR15C1BLKTR	DR20C1BLKTR	DR15C2BLKTR
Blue		DR15C1BLTR	DR20C1BLTR	DR15C2BLTR	DR20C2BLTR
Brown		DR15C1TR	DR20C1TR	DR15C2TR	DR20C2TR
Gray		DR15C1GRYTR	DR20C1GRYTR	DR15C2GRYTR	DR20C2GRYTR
Green		DR15C1GNTR	DR20C1GNTR	DR15C2GNTR	DR20C2GNTR
Ivory		DR15C1ITR	DR20C1ITR	DR15C2ITR	DR20C2ITR
Lt. Almond		DR15C1LATR	DR20C1LATR	DR15C2LATR	DR20C2LATR
Red		DR15C1RTR	DR20C1RTR	DR15C2RTR	DR20C2RTR
White		DR15C1WHITR	DR20C1WHITR	DR15C2WHITR	DR20C2WHITR

## Permanent Controlled Receptacle Label

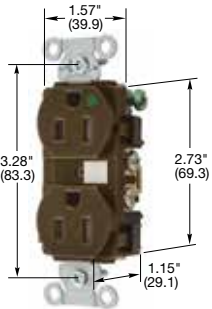
Description	Catalog Number
For use in retrofit applications where indication of a controlled receptacle is required. This label is UL approved for marking and labeling. 60 labels of each per pack.	CL60

Dimensions in Inches (mm)

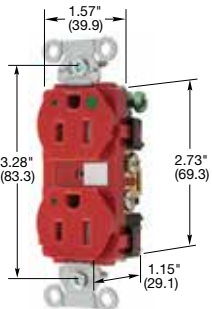
## 15 and 20 Ampere, 125 Volts



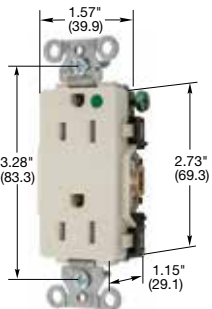
**8200LA**



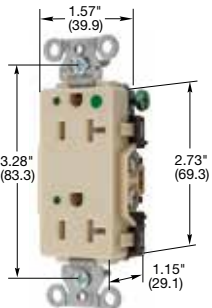
**8200TRA**



**8200REDLTRA**



**2172LATRA**



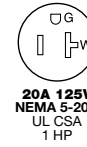
**2182IVLTRA**

Dimensions in Inches (mm)

### Hubbell-PRO Heavy Duty Hospital Grade Receptacles



**15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP**



**20A 125V  
NEMA 5-20R  
UL CSA  
1 HP**

#### Duplex

	Color	Catalog Number	
Hospital grade, smooth nylon face, back and side wired. Assembled in USA.	Black	<b>8200BK</b>	<b>8300BK</b>
	Brown	<b>8200</b>	<b>8300</b>
	Gray	<b>8200GY</b>	<b>8300GY</b>
	Ivory	<b>8200IV</b>	<b>8300IV</b>
	Light Almond	<b>8200LA</b>	<b>8300LA</b>
	Red	<b>8200RED</b>	<b>8300RED</b>
White	<b>8200WHI</b>	<b>8300WHI</b>	
Hospital grade, Tamper-Resistant, smooth nylon face, back and side wired. Assembled in USA.	Black	<b>8200BKTRA</b>	<b>8300BKTRA</b>
	Brown	<b>8200TRA</b>	<b>8300TRA</b>
	Gray	<b>8200GYTRA</b>	<b>8300GYTRA</b>
	Ivory	<b>8200IVTRA</b>	<b>8300IVTRA</b>
	Light Almond	<b>8200LATRA</b>	<b>8300LATRA</b>
	Red	<b>8200REDTRA</b>	<b>8300REDTRA</b>
White	<b>8200WTRA</b>	<b>8300WTRA</b>	
Hospital grade, with Power Indicating LED, smooth nylon face, back and side wired. Assembled in USA.	Black	<b>8200BKL</b>	<b>8300BKL</b>
	Brown	<b>8200L</b>	<b>8300L</b>
	Gray	<b>8200GYL</b>	<b>8300GYL</b>
	Ivory	<b>8200IVL</b>	<b>8300IVL</b>
	Light Almond	<b>8200LAL</b>	<b>8300LALM</b>
	Red	<b>8200REDL</b>	<b>8300REDL</b>
White	<b>8200WL</b>	<b>8300WL</b>	
Hospital grade, Tamper-Resistant, with Power Indicating LED, smooth nylon face, back and side wired. Assembled in USA.	Black	<b>8200BKLTRA</b>	<b>8300BKLTRA</b>
	Brown	<b>8200LTRA</b>	<b>8300LTRA</b>
	Gray	<b>8200GYLTRA</b>	<b>8300GYLTRA</b>
	Ivory	<b>8200IVLTRA</b>	<b>8300IVLTRA</b>
	Light Almond	<b>8200LALTRA</b>	<b>8300LALTRA</b>
	Red	<b>8200REDLTRA</b>	<b>8300REDLTRA</b>
White	<b>8200WLTRA</b>	<b>8300WLTRA</b>	

#### Style Line® Decorator

Hospital grade, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	<b>2172BK</b>	<b>2182BK</b>
	Brown	<b>2172</b>	<b>2182</b>
	Gray	<b>2172GY</b>	<b>2182GY</b>
	Ivory	<b>2172IV</b>	<b>2182IV</b>
	Light Almond	<b>2172LA</b>	<b>2182LA</b>
	Red	<b>2172RED</b>	<b>2182RED</b>
White	<b>2172W</b>	<b>2182W</b>	
Hospital grade, Tamper-Resistant, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	<b>2172BKTRA</b>	<b>2182BKTRA</b>
	Brown	<b>2172TRA</b>	<b>2182TRA</b>
	Gray	<b>2172GYTRA</b>	<b>2182GYTRA</b>
	Ivory	<b>2172IVTRA</b>	<b>2182IVTRA</b>
	Light Almond	<b>2172LATRA</b>	<b>2182LATRA</b>
	Red	<b>2172REDTRA</b>	<b>2182REDTRA</b>
White	<b>2172WTRA</b>	<b>2182WTRA</b>	
Hospital grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	<b>2172BKL</b>	<b>2182BKL</b>
	Brown	<b>2172L</b>	<b>2182L</b>
	Gray	<b>2172GYL</b>	<b>2182GYL</b>
	Ivory	<b>2172IVL</b>	<b>2182IVL</b>
	Light Almond	<b>2172LAL</b>	<b>2182LAL</b>
	Red	<b>2172REDL</b>	<b>2182REDL</b>
White	<b>2172WL</b>	<b>2182WL</b>	
Hospital grade, Tamper-Resistant, with Power Indicating LED, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	<b>2172BKLTRA</b>	<b>2182BKLTRA</b>
	Brown	<b>2172LTRA</b>	<b>2182LTRA</b>
	Gray	<b>2172GYLTRA</b>	<b>2182GYLTRA</b>
	Ivory	<b>2172IVLTRA</b>	<b>2182IVLTRA</b>
	Light Almond	<b>2172LALTRA</b>	<b>2182LALTRA</b>
	Red	<b>2172REDLTRA</b>	<b>2182REDLTRA</b>
White	<b>2172WLTRA</b>	<b>2182WLTRA</b>	

Note: See pages A-50 and A-51 for accessories.

See page Tech-10 for Tamper-Resistant and LED Power Indicators descriptions.

See section N for wallplates.

# Straight Blade Devices



## 15 and 20 Ampere, 125 and 250 Volts

### Hubbell-PRO Heavy Duty Specification Grade Receptacles



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP

Duplex	Color	Catalog Number	Catalog Number
Smooth nylon face, duplex, back and side wired.	Almond	5252AAL	5352AAL
	Black	5252ABLK	5352ABLK
	Brown	5252AB	5352AB
	Gray	5252AG	5352AG
	Ivory	5252AI	5352AI
	Light Almond	5252ALA	5352ALA
	Office White	5252AOW	5352AOW
	Red	5252AR	5352AR
	White	5252AW	5352AW
Isolated ground <sup>A</sup> , smooth face, duplex, back and side wired.	Almond	IG5252AL	IG5352AL
	Gray	IG5252GY	IG5352GY
	Ivory	IG5252I	IG5352I
	Light Almond	IG5252LA	IG5352LA
	Orange	IG5252	IG5352
Isolated ground <sup>A</sup> , Tamper-Resistant, smooth face, duplex, back and side wired.	Ivory	IG5252ITR	IG5352ITR
	Orange	IG5252TR	IG5352TR
	White	IG5252WTR	IG5352WTR
Finder groove nylon face, duplex, back and side wired.	Almond	5262AL	5362AL
	Black	5262BLK	5362BLK
	Blue	-	5362BL
	Brown	5262B	5362B
	Gray	5262G	5362G
	Ivory	5262I	5362I
	Light Almond	5262LA	5362LA
	Office White	5262OW	5362OW
	Red	5262R	5362R
	White	5262W	5362W
Weather Resistant, finder groove nylon face, duplex, back and side wired.	Black	5262BKWR	5362BKWR
	Brown	5262WR	5362WR
	Gray	5262GYWR	5362GYWR
	Ivory	5262IWR	5362IWR
	White	5262WWR	5362WWR
Isolated ground <sup>A</sup> , finder groove face, duplex, back and side wired.	Black	CR5252IGBK	CR5352IGBK
	Blue	-	CR5352IGBL
	Gray	CR5252IGGY	CR5352IGGY
	Ivory	CR5252IGI	CR5352IGI
	Orange	CR5252IG	CR5352IG
	Office White	CR5252IGOW	CR5352IGOW
White	CR5252IGW	CR5352IGW	

Note: <sup>A</sup>See section M for additional information on isolated ground devices.  
See page A-46 for accessories and section N for wallplates.  
See page Tech-10 for Tamper and Weather Resistant descriptions.  
Horsepower ratings listed above are AC only.



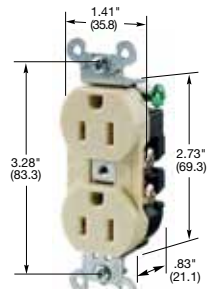
15A 250V  
NEMA 6-15R  
UL CSA  
1.5 HP



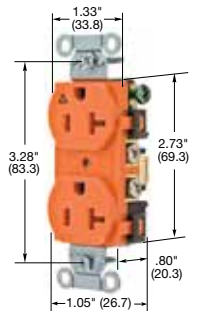
20A 250V  
NEMA 6-20R  
UL CSA  
2 HP

### Hubbell-PRO Heavy Duty Specification Grade Receptacles

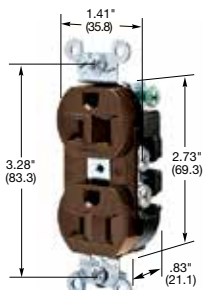
Duplex	Color	Catalog Number	Catalog Number
Smooth nylon face, duplex, back and side wired.	Almond	5662AL	5462AL
	Black	5662BK	5462BK
	Blue	5662BL	5462BL
	Brown	5662B	5462B
	Gray	5662GY	5462GY
	Ivory	5662IV	5462IV
	Light Almond	5662LA	5462LA
	Red	5662R	5462R
	White	5662WHI	5462WHI



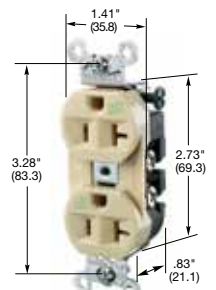
5252AI



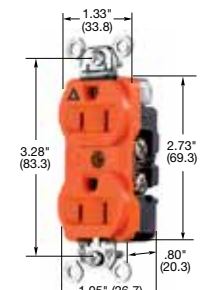
IG5352



5262B



5362IWR



CR5252IG

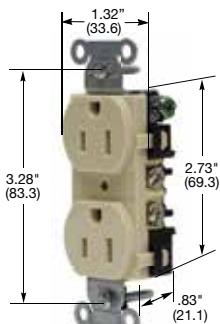
Dimensions in Inches (mm)



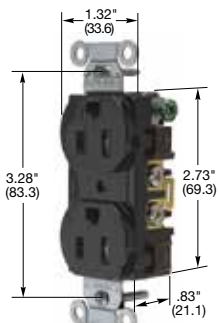
15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



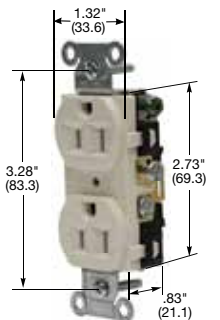
20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



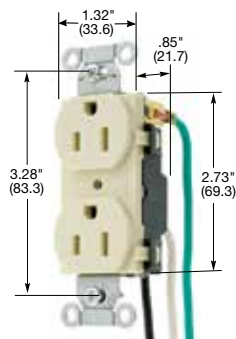
CR15I



CR15TR



CRF15LA



CR15IP1

### Commercial Specification Grade Receptacles

#### Duplex

Description	Color	Catalog Number	
Smooth nylon face, duplex, side wired only.	Almond	<b>CR15AL</b>	<b>CR20AL</b>
	Black	<b>CR15BLK</b>	<b>CR20BLK</b>
	Brown	<b>CR15</b>	<b>CR20</b>
	Gray	<b>CR15GRY</b>	<b>CR20GRY</b>
	Ivory	<b>CR15I</b>	<b>CR20I</b>
	Light Almond	<b>CR15LA</b>	<b>CR20LA</b>
	Office White	<b>CR15OW</b>	<b>CR20OW</b>
	White	<b>CR15WHI</b>	<b>CR20WHI</b>
Tamper-Resistant*, smooth nylon face, duplex, side wired only.	Almond	<b>CR15ALTR</b>	<b>CR20ALTR</b>
	Black	<b>CR15BLKTR</b>	<b>CR20BLKTR</b>
	Brown	<b>CR15TR</b>	<b>CR20TR</b>
	Gray	<b>CR15GRYTR</b>	<b>CR20GRYTR</b>
	Ivory	<b>CR15ITR</b>	<b>CR20ITR</b>
	Light Almond	<b>CR15LATR</b>	<b>CR20LATR</b>
	White	<b>CR15WHITR</b>	<b>CR20WHITR</b>
Finder groove, nylon face, duplex, side wired only.	Almond	<b>CRF15AL</b>	<b>CRF20AL</b>
	Black	<b>CRF15BLK</b>	<b>CRF20BLK</b>
	Brown	<b>CRF15</b>	<b>CRF20</b>
	Gray	<b>CRF15GRY</b>	<b>CRF20GRY</b>
	Ivory	<b>CRF15I</b>	<b>CRF20I</b>
	Light Almond	<b>CRF15LA</b>	<b>CRF20LA</b>
	Office White	<b>CRF15OW</b>	<b>CRF20OW</b>
	White	<b>CRF15WHI</b>	<b>CRF20WHI</b>
Pre-wired receptacles, smooth nylon face, duplex, side wired only, self-grounding, 8" solid wire leads.	Black	<b>CR15BLKP1</b>	<b>CR20BLKP1</b>
	Brown	<b>CR15P1</b>	<b>CR20P1</b>
	Gray	<b>CR15GRYP1</b>	<b>CR20GRYP1</b>
	Ivory	<b>CR15IP1</b>	<b>CR20IP1</b>
	Light Almond	<b>CR15LAP1</b>	<b>CR20LAP1</b>
	White	<b>CR15WHIP1</b>	<b>CR20WHIP1</b>
Pre-wired receptacles, smooth nylon face, duplex, side wired only, self-grounding, 8" stranded wire leads.	Black	<b>CR15BLKP2</b>	<b>CR20BLKP2</b>
	Brown	<b>CR15P2</b>	<b>CR20P2</b>
	Gray	<b>CR15GRYP2</b>	<b>CR20GRYP2</b>
	Ivory	<b>CR15IP2</b>	<b>CR20IP2</b>
	Light Almond	<b>CR15LAP2</b>	<b>CR20LAP2</b>
	White	<b>CR15WHIP2</b>	<b>CR20WHIP2</b>
Pre-wired receptacles, Tamper-Resistant*, smooth nylon face, duplex, side wired only, self-grounding, 8" solid wire leads.	Black	<b>CR15BLKTRP1</b>	<b>CR20BLKTRP1</b>
	Brown	<b>CR15TRP1</b>	<b>CR20TRP1</b>
	Gray	<b>CR15GRYTRP1</b>	<b>CR20GRYTRP1</b>
	Ivory	<b>CR15ITRP1</b>	<b>CR20ITRP1</b>
	Light Almond	<b>CR15LATRP1</b>	<b>CR20LATRP1</b>
	White	<b>CR15WHITRP1</b>	<b>CR20WHITRP1</b>
Pre-wired receptacles, Tamper-Resistant*, smooth nylon face, duplex, side wired only, self-grounding, 8" stranded wire leads.	Black	<b>CR15BLKTRP2</b>	<b>CR20BLKTRP2</b>
	Brown	<b>CR15TRP2</b>	<b>CR20TRP2</b>
	Gray	<b>CR15GRYTRP2</b>	<b>CR20GRYTRP2</b>
	Ivory	<b>CR15ITRP2</b>	<b>CR20ITRP2</b>
	Light Almond	<b>CR15LATRP2</b>	<b>CR20LATRP2</b>
	White	<b>CR15WHITRP2</b>	<b>CR20WHITRP2</b>

Note: \*Tamper-resistant devices are not Fed. Spec. Listed.  
See page A-46 for accessories.  
See page Tech-10 for Tamper-Resistant descriptions.  
See section N for wallplates.

Dimensions in Inches (mm)



# Straight Blade Devices



## 15 and 20 Ampere, 125 Volts



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP

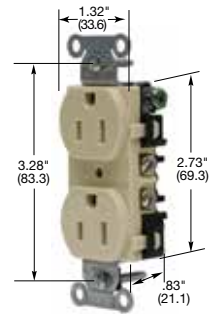


**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

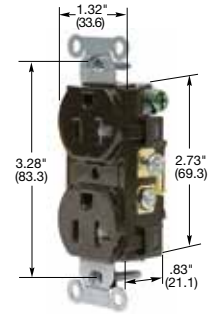
### Commercial Specification Grade Receptacles Duplex

Description	Color	Catalog Number	
Smooth nylon face, duplex, back and side wired.	Almond	<b>BR15AL</b>	<b>BR20AL</b>
	Black	<b>BR15BLK</b>	<b>BR20BLK</b>
	Blue	<b>BR15BL</b>	<b>BR20BL</b>
	Brown	<b>BR15</b>	<b>BR20</b>
	Gray	<b>BR15GRY</b>	<b>BR20GRY</b>
	Ivory	<b>BR15I</b>	<b>BR20I</b>
	Light Almond	<b>BR15LA</b>	<b>BR20LA</b>
	Office White	<b>BR15OW</b>	<b>BR20OW</b>
	Red	<b>BR15R</b>	<b>BR20R</b>
	White	<b>BR15WHI</b>	<b>BR20WHI</b>
Tamper-Resistant*, smooth nylon face, duplex, back and side wired.	Almond	<b>BR15ALTR</b>	<b>BR20ALTR</b>
	Black	<b>BR15BLKTR</b>	<b>BR20BLKTR</b>
	Blue	<b>BR15BLTR</b>	<b>BR20BLTR</b>
	Brown	<b>BR15TR</b>	<b>BR20TR</b>
	Gray	<b>BR15GRYTR</b>	<b>BR20GRYTR</b>
	Ivory	<b>BR15ITR</b>	<b>BR20ITR</b>
	Light Almond	<b>BR15LATR</b>	<b>BR20LATR</b>
	Red	<b>BR15RTR</b>	<b>BR20RTR</b>
	White	<b>BR15WHITR</b>	<b>BR20WHITR</b>
	Weather Resistant, smooth nylon face, duplex, back and side wired.	Black	<b>BR15BLKWR</b>
Brown		<b>BR15WR</b>	<b>BR20WR</b>
Gray		<b>BR15GRYWR</b>	<b>BR20GRYWR</b>
Ivory		<b>BR15IWR</b>	<b>BR20IWR</b>
Light Almond		<b>BR15LAWR</b>	<b>BR20LAWR</b>
White		<b>BR15WHIWR</b>	<b>BR20WHIWR</b>
Weather and Tamper-Resistant*, smooth nylon face, duplex, back and side wired.	Black	<b>BR15BLKWRTR</b>	<b>BR20BLKWRTR</b>
	Brown	<b>BR15WRTR</b>	<b>BR20WRTR</b>
	Gray	<b>BR15GRYWRTR</b>	<b>BR20GRYWRTR</b>
	Ivory	<b>BR15IWRTR</b>	<b>BR20IWRTR</b>
	Light Almond	<b>BR15LAWRTR</b>	<b>BR20LAWRTR</b>
	White	<b>BR15WHIWRTR</b>	<b>BR20WHIWRTR</b>
Isolated ground <sup>A</sup> , smooth nylon face, duplex, side wired only.	Almond	<b>IG15CRAL</b>	<b>IG20CRAL</b>
	Gray	<b>IG15CRGRY</b>	<b>IG20CRGRY</b>
	Ivory	<b>IG15CRI</b>	<b>IG20CRI</b>
	Light Almond	<b>IG15CRLA</b>	<b>IG20CRLA</b>
	Orange	<b>IG15CR</b>	<b>IG20CR</b>
	White	<b>IG15CRWHI</b>	<b>IG20CRWHI</b>
Isolated ground <sup>A</sup> , Style Line <sup>®</sup> decorator*, smooth nylon face, duplex, back and side wired.	Almond	<b>IG15DRAL</b>	<b>IG20DRAL</b>
	Gray	<b>IG15DRGRY</b>	<b>IG20DRGRY</b>
	Ivory	<b>IG15DRI</b>	<b>IG20DRI</b>
	Light Almond	<b>IG15DRLA</b>	<b>IG20DRLA</b>
	Orange	<b>IG15DR</b>	<b>IG20DR</b>
	White	<b>IG15DRWHI</b>	<b>IG20DRWHI</b>

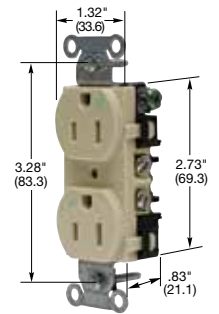
Note: <sup>A</sup>See section M for additional information on isolated ground devices.  
\*Tamper-resistant and IG decorator devices are not Fed. Spec. Listed.  
See page A-46 for accessories.  
See page Tech-10 for Tamper and Weather Resistant descriptions.  
See section N for wallplates.



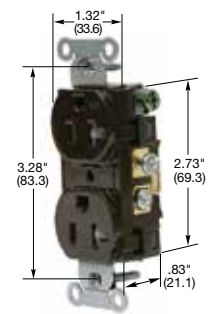
**BR15I**



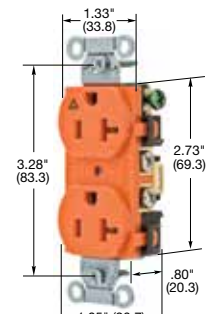
**BR20TR**



**BR15IWR**



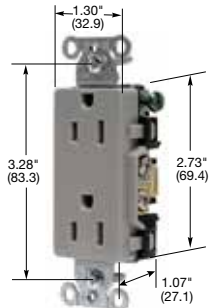
**BR20WRTR**



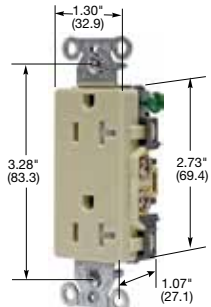
**IG20CR**

Dimensions in Inches (mm)

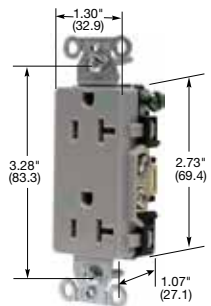
## 15 and 20 Ampere, 125 Volts



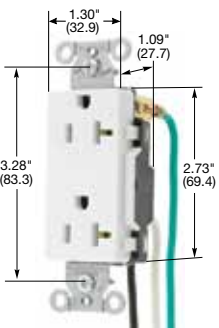
**DR15GRY**



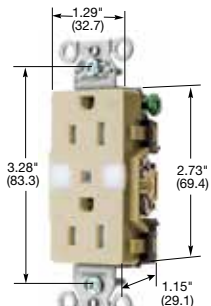
**DR20ITR**



**DR20GRYWRTR**



**DR20WHIP2**



**DR15NLIV**

Dimensions in Inches (mm)

### Commercial Specification Grade Receptacles







#### Style Line® Decorator



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

Description	Color	Catalog Number	Catalog Number	
Smooth nylon face, Style Line® decorator duplex, back and side wired.	Almond	<b>DR15AL</b>	<b>DR20AL</b>	
	Black	<b>DR15BLK</b>	<b>DR20BLK</b>	
	Brown	<b>DR15</b>	<b>DR20</b>	
	Gray	<b>DR15GRY</b>	<b>DR20GRY</b>	
	Ivory	<b>DR15I</b>	<b>DR20I</b>	
	Light Almond	<b>DR15LA</b>	<b>DR20LA</b>	
	Red	<b>DR15R</b>	<b>DR20R</b>	
	White	<b>DR15WHI</b>	<b>DR20WHI</b>	
	 Tamper-Resistant*, Style Line® decorator duplex, smooth nylon face, back and side wired.	Almond	<b>DR15ALTR</b>	<b>DR20ALTR</b>
		Black	<b>DR15BLKTR</b>	<b>DR20BLKTR</b>
Brown		<b>DR15TR</b>	<b>DR20TR</b>	
Gray		<b>DR15GRYTR</b>	<b>DR20GRYTR</b>	
Ivory		<b>DR15ITR</b>	<b>DR20ITR</b>	
Light Almond		<b>DR15LATR</b>	<b>DR20LATR</b>	
White		<b>DR15WHITR</b>	<b>DR20WHITR</b>	
 Weather and Tamper-Resistant*, Style Line® decorator duplex, smooth nylon face, back and side wired.		Black	<b>DR15BLKWRTR</b>	<b>DR20BLKWRTR</b>
		Brown	<b>DR15WRTR</b>	<b>DR20WRTR</b>
		Gray	<b>DR15GRYWRTR</b>	<b>DR20GRYWRTR</b>
	Ivory	<b>DR15IWRTR</b>	<b>DR20IWRTR</b>	
	Light Almond	<b>DR15LAWRTR</b>	<b>DR20LAWRTR</b>	
	White	<b>DR15WHIWRTR</b>	<b>DR20WHIWRTR</b>	
	Pre-wired receptacles, Style Line® decorator duplex, smooth nylon face, back and side wired, self-grounding, 8" solid wire leads.	Black	<b>DR15BLKP1</b>	<b>DR20BLKP1</b>
		Brown	<b>DR15P1</b>	<b>DR20P1</b>
Gray		<b>DR15GRYP1</b>	<b>DR20GRYP1</b>	
Ivory		<b>DR15IP1</b>	<b>DR20IP1</b>	
Light Almond		<b>DR15LAP1</b>	<b>DR20LAP1</b>	
Pre-wired receptacles, Style Line® decorator duplex, smooth nylon face, back and side wired, self-grounding, 8" stranded wire leads.	White	<b>DR15WHIP1</b>	<b>DR20WHIP1</b>	
	Black	<b>DR15BLKP2</b>	<b>DR20BLKP2</b>	
	Brown	<b>DR15P2</b>	<b>DR20P2</b>	
	Gray	<b>DR15GRYP2</b>	<b>DR20GRYP2</b>	
	Ivory	<b>DR15IP2</b>	<b>DR20IP2</b>	
 Pre-wired receptacles, Tamper-Resistant*, Style Line® decorator duplex, smooth nylon face, back and side wired, self-grounding, 8" solid wire leads.	Light Almond	<b>DR15LAP2</b>	<b>DR20LAP2</b>	
	White	<b>DR15WHIP2</b>	<b>DR20WHIP2</b>	
	Black	<b>DR15BLKTRP1</b>	<b>DR20BLKTRP1</b>	
	Brown	<b>DR15TRP1</b>	<b>DR20TRP1</b>	
	Gray	<b>DR15GRYTRP1</b>	<b>DR20GRYTRP1</b>	
 Pre-wired receptacles, Tamper-Resistant*, Style Line® decorator duplex, smooth nylon face, back and side wired, self-grounding, 8" stranded wire leads.	Ivory	<b>DR15ITRP1</b>	<b>DR20ITRP1</b>	
	Light Almond	<b>DR15LATRP1</b>	<b>DR20LATRP1</b>	
	White	<b>DR15WHITRP1</b>	<b>DR20WHITRP1</b>	
	Black	<b>DR15BLKTRP2</b>	<b>DR20BLKTRP2</b>	
	Brown	<b>DR15TRP2</b>	<b>DR20TRP2</b>	
 Nightlight receptacle, two nightlight sources for a total of 0.5 Lumens, Tamper-Resistant* shutters complies with NEC article 406.12, back and side wired	Gray	<b>DR15GRYTRP2</b>	<b>DR20GRYTRP2</b>	
	Ivory	<b>DR15ITRP2</b>	<b>DR20ITRP2</b>	
	Light Almond	<b>DR15LATRP2</b>	<b>DR20LATRP2</b>	
	White	<b>DR15WHITRP2</b>	<b>DR20WHITRP2</b>	
	Ivory	<b>DR15NLIV</b>	-	
Light Almond	<b>DR15NLLA</b>	-		
White	<b>DR15NLWH</b>	-		

Note: \*Tamper-resistant devices are not Fed. Spec. Listed.  
See page A-46 for accessories.  
See page Tech-10 for Tamper and Weather Resistant descriptions.  
See section N for wallplates.

## 15 and 20 Ampere, 125 Volts



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP

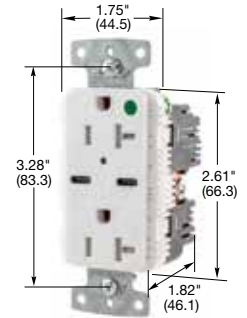


**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

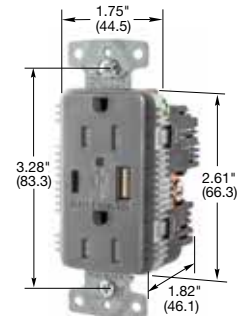


### Hospital Grade ● USB Charger Type-C, Type A&C and Type A

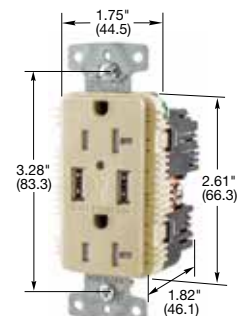
Description	Color	Catalog Number	
Hospital Grade USB Charger Outlet: two Type-C port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles	Black	<b>USB8200C5BK</b>	<b>USB8300C5BK</b>
	Brown	<b>USB8200C5</b>	<b>USB8300C5</b>
	Gray	<b>USB8200C5GY</b>	<b>USB8300C5GY</b>
	Ivory	<b>USB8200C5I</b>	<b>USB8300C5I</b>
	Light Almond	<b>USB8200C5LA</b>	<b>USB8300C5LA</b>
	Red	<b>USB8200C5R</b>	<b>USB8300C5R</b>
Hospital Grade USB Charger Outlet: one Type A and one Type-C port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles	Black	<b>USB8200AC5BK</b>	<b>USB8300AC5BK</b>
	Brown	<b>USB8200AC5</b>	<b>USB8300AC5</b>
	Gray	<b>USB8200AC5GY</b>	<b>USB8300AC5GY</b>
	Ivory	<b>USB8200AC5I</b>	<b>USB8300AC5I</b>
	Light Almond	<b>USB8200AC5LA</b>	<b>USB8300AC5LA</b>
	Red	<b>USB8200AC5R</b>	<b>USB8300AC5R</b>
Hospital Grade USB Charger Outlet: two Type A port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles	Black	<b>USB8200A5BK</b>	<b>USB8300A5BK</b>
	Brown	<b>USB8200A5</b>	<b>USB8300A5</b>
	Gray	<b>USB8200A5GY</b>	<b>USB8300A5GY</b>
	Ivory	<b>USB8200A5I</b>	<b>USB8300A5I</b>
	Light Almond	<b>USB8200A5LA</b>	<b>USB8300A5LA</b>
	Red	<b>USB8200A5R</b>	<b>USB8300A5R</b>
White	<b>USB8200A5W</b>	<b>USB8300A5W</b>	



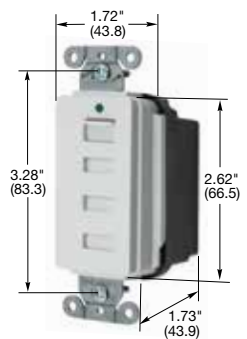
**USB8300C5W**



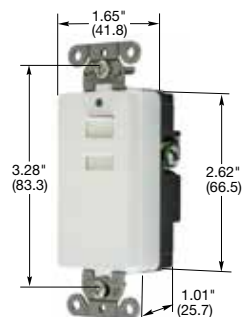
**USB15AC5GY**



**USB20A5I**



**USB4W**



**USB2W**

Dimensions in Inches (mm)

### Commercial Grade USB Charger Type-C, Type A&C and Type A



Description	Color	Catalog Number	
Commercial Grade USB Charger Outlet: two Type-C port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles	Black	<b>USB15C5BK</b>	<b>USB20C5BK</b>
	Brown	<b>USB15C5</b>	<b>USB20C5</b>
	Gray	<b>USB15C5GY</b>	<b>USB20C5GY</b>
	Ivory	<b>USB15C5I</b>	<b>USB20C5I</b>
	Light Almond	<b>USB15C5LA</b>	<b>USB20C5LA</b>
	White	<b>USB15C5W</b>	<b>USB20C5W</b>
Commercial Grade USB Charger Outlet: one Type A and one Type-C port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles	Black	<b>USB15AC5BK</b>	<b>USB20AC5BK</b>
	Brown	<b>USB15AC5</b>	<b>USB20AC5</b>
	Gray	<b>USB15AC5GY</b>	<b>USB20AC5GY</b>
	Ivory	<b>USB15AC5I</b>	<b>USB20AC5I</b>
	Light Almond	<b>USB15AC5LA</b>	<b>USB20AC5LA</b>
	White	<b>USB15AC5W</b>	<b>USB20AC5W</b>
Commercial Grade USB Charger Outlet: two Type A port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles	Black	<b>USB15A5BK</b>	<b>USB20A5BK</b>
	Brown	<b>USB15A5</b>	<b>USB20A5</b>
	Gray	<b>USB15A5GY</b>	<b>USB20A5GY</b>
	Ivory	<b>USB15A5I</b>	<b>USB20A5I</b>
	Light Almond	<b>USB15A5LA</b>	<b>USB20A5LA</b>
	White	<b>USB15A5W</b>	<b>USB20A5W</b>

### USB Charger 4 Port Outlet

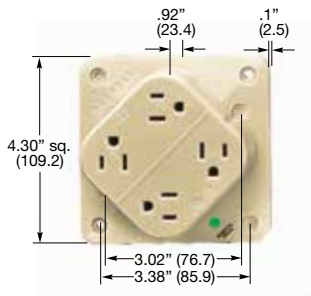


Description	Color	Catalog Number
USB Charger 4 Port Outlet, Four USB Type 2.0 Ports 5 Amp, 5 Volt DC decorator.	Black	<b>USB4BK</b>
	Brown	<b>USB4</b>
	Gray	<b>USB4GY</b>
	Ivory	<b>USB4I</b>
	Lt. Almond	<b>USB4LA</b>
	White	<b>USB4W</b>

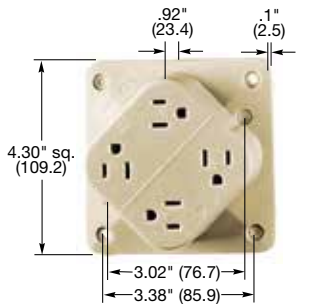
### USB Charger 2 Port Outlet

Description	Color	Catalog Number
USB Charger 2 Port Outlet, Shallow Profile, Two USB Type 2.0 Ports 3 Amp, 5 Volt DC decorator.	Black	<b>USB2BK</b>
	Brown	<b>USB2</b>
	Gray	<b>USB2GY</b>
	Ivory	<b>USB2I</b>
	Lt. Almond	<b>USB2LA</b>
	White	<b>USB2W</b>

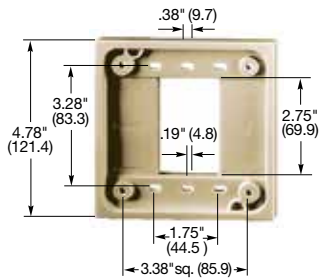
## 15 and 20 Ampere, 125 Volts



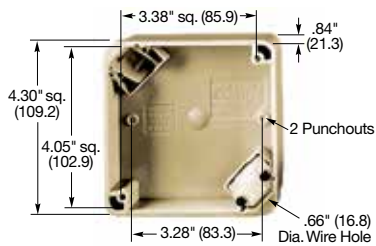
**HBL415HI**



**HBL415I**



**HBL4API**



**HBL4PBI**

### 4-PLEX® Hospital Grade ● Receptacles



**15A 125V**  
**NEMA 5-15R**  
 UL CSA  
 0.5 HP



**20A 125V**  
**NEMA 5-20R**  
 UL CSA  
 1 HP

Description	Color	Catalog Number	
4 outlet high impact resistant Polycarbonate construction. Mount to 4 in. square box.	Brown	<b>HBL415H</b>	<b>HBL420H</b>
	Gray	-	<b>HBL420HGY</b>
	Ivory	<b>HBL415HI</b>	<b>HBL420HI</b>
	Red	<b>HBL415HR</b>	<b>HBL420HR</b>
	White	<b>HBL415HW</b>	<b>HBL420HW</b>

Note: See page A-23 for additional information on 4-PLEX devices.

### 4-PLEX® Receptacles Over Size Robertson/Slotted Head Terminal Screws



**15A 125V**  
**NEMA 5-15R**  
 UL CSA  
 0.5 HP



**20A 125V**  
**NEMA 5-20R**  
 UL CSA  
 1 HP

Description	Color	Catalog Number	
Specification grade.	Black	<b>HBL415BK</b>	<b>HBL420BK</b>
	Brown	<b>HBL415</b>	<b>HBL420</b>
	Gray	<b>HBL415GY</b>	<b>HBL420GY</b>
	Ivory	<b>HBL415I</b>	<b>HBL420I</b>
	White	<b>HBL415W</b>	<b>HBL420W</b>
Isolated ground <sup>A</sup> .	Orange	<b>IG415</b>	<b>IG420</b>
Surge suppression.	Blue	<b>HBL415S</b>	<b>HBL420S</b>
	Ivory	<b>HBL415IS</b>	<b>HBL420IS</b>

Note: <sup>A</sup>See section M for additional information on isolated ground devices.

Horsepower ratings are AC only.

4-PLEX Receptacles are of a non-metallic design. Product is supplied with isolated ground symbol stickers. Apply if needed. Mounts to 4-inch square box.

### 4-PLEX® Accessories

Description	Color	Catalog Number
4-PLEX adapter plates for 1- and 2-gang, device boxes.	Blue	<b>HBL4APBL</b>
	Brown	<b>HBL4AP</b>
	Gray	<b>HBL4APGY</b>
	Ivory	<b>HBL4API</b>
	Orange	<b>HBL4APO</b>
	Red	<b>HBL4APR</b>
	White	<b>HBL4APW</b>
4-PLEX Portable Box, 4 in. (101.6) square box with cord grip. Accepts up to .66 in. (16.8) diameter cord.	Black	<b>HBL4PBBK</b>
	Brown	<b>HBL4PB</b>
	Ivory	<b>HBL4PBI</b>

Note: 4-PLEX Box is not UL listed or CSA Certified. UL listing does not apply when 4-PLEX Receptacle is used with 4-PLEX Box in extension cord application. Supplied with one cord clamp.



# Straight Blade Devices

## Products at a Glance



### Hospital Grade Plugs and Connectors

- Hospital Grade with green dot symbol
- Powerful offsetting cord grips clamp on individual conductors
- Transparent angled wiring entrance holes permit "straight in" conductor insertion
- Valise® devices have unique patented clamp type terminals, provide a superior electrical connection



### Heavy Duty Insulgrip® Plugs and Connectors

- Beveled housing prevents snagging
- Integral VARI-SIZE® insert adjusts to a wide range of cord sizes: .23 to .72 inch (5.8 to 18.3).
- Individually molded face for each blade configuration keeps debris out of plug interior
- Ribbed nylon housing is impact and chemical resistant



### Watertight and Dust Tight Devices

- Multiple "U-Drive" fast lead body assembly screws
- Color coded Kellems GOTCHA® rings provide increased cord retention
- Powerful nylon cord grip prevents strain on terminals
- Dust and moisture seal keeps out liquids, metal filings and other foreign materials
- Closure plug seals connector body when disconnected from plug

# Straight Blade Devices

## Features and Benefits

### Insulgrip® 15 and 20 Ampere Plugs and Connector Bodies

Insulgrip products are synonymous with Hubbell's ongoing commitment to discovering ways to make products safer and last longer.

By encasing wiring devices in tough nylon housings, Insulgrip devices ensure high impact, heat, and chemical resistance while insulating current-carrying components from the user for maximum safety.

- The Insulgrip's cord gripping design clamps conductors, not just the cable jacket, making it the industry's most powerful cord grip with superior strain relief.
- Each Insulgrip device is manufactured with roomy, separate wiring chambers to insulate conductors and an individually molded face to keep out dust and debris that can cause contamination over time.



HBL5266C



HBL5269C



#### Housing Design

- Ribbed nylon housing provides a secure grip that's impact and chemical resistant
- Beveled housing prevents snagging when dragged across uneven surfaces
- Individually molded face for each blade configuration keeps debris out of plug interior



#### Internal Design

- Powerful cord grips clamp on individual conductors and outer cord jacket to prevent strain on terminations
- Individual wiring terminals are completely enclosed in their own separate chambers



#### Cord Range

- Integral VARI-SIZE® insert adjusts to a wide range of cord sizes: .230"-.720" (5.8-18.3)
- VARI-SIZE® pointer set to "smaller than gauge" position. Cord diameter range is .230"-.360" (5.8-9.0). Accepts slotted and Phillips head drivers



#### Assembly

- Multiple drive screw heads provide screwdriver versatility. Pocketed recess for cord grip screws deters slippage of the screwdriver



#### Identification

- Catalog number is visible on the device while in use for easy identification



#### Visual Verification

- Transparent angled wiring entrance holes permit "straight in" conductor insertion and quick visual verification for terminations

# Straight Blade Devices

## Features and Benefits

### Valise® Plugs and Connector Bodies

Hubbell Valise plugs go together in seconds but stay together securely for reliable long-term operation. Eight loadbearing, locking lugs in the impact- and crush-resistant nylon body assure a positive grip. Devices feature patented “wire bundling” terminals that are easy to wire and provide positive, reliable terminations



HBL5965VY



#### Housing Design

- Removable cord inserts to accommodate a wide range of cord sizes, .220"-.660" (5.6-16.8)
- Powerful cord grips prevent conductor slippage and strain on wiring terminals
- Eight specially designed load bearing locking lugs insure a positive fit as the blade holder and sides are closed



#### Internal Design

- Unique patented clamp-type terminals provide a superior electrical connection by “bundling” the conductor strands when clamps are tightened
- Nylon webs are provided to make wiring quick and easy during assembly
- Two captive multiple drive assembly screws

### Elastogrip® High Visibility Yellow Plugs and Connectors

Hubbell straight blade devices, female connector body, Elastogrip watertight, industrial/commercial grade, 2-pole 3-wire grounding, 15A 125V, NEMA 5-15R, yellow, single pack. Tough nylon body provides superior resistance in harsh abusive environments. IP55 suitability when closure plug inserted or when installed and used properly with mating watertight plug.



HBL15W47



#### Watertight Plug Housing Design

- Thermoplastic elastomer housing resists weathering caused by ultraviolet rays and ozone better than rubber; also oil and chemical resistant
- Nylon compression nut keeps water and dust from getting into the body around the cord



#### Watertight Plug Internal Design

- Three separate transparent wiring chambers allow for visual inspection
- Multiple drive “U-Drive” fast lead body assembly screws
- Neoprene bushing keeps water and dust out
- Color coded Kellems GOTCHA® rings provide increased cord retention



#### Watertight Connector Housing Design

- Closure plug seals connector body when disconnected from plug
- Integral weatherproofing shroud seals connection between plug and connector



#### Watertight Connector Internal Design

- Pretensioned “bypass” design female contacts for abuse resistance and reliability
- Nylon compression nut keeps water and dust from getting into the body around the cord



#### Dust Tight Plug Housing Design

- Thermoplastic elastomer housing
- Powerful nylon cord grip prevents strain on terminals

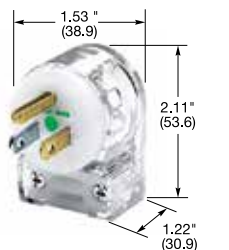


#### Dust Tight Plug Internal Design

- Multiple drive “U-Drive” fast lead body assembly screws
- Dust and moisture seal keeps out liquids, metal filings and other foreign materials



**HBL8215C**



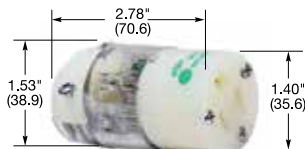
**HBL8215CAT**



**HBL8115V**



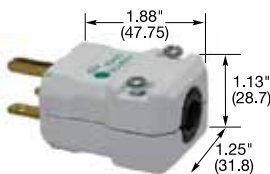
**HBL8219C**



**HBL8219CT**



**HBL8119V**



**HBL8666V**

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15P  
UL CSA



**20A 125V**  
NEMA 5-20P  
UL CSA

## Hospital Grade Plugs

### Insulgrip®

Description	Cord Diameter	Catalog Number	
Black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL8215C</b>	<b>HBL8315C</b>
Transparent housing.	.230"-.720" (5.8-18.3)	<b>HBL8215CT</b>	<b>HBL8315CT</b>
8 position angle plug, transparent housing.	.250"-.655" (6.4-16.6)	<b>HBL8215CAT*</b>	<b>HBL8315CAT*</b>

### Valise®

Description	Cord Diameter	Catalog Number	
White nylon.	.300"-.660" (7.6-16.8)	<b>HBL8115V</b>	<b>HBL8364V</b>
Insulation displacement, white nylon.	.300"-.360" (7.6-9.1)	<b>HBL8013V*</b>	-

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

## Hospital Grade Connector Bodies

### Insulgrip®

Description	Cord Diameter	Catalog Number	
Black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL8219C</b>	<b>HBL8319C</b>
Transparent housing.	.230"-.720" (5.8-18.3)	<b>HBL8219CT</b>	<b>HBL8319CT</b>

### Valise®

Description	Cord Diameter	Catalog Number	
White nylon.	.300"-.660" (7.6-16.8)	<b>HBL8119V</b>	-

Note: \*Not Fed. Spec. Listed.  
See page A-47 for accessories.

**IP20**  
SUITABILITY



**15A 250V**  
NEMA 6-15P  
UL CSA  
1.5 HP



**20A 250V**  
NEMA 6-20P  
UL CSA  
2 HP

## Hospital Grade Plugs

### Valise®

Description	Cord Diameter	Catalog Number	
Valise plug, white nylon.	.300"-.660" (7.6-16.8)	<b>HBL8666V</b>	<b>HBL8464V</b>

Note: HP ratings listed above are based on 208 to 240V AC only.



**15A 250V**  
NEMA 6-15R  
UL CSA  
1.5 HP



**20A 250V**  
NEMA 6-20R  
UL CSA  
2 HP

## Hospital Grade Connector Bodies

### Valise®

Description	Cord Diameter	Catalog Number	
White nylon.	.300"-.660" (7.6-16.8)	-	<b>HBL8469V</b>

Dimensions in Inches (mm)





**15A 125V**  
NEMA 5-15P  
UL CSA



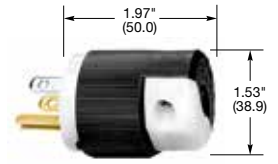
**20A 125V**  
NEMA 5-20P  
UL CSA

**IP20**  
SUITABILITY

## Plugs

### Insulgrip®

Description	Cord Diameter	Catalog Number	
Black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL5266C</b>	<b>HBL5366C</b>
Blue and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL5266CBL</b>	-
Black nylon extra large cord clamp.	.360"-.720" (9.1-18.3)	<b>HBL5266EBK</b>	<b>HBL5366EBK</b>
Corrosion resistant yellow nylon.	.230"-.720" (5.8-18.3)	<b>HBL52CM66C</b>	<b>HBL53CM66C</b>
8-position angle plug, black and white nylon.	.325"-.655" (8.3-16.6)	<b>HBL5266CA</b>	<b>HBL5366CA</b>
8-position angle plug, transparent enclosure.	.325"-.655" (8.3-16.6)	<b>HBL5266CAT</b>	-
Anchor lock, black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL5280C*</b>	-
Anchor lock, corrosion resistant yellow nylon.	.230"-.720" (5.8-18.3)	<b>HBL52CM80C*</b>	-
Finger grip, black neoprene, combination screws. CSA only.	.31"-.43" (7.9-10.9)	<b>HBL5921</b>	-
Fusible, black vinyl housing, slotted screws. CSA only.	.296"-.625" (7.5-15.9)	<b>HBL5299</b>	-



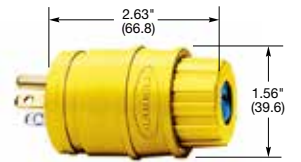
**HBL5266C**



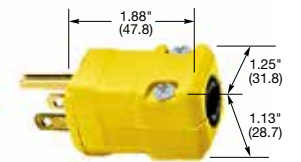
**HBL5266CA**



**HBL1447**



**HBL14W47**



**HBL5965VY**

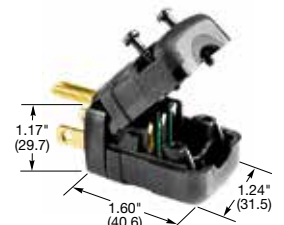
### Elastogrip®

Description	Cord Diameter	Catalog Number	
Yellow elastomer, dust tight. IP20 and IP55 SUITABILITY.	.300"-.655" (7.6-16.6)	<b>HBL1447</b>	<b>HBL1433</b>
Yellow elastomer, watertight. IP20 and IP55 SUITABILITY.	.300"-.655" (7.6-16.6)	<b>HBL14W47**</b>	<b>HBL14W33**</b>
Yellow elastomer, watertight. IP65, 66, 67 SUITABILITY.	.375"-.625" (9.5-15.9)	<b>HBL14W47A</b>	<b>HBL14W33A</b>

**IP20**  
SUITABILITY

### Valise®

Description	Cord Diameter	Catalog Number	
Yellow nylon.	.220"-.660" (5.6-16.8)	<b>HBL5965VY</b>	<b>HBL5364VY</b>
Black nylon.	.220"-.660" (5.6-16.8)	<b>HBL5965VBLK</b>	<b>HBL5364VBK</b>
Gray nylon.	.220"-.660" (5.6-16.8)	<b>HBL5965VGY</b>	-
Orange nylon, sold in bulk pack of 50.	.220"-.660" (5.6-16.8)	<b>HBL515PVO</b>	-
Insulation displacement terminals, black nylon.	.230"-.360" (5.8-9.1)	<b>HBL5966VBLK</b>	-
Insulation displacement terminals, yellow nylon.	.230"-.360" (5.8-9.1)	<b>HBL5966VY</b>	-



**HBL5966VBLK**

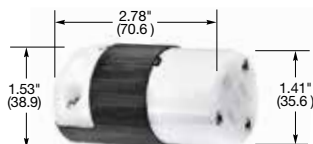
Note: \*UL Component Listed only. Not for general use applications.

\*\*Watertight plugs IP55 suitability when installed and used properly with mating Elastogrip watertight connector bodies.

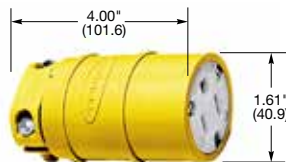
Horsepower ratings listed are AC only.

See page A-47 for accessories.

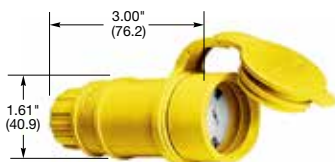
Dimensions in Inches (mm)



**HBL5269C**



**HBL1547**



**HBL15W47**



**HBL5969VY**



**HBL5963VY**



Dimensions in Inches (mm)

## IP20 SUITABILITY



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

### Connector Bodies

#### Insulgrip®

Description	Cord Diameter	Catalog Number	
Black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL5269C</b>	<b>HBL5369C</b>
Blue and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL5269CBL</b>	-
Black nylon extra large cord clamp.	.360"-.720" (9.1-18.3)	<b>HBL5269EBK</b>	<b>HBL5369EBK</b>
Corrosion resistant yellow nylon.	.230"-.720" (5.8-18.3)	<b>HBL52CM69C</b>	<b>HBL53CM69C</b>

Note: See page A-47 for accessories.

#### Elastogrip®

Description	Cord Diameter	Catalog Number	
Yellow elastomer, dust tight. IP20 and IP55 SUITABILITY.	.300"-.655" (7.6-16.6)	<b>HBL1547</b>	<b>HBL1533</b>
Yellow elastomer, watertight. IP20 and IP55 SUITABILITY.	.300"-.655" (7.6-16.6)	<b>HBL15W47*</b>	<b>HBL15W33*</b>
Yellow elastomer, watertight. IP65, 66, 67 SUITABILITY.	.375"-.625" (9.5-15.9)	<b>HBL15W47A</b>	<b>HBL15W33A</b>

## IP20 SUITABILITY

### Valise®

Description	Cord Diameter	Catalog Number	
Yellow nylon.	.220"-.660" (5.6-16.8)	<b>HBL5969VY</b>	<b>HBL5369VY</b>
Black nylon.	.220"-.660" (5.6-16.8)	<b>HBL5969VBLK</b>	<b>HBL5369VBK</b>
Gray nylon.	.220"-.660" (5.6-16.8)	<b>HBL5969VGY</b>	-
Orange nylon, sold in bulk pack of 50.	.220"-.660" (5.6-16.8)	<b>HBL515CVO</b>	-
Insulation displacement terminals, black nylon.	.230"-.360" (5.8-9.1)	<b>HBL5963VBK</b>	-
Insulation displacement terminals, yellow nylon.	.230"-.360" (5.8-9.1)	<b>HBL5963VY</b>	-

Note: \*Watertight connectors IP55 suitability when closure plug inserted or when installed and used properly with mating Elastogrip watertight plug.  
Connector bodies are not HP rated.  
See page A-47 for accessories.

For quick visual identification of circuits or configurations.

### Colored Cord Clamps\*

Description	Color	Catalog Number
For use with 15A and 20A, 2 pole/3 wire, insulgrip plugs and connectors with cord diameter range of .230"-.720" (5.8-18.3) only.	Blue	<b>HBLCORDCLAMPBL</b>
	Green	<b>HBLCORDCLAMPGN</b>
	Orange	<b>HBLCORDCLAMPOR</b>
	Purple	<b>HBLCORDCLAMPP</b>
	Red	<b>HBLCORDCLAMP R</b>
	Yellow	<b>HBLCORDCLAMPY</b>

Note: \*Clamp only. Contains no screws. Order in increments of 10. Not UL Listed or CSA Certified.



**15A 125V**  
NEMA 5-15P  
UL CSA



**20A 125V**  
NEMA 5-20P  
UL CSA

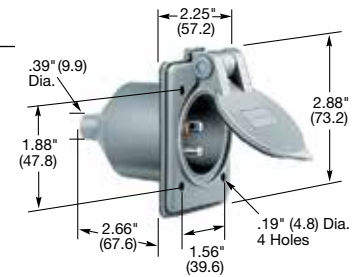
## Flanged Inlets

Description	Catalog Number	
Nylon casing, back wired.	<b>HBL5278C</b>	<b>HBL5378C</b>
Weatherproof, gray, with lift cover and multiple drive screws.	<b>HBL61CM64</b>	-
Weatherproof, black, with lift cover and boot, multiple drive screws.	<b>HBL61CM64BK</b>	-
Stainless steel flange, phenolic body, miniature style, for molded on connectors only, multiple drive screws.	<b>HBL5240*</b>	-

Note: \*Specially designed to accept "molded-on" connector bodies. Catalog number HBL5240 will not accept re-wireable size connector bodies listed in this catalog or molded connectors having a "rejection obstruction" as required by Underwriters Laboratories Inc. standard #817 cord sets and power supply cords" effective 7/1/81. See pages A-46 and A-47 for accessories.



**HBL5278C**



**HBL61CM64**



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

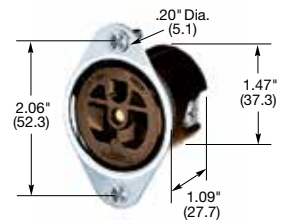
## Flanged Receptacles

Description	Catalog Number	
Nylon casing, back wired.	<b>HBL5279C</b>	<b>HBL5379C</b>
Stainless steel flange, phenolic body, covered terminals, multiple drive screws.	<b>HBL5279</b>	-
Stainless steel flange, brown phenolic (mounting screws packed separately).	<b>HBL5256</b>	-
Weatherproof, gray nylon, with lift cover and boot, multiple drive screws.	-	<b>HBL61CM65**</b>

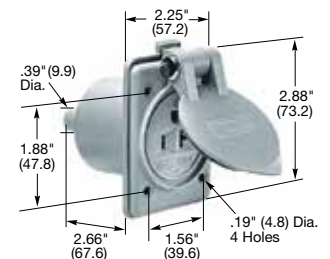
Note: \*\*Not CSA Certified.  
See pages A-46 and A-47 for accessories.



**HBL5279C**



**HBL5256**

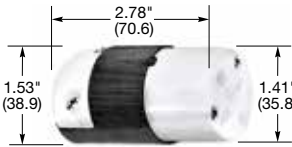


**HBL61CM65**

Dimensions in Inches (mm)



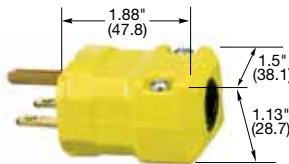
**HBL5666C**



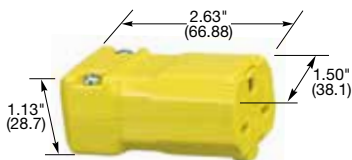
**HBL5669C**



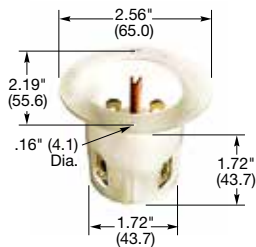
**HBL5666CA**



**HBL5666VY**



**HBL5669VY**



**HBL5678C**



Dimensions in Inches (mm)

## Plugs

Description	Cord Diameter	Catalog Number	
Insulgrip® Plug, black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL5666C</b>	<b>HBL5466C</b>
Insulgrip® Plug, corrosion resistant, yellow nylon.	.230"-.720" (5.8-18.3)	<b>HBL56CM66C</b>	<b>HBL54CM66C</b>
8-Position Insulgrip® Angle Plug, black and white nylon.	.325"-.655" (8.3-16.6)	<b>HBL5666CA</b>	<b>HBL5466CA</b>
Valise® Plug, yellow nylon.	.220"-.660" (5.6-16.8)	<b>HBL5666VY</b>	<b>HBL5464VY</b>



**15A 250V  
NEMA 6-15P  
UL CSA  
1.5 HP**



**20A 250V  
NEMA 6-20P  
UL CSA  
2 HP**

## Connector Bodies

Description	Cord Diameter	Catalog Number	
Insulgrip® Connector Body, black and white nylon, multiple drive screws.	.230"-.720" (5.8-18.3)	<b>HBL5669C</b>	<b>HBL5469C</b>
Valise® Connector Body, yellow nylon.	.220"-.660" (5.6-16.8)	<b>HBL5669VY</b>	<b>HBL5469VY</b>



**15A 250V  
NEMA 6-15R  
UL CSA**



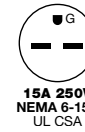
**20A 250V  
NEMA 6-20R  
UL Listed**

Note: See page A-47 for accessories.

## Insulgrip® Flanged Inlets

Description	Catalog Number	
Nylon casing, back wired.	<b>HBL5678C</b>	<b>HBL5478C</b>

Note: Flanged inlets are not HP rated.  
See page A-47 for accessories.



**15A 250V  
NEMA 6-15R  
UL CSA**



**20A 250V  
NEMA 6-20R  
UL CSA**

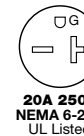
## Flanged Receptacles

Description	Catalog Number	
Nylon casing, multiple drive screws.	<b>HBL5679C</b>	<b>HBL5479C</b>
Stainless steel flange, brown phenolic housing (mounting screws packaged separately).	<b>HBL5656</b>	-

Note: Connector bodies are not HP rated.  
See pages A-46 and A-47 for accessories.



**15A 250V  
NEMA 6-15R  
UL CSA**



**20A 250V  
NEMA 6-20R  
UL Listed**

For quick visual identification of circuits or configurations.

## Colored Cord Clamps\*

Description	Color	Catalog Number
For use with 15A and 20A, 2 pole/3 wire, insulgrip plugs and connectors with cord diameter range of .230"-.720" (5.8-18.3) only.	Blue	<b>HBLCORDCLAMPBL</b>
	Green	<b>HBLCORDCLAMPGN</b>
	Orange	<b>HBLCORDCLAMPOR</b>
	Purple	<b>HBLCORDCLAMPPP</b>
	Red	<b>HBLCORDCLAMP R</b>
	Yellow	<b>HBLCORDCLAMPY</b>

Note: \*Clamp only. Contains no screws. Order in increments of 10. Not UL Listed or CSA Certified.



# Straight Blade Devices



## 15A, 125V, 2 Pole, 2 Wire Non-Grounding, Valise® Plugs

**IP20**  
SUITABILITY

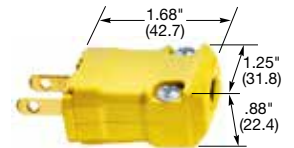


**15A 125V**  
NEMA 1-15R  
UL CSA  
0.5 HP

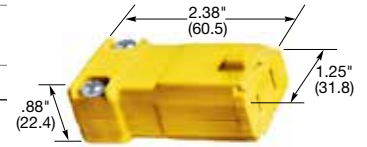


**15A 125V**  
NEMA 1-15P  
UL CSA  
0.5 HP

Description	Cord Diameter	Catalog Number
Yellow nylon, non-polarized.	.218"-.385" (5.5-9.8)	- <b>HBL5865VY</b>
Yellow nylon, polarized.	.218"-.385" (5.5-9.8)	- <b>HBL5866VY</b>
Black nylon, polarized.	Type 17/2 "SVT" cord	- <b>HBL5867VBLK</b>



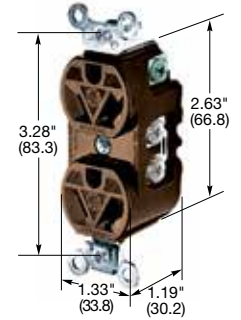
**HBL5865VY**



**HBL5866VY**

### Valise® Connector Bodies

Description	Cord Diameter	Catalog Number
Yellow nylon.	.218"-.385" (5.5-9.8)	<b>HBL5869VY</b> -



**HBL5302**



## 15A, 277V AC, 2 Pole, 3 Wire Grounding, Plugs



**15A 277V AC**  
NEMA 7-15R  
UL CSA  
2 HP



**15A 277V AC**  
NEMA 7-15P  
UL CSA  
2 HP

Description	Cord Diameter	Catalog Number
Finger grip, black elastomer.	.31"-.43" (7.9-10.9)	- <b>HBL5929*</b>



**HBL5929**

### Receptacles and Connector Bodies

Description	Cord Diameter	Catalog Number
Receptacle, flush duplex, brown, back and side wired.	-	<b>HBL5302</b> -
Connector Body, phenolic and steel body.	.296"-.625" (7.5-15.9)	<b>HBL5324</b> -

Note: \*Not UL Listed.  
Horsepower ratings are AC only.  
See pages A-46 and A-47 for accessories.



## 20A, 250V, 2 Pole, 2 Wire Non-Grounding, Valise® Plugs

**IP20**  
SUITABILITY



**20A 250V**  
NEMA 2-20R  
UL Listed  
2 HP



**20A 250V**  
NEMA 2-20P  
UL Listed  
2 HP

Description	Cord Diameter	Catalog Number
Yellow nylon.	.220"-.660" (5.6-16.8)	- <b>HBL9758VY</b>

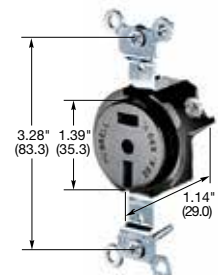


**HBL9758VY**

### Receptacle, Single

Description	Catalog Number
Black phenolic.	<b>HBL5552B</b> -

Note: Horsepower ratings are AC only and apply to plugs and receptacles only.  
See pages A-46 and A-47 for accessories.



**HBL5552B**

Dimensions in Inches (mm)

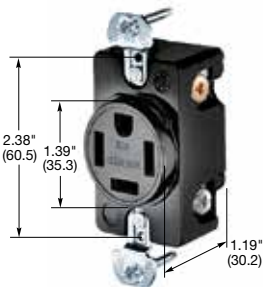
# Straight Blade Devices



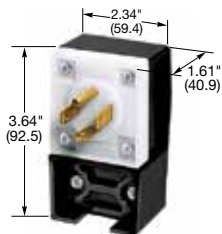
**HBL6810**



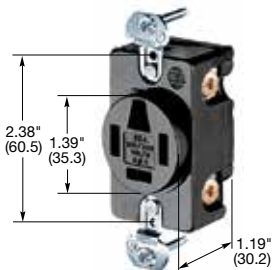
**HBL9977C**



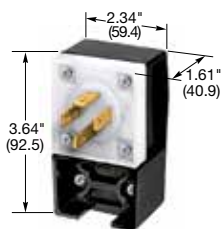
**HBL8410**



**HBL8411C**



**HBL7250**



**HBL7251C**

Dimensions in Inches (mm)



## 20A, 125/250V, 3 Pole, 3 Wire Non-Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**20A 125V/250V  
NEMA 10-20R**  
UL Listed  
2(1) HP



**20A 125V/250V  
NEMA 10-20P**  
UL Listed  
2(1) HP

Description	Cord Diameter	Catalog Number
Receptacle, black phenolic.	—	<b>HBL6810</b>
Plug, Insulgrip®, nylon.	.385"-.780" (9.8-19.8)	<b>HBL9977C</b>

Note: Horsepower ratings listed above are AC only.

Horsepower ratings not in parentheses are phase to phase (208 to 240V AC).

Those in parentheses are phase to neutral (120V AC).

See pages A-46 and A-47 for accessories.



## 20A, 125/250V, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**20A 125V/250V  
NEMA 14-20R**  
UL CSA  
2(1) HP



**20A 125V/250V  
NEMA 14-20P**  
UL CSA  
2(1) HP

Description	Cord Diameter	Catalog Number
Receptacle, black nylon body, back and side wired.	—	<b>HBL8410</b>
Plug, nylon, angle 4-position.	.390"-.775" (9.9-19.7)	<b>HBL8411C</b>

Note: See pages A-46 and A-47 for accessories.



## 20A, 3Ø 250V AC, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**20A 3Ø 250V AC  
NEMA 15-20R**  
UL CSA  
3 HP



**20A 3Ø 250V AC  
NEMA 15-20P**  
UL CSA  
3 HP

Description	Cord Diameter	Catalog Number
Receptacle, black nylon body, back and side wired.	—	<b>HBL8420</b>
Plug, nylon, angle 4-position.	.390"-.775" (9.9-19.7)	<b>HBL8421C</b>

Note: Horsepower ratings listed above are AC only.

Horsepower ratings not in parentheses are phase to phase (208 to 240V AC).

Horsepower ratings in parentheses are phase to neutral (120V AC).

See pages A-46 and A-47 for accessories.



## 20A, 3ØY 120/208V AC, 4 Pole, 4 Wire Non-Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**20A 3ØY 120/208V AC  
NEMA 18-20R**  
UL Listed  
2 HP



**20A 3ØY 120/208V AC  
NEMA 18-20P**  
UL Listed  
2 HP

Description	Cord Diameter	Catalog Number
Receptacle, black nylon body.	—	<b>HBL7250</b>
Plug, nylon, angle, 4-position.	.390"-.775" (9.9-19.7)	<b>HBL7251C</b>

Note: Horsepower ratings are phase to phase (208 to 240V AC).

Weatherproof boots for plugs not available.

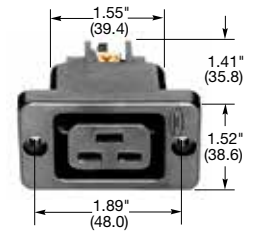
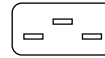
See pages A-46 and A-47 for accessories.



## Receptacle IEC 320 Compatible

Description	Catalog Number
20/16A 250V AC IEC straight blade.	<b>H320R</b>
For Ring Terminal connection.	<b>H320RRT*</b>

Note: \*Not UL Listed.



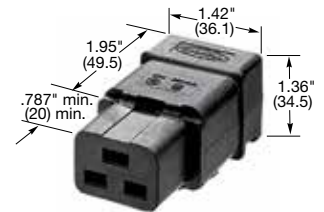
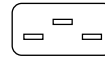
**H320R**



## Connectora

**IP20**  
SUITABILITY

Description	Catalog Number
20/16A 250V AC IEC straight blade.	<b>H320C</b>



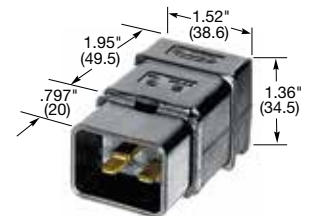
**H320C**



## Plug IEC 320 Compatible

**IP20**  
SUITABILITY

Description	Catalog Number
20/16A 250V AC IEC straight blade.	<b>H320P</b>

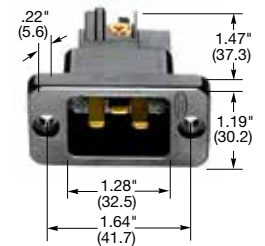


**H320P**

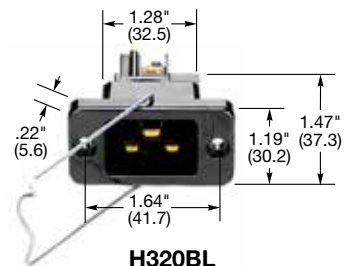


## Inlets

Description	Catalog Number
20/16A 250V AC IEC straight blade.	<b>H320B</b>
20/16A 250V AC IEC straight blade with retention clamp.	<b>H320BL</b>



**H320B**



**H320BL**

Dimensions in Inches (mm)

# Straight Blade Devices



**UGRO20231**



## Acceptor® Hazardous Location Receptacles



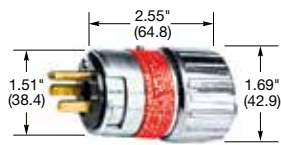
**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

Description	Catalog Number	
Explosion and dust ignition proof.	-	<b>UGRO20231</b>
Class I, Div. 1 & 2, Groups C, D	-	<b>UGRA20231*</b>
Class II, Div. 1 & 2, Groups F, G		
Class III		
NEMA® 3, 7 B C D, 9 F G		

Note: \*UGRA version includes an adapter plate for mounting to Crouse-Hinds® EDS series and Appleton® EFD series back boxes.  
UL Listed for Class 1, Div. 2, Groups B, C, D.



**UGP15231**



## Acceptor® Hazardous Location Plugs

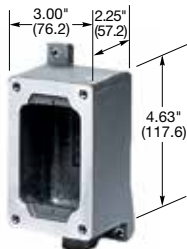


**15A 125V**  
NEMA 5-15P  
UL CSA



**20A 125V**  
NEMA 5-20P  
UL CSA

Description	Catalog Number	
Explosion and dust ignition proof.	<b>UGP15231</b>	<b>UGP20231</b>
Class I, Div. 1 & 2, Groups B, C, D		
Class II, Div. 1 & 2, Groups E, F, G		
Class III		
NEMA® 3, 7 B C D, 9 F G		



**SWB1**

## SWB Series Boxes

Hub Size	1-Gang Dead End	1-Gang Feed Thru
½ in. NPT	<b>SWB1</b>	<b>SWB4</b>
¾ in. NPT	<b>SWB2</b>	<b>SWB5</b>
Class I, Div. 1 & 2, Groups C, D		
Class II, Div. 1 & 2, Groups E, F, G		
Class III		
NEMA® 7 C D, 9 E F G		

Note: SWB series boxes will only accommodate Acceptor Series receptacles, not standard weatherproof covers.



**SWB5**

Dimensions in Inches (mm)

NEMA® is a registered trademark of the National Electrical Manufacturers Association.



## 30A, 125V, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

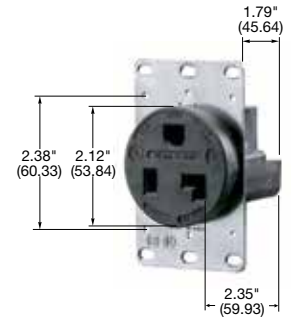


**30A 125V**  
NEMA 5-30R  
UL CSA  
2 HP



**30A 125V**  
NEMA 5-30P  
UL CSA  
2 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP.	-	<b>HBL9308</b>	-
Receptacle, orange, isolated ground <sup>A</sup> .	-	<b>IG9308</b>	-
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.1)	-	<b>HBL9309*</b>



**HBL9308**

## 30A, 125V, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

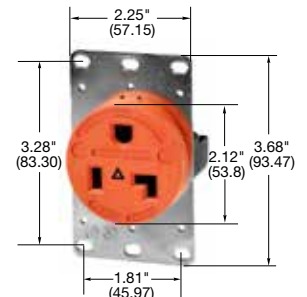


**30A 125V**  
NEMA TT-30R  
UL Listed  
2 HP



**30A 125V**  
NEMA TT-30P  
UL Listed  
2 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP. Travel Trailer use only.	-	<b>HBLTT30R</b>	-
Plug, nylon, angle. Travel Trailer use only.	.625"-1.187" (15.9-30.1)	-	<b>HBLTT30P</b>



**IG9308**

## 30A, 250V, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

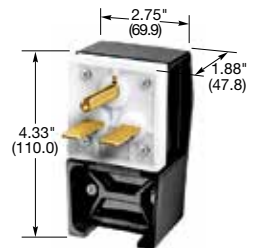


**30A 250V**  
NEMA 6-30R  
UL CSA  
2 HP



**30A 250V**  
NEMA 6-30P  
UL CSA  
2 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP.	-	<b>HBL9330</b>	-
Receptacle, orange, isolated ground <sup>A</sup> .	-	<b>IG9330</b>	-
Plug, nylon, angle, 4-position	.625"-1.187" (15.9-30.1)	-	<b>HBL9331*</b>



**HBL9331**

## 30A, 277V AC, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

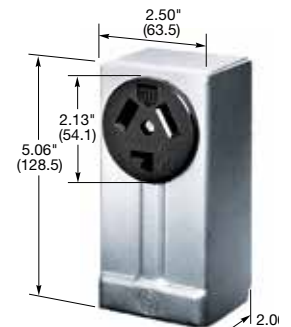


**30A 277V AC**  
NEMA 7-30R  
UL CSA  
3 HP



**30A 277V AC**  
NEMA 7-30P  
UL CSA  
3 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP.	-	<b>HBL9315</b>	-
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.1)	-	<b>HBL9319*</b>



**HBL9395**

## 30A, 125/250V, 3 Pole, 3 Wire Non-Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

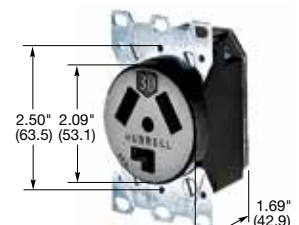


**30A 125/250V**  
NEMA 10-30R  
UL Listed  
2(2) HP



**30A 125/250V**  
NEMA 10-30P  
UL Listed  
2(2) HP

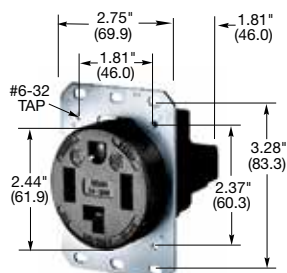
Description	Cord Diameter	Catalog Number	
Receptacle, black phenolic.	-	<b>HBL9350</b>	-
Receptacle, surface mount aluminum housing.	-	<b>HBL9395</b>	-
Plug, Insulgrip®, nylon.	.625"-1.00" (15.9-25.4)	-	<b>HBL9337C</b>
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.1)	-	<b>HBL9333</b>



**HBL9350**

Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
<sup>A</sup>See section M for additional information on isolated ground devices.  
 \*Not Fed. Spec. Listed.  
 See page A-48 for accessories.

Dimensions in Inches (mm)



**HBL9430A**

## 30A, 125/250V, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

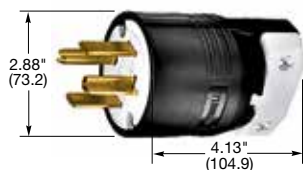


**30A 125/250V**  
NEMA 14-30R  
2(2) HP



**30A 125/250V**  
NEMA 14-30P  
2(2) HP

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL9430A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	- <b>HBL9431C</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	- <b>HBL9432C</b>



**HBL9431C**

## 30A, 3Ø 250V AC, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

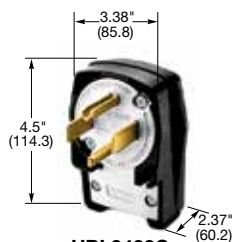


**30A 3Ø 250V AC**  
NEMA 15-30R  
3 HP



**30A 3Ø 250V AC**  
NEMA 15-30P  
3 HP

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL8430A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	- <b>HBL8431C</b>
Plug, nylon, angle, 4-position	.625"-1.310" (15.9-33.3)	- <b>HBL8432C</b>



**HBL9432C**



## 30A, 3ØY 120/208V AC, 4 Pole, 4 Wire Non-Grounding, Receptacles and Plugs

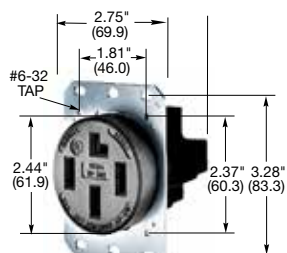
**IP20**  
SUITABILITY



**30A 3ØY**  
**120/208V AC**  
NEMA 18-30R  
UL Listed  
3 HP



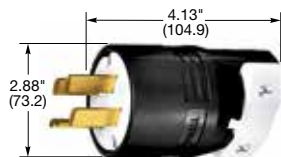
**30A 3ØY**  
**120/208V AC**  
NEMA 18-30P  
UL Listed  
3 HP



**HBL8330A**

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL8330A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	- <b>HBL8331C</b>

*Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
See page A-49 for accessories.*



**HBL8331C**

Dimensions in Inches (mm)

## 50A, 125V, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

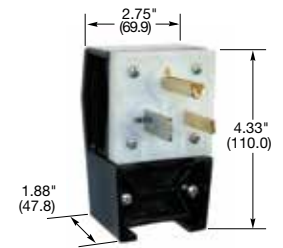


**50A 125V**  
NEMA 5-50R  
UL CSA  
2 HP



**50A 125V**  
NEMA 5-50P  
UL CSA  
2 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP.	-	<b>HBL9360</b>	-
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.2)	-	<b>HBL9361</b>



**HBL9361**

## 50A, 250V, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

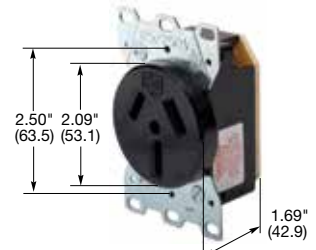


**50A 250V**  
NEMA 6-50R  
UL CSA  
3 HP



**50A 250V**  
NEMA 6-50P  
UL CSA  
3 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP.	-	<b>HBL9367</b>	-
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.2)	-	<b>HBL9368</b>



**HBL7962**

## 50A, 277V AC, 2 Pole, 3 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

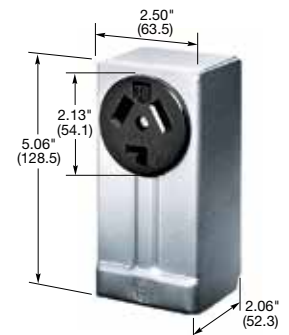


**50A 277V AC**  
NEMA 7-50R  
UL CSA  
5 HP



**50A 277V AC**  
NEMA 7-50P  
UL CSA  
5 HP

Description	Cord Diameter	Catalog Number	
Receptacle, black RTP.	-	<b>HBL9365</b>	-
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.2)	-	<b>HBL9379</b>



Representative of surface mount receptacle

## 50A, 125/250V, 3 Pole, 3 Wire Non-Grounding, Receptacles, Connector Body and Plugs

**IP20**  
SUITABILITY

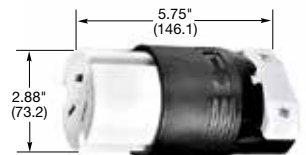


**50A 125/250V**  
NEMA 10-50R  
UL Listed  
3(2) HP

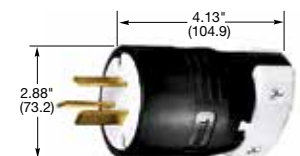


**50A 125/250V**  
NEMA 10-50P  
UL Listed  
3(2) HP

Description	Cord Diameter	Catalog Number	
Receptacle, black phenolic.	-	<b>HBL7962</b>	-
Receptacle, surface mount aluminum housing.	-	<b>HBL7940</b>	-
Connector body, Insulgrip, nylon.	.625"-1.218" (15.9-30.9)	<b>HBL7515C</b>	-
Plug, Insulgrip, nylon.	.625"-1.218" (15.9-30.9)	-	<b>HBL7513C</b>
Plug, nylon, angle, 4-position.	.625"-1.187" (15.9-30.2)	-	<b>HBL7977</b>



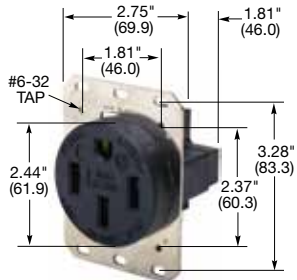
**HBL7515C**



**HBL7513C**

Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
See page A-48 for accessories.

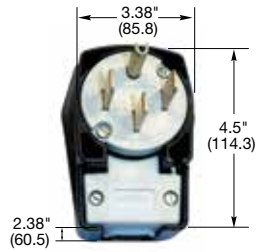
Dimensions in Inches (mm)



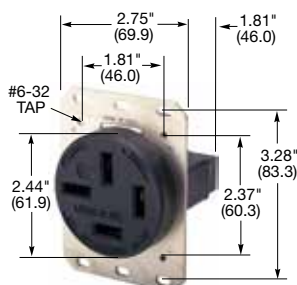
**HBL9450A**



**HBL9451C**



**HBL9452C**



**HBL8350A**

## 50A, 125/250V, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**50A 125/250V**  
NEMA 14-50R  
UL CSA  
3(2) HP



**50A 125/250V**  
NEMA 14-50P  
UL CSA  
3(2) HP

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL9450A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	- <b>HBL9451C</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	- <b>HBL9452C</b>

## 50A, 3Ø 250V AC, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**50A 3Ø 250V AC**  
NEMA 15-50R  
UL CSA  
7.5 HP



**50A 3Ø 250V AC**  
NEMA 15-50P  
UL CSA  
7.5 HP

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL8450A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	- <b>HBL8451C</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	- <b>HBL8452C</b>



## 50A, 3ØY 120/208V AC, 4 Pole, 4 Wire Non-Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**50A 3ØY**  
120/208V AC  
NEMA 18-50R  
UL Listed  
7.5 HP



**50A 3ØY**  
120/208V AC  
NEMA 18-50P  
UL Listed  
7.5 HP

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL8350A</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	- <b>HBL8352C</b>

*Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
See page A-49 for accessories.*

Dimensions in Inches (mm)



## 60A, 125/250V, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

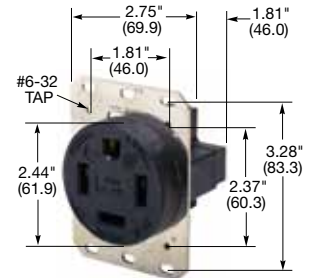


**60A 125/250V  
NEMA 14-60R  
UL CSA  
3(2) HP**



**60A 125/250V  
NEMA 14-60P  
UL CSA  
3(2) HP**

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL9460A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	<b>HBL9461C</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	<b>HBL9462C</b>



**HBL9460A**

## 60A, 3Ø 250V AC, 3 Pole, 4 Wire Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY



**60A 3Ø 250V AC  
NEMA 15-60R  
UL CSA  
10 HP**



**60A 3Ø 250V AC  
NEMA 15-60P  
UL CSA  
10 HP**

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL8460A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	<b>HBL8461C</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	<b>HBL8462C</b>



**HBL8461C**



**HBL8462C**

## 60A, 3ØY 120/208V AC, 4 Pole, 4 Wire Non-Grounding, Receptacles and Plugs

**IP20**  
SUITABILITY

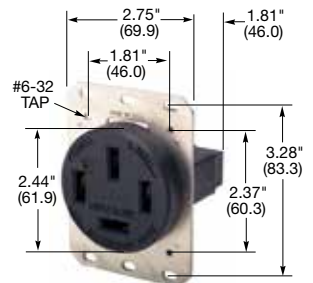


**60A 3ØY  
120/208V AC  
NEMA 18-60R  
UL Listed  
7.5 HP**



**60A 3ØY  
120/208V AC  
NEMA 18-60P  
UL Listed  
7.5 HP**

Description	Cord Diameter	Catalog Number
Receptacle, black RTP.	-	<b>HBL7301A</b>
Plug, nylon.	.625"-1.310" (15.9-33.3)	<b>HBL7303C</b>
Plug, nylon, angle, 4-position.	.625"-1.310" (15.9-33.3)	<b>HBL7302C</b>



**HBL7301A**

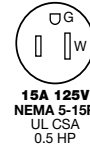
Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
See page A-49 for accessories.

Dimensions in Inches (mm)

# Straight Blade Devices

## Miscellaneous and Combination Receptacles

2 Pole, 3 Wire Grounding



### Miscellaneous Receptacles



HBL5236

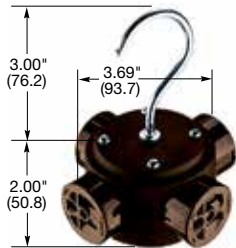


HBL5235

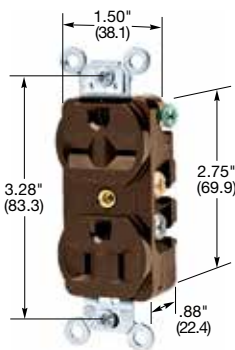
Description	Catalog Number
Receptacle, display type, brown phenolic with .060 in. brass plate and blank flush plug.	<b>HBL5236</b>
Replacement receptacle for HBL5236.	<b>HBL5236M2</b>
Replacement threaded plug for HBL5236.	<b>HBL5236PLUG*</b>
Receptacle, wooden floors, brown phenolic with .060 in. brass plate, blank flush plug and box.	<b>HBL6236</b>
Receptacle, clock hanger, brown with stainless steel plate.	<b>HBL5235</b>
Four outlet cluster, brown phenolic, steel cover, swivel hook. Cord grip range .296-.562 in. (7.5-14.3) cord not supplied.	<b>HBL9259*</b>

Note: \*Not UL Listed or CSA certified.














### Special Combination Duplex Receptacles



HBL9259



HBL5292

Description	Catalog Number
15A, 125V  Brown RTP, 1 feed, 1 return, back/side wired	<b>HBL4792</b>
 Brown RTP, 2 feeds, 1 return, side wired	<b>HBL4794</b>
15A, 125V  Brown RTP, 2 feeds, 2 returns, side wired	<b>HBL4795</b>
15A, 250V  Brown nylon face, 2 circuit, back and side wired	<b>HBL5292</b>
15A, 125V  Ivory nylon face, 2 circuit, back and side wired	<b>HBL5292I</b>
20A, 250V  Brown nylon face, 2 circuit, back and side wired	<b>HBL5492</b>
 Ivory nylon face, 2 circuit, back and side wired	<b>HBL5492I</b>
20A, 125V  Brown RTP, 2 feeds, 1 return, common ground	<b>HBL7371</b>
10A, 250V  Brown RTP, 2 feeds, 1 return, common ground	<b>HBL7371</b>
10A, 250V  Brown RTP, 2 feeds, 1 return, common ground	<b>HBL7371</b>
15A, 125V  Brown RTP, 2 feeds, 1 return, common ground	<b>HBL7371</b>
20A, 125V  Brown nylon, side and back wired	<b>HBL5392</b>
20A, 125V  Brown nylon, side and back wired	<b>HBL5392</b>

Note: This device will only accept 20A grounding plugs.

Note: RTP is an abbreviation for reinforced thermoplastic polyester.

\*Not UL Listed or CSA certified.

See page A-46 for accessories.

Dimensions in Inches (mm)

# Straight Blade Devices

## Accessories

For 15 and 20 Ampere, 125 and 250 Volts and 277 Volts AC Devices



### Wallplates, 1-Gang

Description	Color	Duplex Receptacles Catalog Number	Style Line® Receptacles Catalog Number	Single Receptacle Plate 1.40 in. (35.6) Dia. Catalog Number
Nylon, smooth.	Almond	<b>NP8AL</b>	<b>NP26AL</b>	<b>NP7AL</b>
	Black	<b>NP8BK</b>	<b>NP26BK</b>	<b>NP7BK</b>
	Brown	<b>NP8</b>	<b>NP26</b>	<b>NP7</b>
	Gray	<b>NP8GY</b>	<b>NP26GY</b>	<b>NP7GY</b>
	Ivory	<b>NP8I</b>	<b>NP26I</b>	<b>NP7I</b>
	Light Almond	<b>NP8LA</b>	<b>NP26LA</b>	<b>NP7LA</b>
	Office White	<b>NP8OW</b>	<b>NP26OW</b>	<b>NP7OW</b>
	Orange	<b>NP8OR</b>	-	-
	Red	<b>NP8R</b>	<b>NP26R</b>	<b>NP7R</b>
	White	<b>NP8W</b>	<b>NP26W</b>	<b>NP7W</b>
Stainless steel 302/304, .035 in. (0.9) horizontal brushed finish.		<b>SS8</b>	<b>SS26</b>	<b>SS7</b>
Brass .04 in. (1.0), horizontal brushed finish.		<b>SB8</b>	<b>SB26</b>	<b>SB7</b>
Aluminum .05 in. (1.3), horizontal brushed finish.		<b>SA8</b>	-	<b>SA7</b>



NP8



NP26I



SS7

### Weatherproof Covers

Description	Duplex Receptacles Catalog Number	Single Receptacle Plate 1.40 in. (35.6) Dia. Catalog Number
RTP, gray, for FS/FD box mounting.	<b>HBL5221</b>	<b>HBL7423WO</b>
RTP, yellow, for FS/FD box mounting.	<b>HBL52CM21</b>	<b>HBL74CM23WO</b>
RTP, gray, for device mounting.	<b>HBL5222</b>	-
RTP, yellow, for device mounting.	<b>HBL52CM22</b>	-
Cast aluminum for FS/FD box mounting.	<b>HBL5206WO</b>	<b>HBL7420</b>
Cast aluminum for device mounting.	<b>HBL5205WO</b>	-

Note: All weatherproof plates are UL Listed for Wet Locations.  
 Those with suffix WO are listed for use with cover open, all others with cover closed.  
 RTP is an abbreviation for reinforced thermoplastic polyester.  
 See section N for additional information on cover plates.



HBL52CM22



HBL5206WO



HBL7423WO

Dimensions in Inches (mm)

# Straight Blade Devices

## Accessories

For 15 and 20 Ampere, 125 and 250 Volts and 277 Volts AC Devices



**WP1**



### Weatherproof Covers For Nylon Flanged Inlets and Flanged Receptacles

**IP44**  
SUITABILITY

Description	Catalog Number
RTP, gray, for FS/FD box mounting.	<b>WP1</b>

*Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
See page N-23 for additional information on weatherproof covers.*



**HBL6017**

**IP55\***  
SUITABILITY

### Weatherproof Boots

Description	Catalog Number
Seal-Tite® triple seal, black elastomer cover for Insulgrip® plugs (HBL5266C style), when used in a cord set, and connector bodies (HBL5269C style), when used with flanged inlets.	<b>HBL6017</b>



**HBL6018**

Same as above except yellow.	<b>HBL60CM17</b>
------------------------------	------------------

Seal-Tite® triple seal black elastomer cover for Insulgrip® connector bodies when used in a cord set.	<b>HBL6018</b>
---	----------------

Same as above except yellow.	<b>HBL60CM18</b>
------------------------------	------------------

Closure plug, black.	<b>HBL6019</b>
----------------------	----------------

Closure plug, yellow.	<b>HBL60CM19</b>
-----------------------	------------------

*Note: \*IP55 when installed and used properly with mating components.  
Boots are not UL Listed or CSA Certified.*



**HBL60CM19**  
Shown with HBL6018



**HLDMP**

### PLUGOUT® Device

Description	Catalog Number
Electrical plug lockout devices for 15 and 20A straight blade plugs.	<b>HLDMP**</b>
PLUGOUT® Lockout device for 20 and 30A Hubbell plugs and others.	<b>HLD**</b>

*Note: \*\*Not UL Listed or CSA Certified.  
See section Z for additional information on lockout devices.*



**HLD**

### Inserts

Description	Catalog Number
Replacement cord grip inserts for Valise® device, (bag of 40).	<b>HBLVCGBK**</b>

*Note: \*\*Not UL Listed or CSA Certified.*

Dimensions in Inches (mm)



# Straight Blade Devices

## Accessories

For 3 Wire 30 and 50 Ampere, 125 and 250 Volts and 277 Volts AC



### Wallplates

Description	Color	Single Receptacle Plate 2.16 in. (54.9) Dia. Catalog Number
Nylon, smooth, 1-gang.	Black	<b>NP724BK</b>
Nylon, smooth, 2-gang.	Black	<b>NP703BK</b>
Aluminum, .05 in. (1.3), 1-gang, smooth horizontal brushed finish.		<b>SA723</b>
Stainless steel 302/304, .035 in. (0.9), 1-gang, smooth horizontal brushed finish.		<b>SS723</b>
Stainless steel 302/304, .035 in. (0.9), 2-gang, smooth horizontal brushed finish.		<b>SS703</b>



**SS723**



**SS703**



**IP44**  
SUITABILITY

### Weatherproof Lift Covers

Description	Catalog Number
Cast aluminum for FS/FD box mounting for 30A.	<b>HBL9420</b>
Cast aluminum for FS/FD box mounting for 50A.	<b>HBL9425</b>



**HBL9420**

### PLUGOUT® Device

Description	Catalog Number
Electrical plug lockout device for 30, 50 and 60A devices.	<b>HLD2</b>

Note: See section Z for additional information on lockout devices.



**HLD2**

Dimensions in Inches (mm)

# Straight Blade Devices

## Accessories

For 4 Wire 30, 50 and 60 Ampere, 125/250 Volts, 3Ø 250 and 3ØY 120/208 Volts AC



SS701



### Wallplates, 2-Gang

#### Description

Brass .04 in. (1.0), brushed, smooth.  
Stainless steel 302/304, .035 in. (0.9),  
smooth horizontal brushed finish.

Single Receptacle Plate  
2.48 in. (63.0) Dia.  
Catalog Number

**SB701**

**SS701**



HBL7777A



**IP44**  
SUITABILITY

### Weatherproof Lift Covers

#### Description

RTP, gray, lift cover plate. Will fit FS/FD boxes having plate mounting  
hole 3.25 in. x 3.75 in. (82.5 x 95.2), centers. Only for use with  
receptacles on pages A-40 to A-43 with "A" suffix.

Same as above except yellow.

*Note: RTP is an abbreviation for reinforced thermoplastic polyester.*

Catalog Number

**HBL7777A**

**HBL77CM77A**



HLD2

### PLUGOUT® Device

#### Description

Electrical plug lockout device for 30, 50 and 60A devices.

*Note: See section Z for additional information on lockout devices.*

Catalog Number

**HLD2**

Dimensions in Inches (mm)

# Straight Blade Devices

## Technical Information

### HBL® Extra Heavy Duty, Straight Blade Hospital Grade Duplex Receptacles



HBL8200GY

### Specifications

Receptacles	Part	Description
Typical Specification – Catalog No. HBL8200	Receptacle	15A
Manufacturer's Identification – Hubbell HBL8200	Top	PBT*
Description – Hospital Grade, Straight Blade Duplex Receptacle	Base	RTP**
Type – 2 Pole, 3 Wire, Grounding	By-Pass Power Contacts	.037 in. (.9) Brass – Nickel Finish
Rating – 15A, 125V	Clamping Plate	.031 in. (.8) Brass – Nickel Finish
Certification: UL Listed to UL 498 File E2186, Fed. Spec. WC596,	Mounting Strap	.050 in. (1.3) Brass – Nickel Finish
Hospital Grade, NEMA® WD-6 Compliant	Line Terminal Screws	#10-32 Silicone Bronze, Multiple Drive
Certified to CSA, C22.2, No. 42 File 285	Hex Head Grounding Screw	#10-32 (Green) Silicon Bronze, Multiple Drive
	Center Assembly Rivet	Silicon Bronze
	Automatic Self-Grounding Clip	Stainless Steel
	Flat Head Mounting Screws	Stainless Steel

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V or 250V as rated.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green).
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	UL 94V-0 and UL 94-5 VA.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: \*Polybutylene Terephthalate.

\*\*Reinforced Thermoplastic Polyester.

NEMA® is a registered trademark of the National Electrical Manufacturers Association.

# Straight Blade Devices

## Technical Information

### HBL® Extra Heavy Duty, Straight Blade Specification Grade Duplex Receptacles



HBL5262

### Specifications

Receptacles	Part	Description
Typical Specification – Catalog No. HBL5262	Receptacle	15A
Manufacturer's Identification – Hubbell HBL5262	Top	Nylon
Description – Heavy Duty Straight Blade Duplex Receptacle	Base	RTP*
Type – 2 Pole, 3 Wire, Grounding	By-Pass Power Contacts	.037 in. (.9) Brass
Rating – 15A, 125V	Wire Clamps	.031 in. (.8) Brass
Certification: UL Listed to UL498 File E2186, Guide RTRT	Mounting Strap	.050 in. (1.3) Brass
Fed. Spec. WC596, Meets NEMA® WD-6 Compliant	Line Terminal Screws	#10-32 Brass, Multiple Drive
Certified to CSA, C22.2, No. 42 File 285	Ground Screw	#10-32 Brass, Multiple Drive (Green)
	Center Assembly Rivet	Brass
	Automatic Self-Grounding Clip	Stainless Steel
	Flat Head Mounting Screws	Steel-Zinc Plated
	Ground Tension Clips	Steel-Nickel Finish

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V or 250V as rated.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green).
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	Top: UL 94V-2. Base: UL 94V-0 and UL 94-5 VA.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: \*Reinforced Thermoplastic Polyester.

# Straight Blade Devices

## Technical Information

### HBL® Compact Extra Heavy Duty, Specification Grade Receptacles



HBL5252

### Specifications

Receptacles	Part	Description
Typical Specification – Catalog No. HBL5252	Receptacle	15A
Manufacturer's Identification – Hubbell HBL5252	Top	Nylon
Description – Straight Blade Duplex Receptacle	Base	RTP*
Type – 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	.032 in. (.8) Brass
Rating – 15A, 125V	Wire Clamps	.062 in. (1.8) Steel
Certification – UL Listed to UL 498 File E2186, Fed. Spec. WC596, Certified to CSA 22.2, No. 42 File 285	Mounting Strap	.050 in. (1.3) Brass
	Line Terminal Screws	#8-32 Brass, Multiple Drive
	Ground Screw	#8-32 Brass, Multiple Drive (Green)
	Center Assembly Rivet	Brass
	Automatic Self-Grounding Clip	Stainless Steel
	Flat Head Mounting Screws	Steel-Zinc Plated

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V or 250V as rated.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 (Brass, White, Green).
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: \*Reinforced Thermoplastic Polyester.

Please consult the factory for product dimensions and specifications of other products listed in this catalog.



# Straight Blade Devices

## Technical Information

### HBL® Compact Heavy Duty Style Line®, Specification Grade and Hospital Grade Straight Blade Duplex Receptacles



HBL2152



HBL2172

### Specifications

Receptacle	Part	Description
Typical Specification – Catalog No. HBL2152	Receptacle	15A
Manufacturer's Identification – Hubbell HBL2152 Receptacle	Top	Nylon
Description – Straight Blade Duplex Receptacle	Base	Nylon
Type – 2 Pole, 3 Wire Grounding	Triple Wipe Power Contacts	.031 in. (.8) Brass
Rating – 15A, 125V	Wire Clamp	.062 in. (1.8) Steel-Nickel Finish
Certification – UL File No. E2186	Mounting Strap	.050 in. (1.3) Galvanized Steel
Certified to CSA File No. 285	Ground Contact	.031 in. (.8) Brass
	Line Terminal Screws	#8-32 Brass, Multiple Drive
	Ground Screw	#8-32 Brass, Multiple Drive
	Automatic Self-Grounding Staple	Stainless Steel
	Mounting Screws	Zinc Plated Steel
Receptacle	Part	Description
Typical Specification – Catalog No. HBL2172	Receptacle	15A
Manufacturer's Identification – Hubbell HBL2182 Receptacle	Top	Nylon
Description – Straight Blade Duplex Receptacle	Base	RTP*
Type – 2 Pole, 3 Wire Grounding	Triple Wipe Power Contacts	.031 in. (.8) Brass
Rating – 15A, 125V	Wire Clamp	.062 in. (1.8) Steel-Nickel Finish
Certification – UL Listed to UL498 File E2186,	Mounting Strap	.050 in. (1.3) Galvanized Steel
Fed. Spec. WC596, Certified to CSA File No. 285	Ground Contact	.031 in. (.8) Brass
	Line Terminal Screws	#8-32 Brass, Multiple Drive
	Ground Screw	#8-32 Brass, Multiple Drive
	Automatic Self-Grounding Staple	Stainless Steel
	Mounting Screws	Zinc Plated Steel

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green).
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: \*Reinforced Thermoplastic Polyester.

Please consult the factory for product dimensions and specifications of other products listed in this catalog.

# Straight Blade Devices

## Technical Information



### SNAPConnect® Straight Blade Duplex Receptacles Specification Grade and Hospital Grade

#### Specifications

Receptacle	Part	Description
Typical Specification – Catalog No. SNAP8200	Receptacle	15A
Manufacturer's Identification – Hubbell SNAP8200	Top	Nylon
Description – Straight Blade Duplex Receptacle	Base	Nylon
Type – 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	Brass
Rating – 15A, 125V	Mounting Strap	Galvanized Steel; Brass (HG)
Certification – UL Listed to UL 498	Automatic Self-Grounding Clip	Stainless Steel
Fed. Spec. WC596, Certified to CSA 22.2, No. 42	Flat Head Mounting Screws	Steel-Zinc Plated/Self Tapping

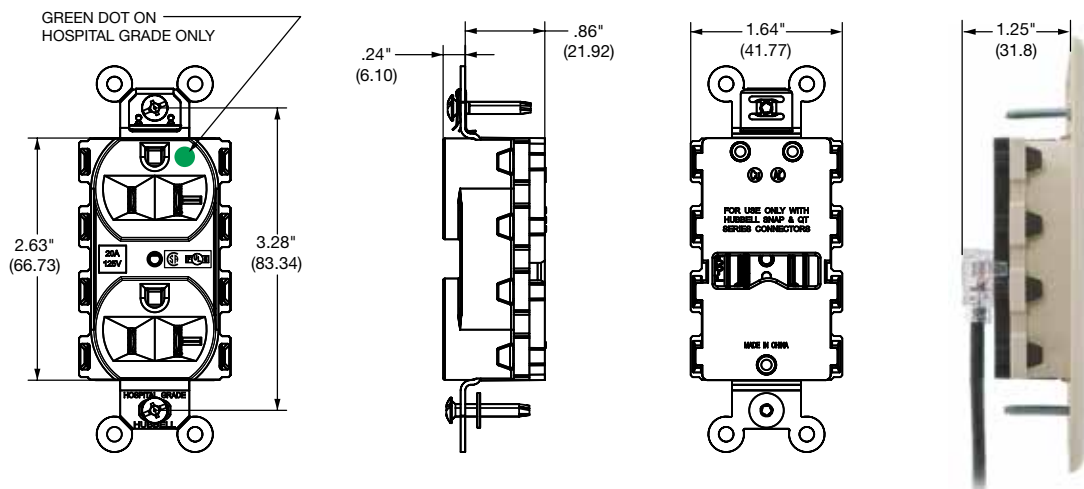
  

Connector	Contact	Connector Body	Wire
SNAP1RA	Brass	Clear Polycarbonate	6" Solid copper #12 AWG THHN/THWN-2 600V, T90 Nylon FT-1, PVC 90°C (min).
SNAP2RA	Brass	Clear Polycarbonate	6" Stranded copper #12 AWG THHN/THWN-2 600V, T90 Nylon FT-1, PVC 90°C (min).

#### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V as rated.
Current Interrupting	Receptacle certified for current interrupting at full rated current with equivalently rated NEMA® plug.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated DC current.
Mechanical	
Terminal Wire Leads Identification	Terminal wire leads identified in accordance with UL 498 (Black, White, Green).
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (without impact).

#### Dimensions

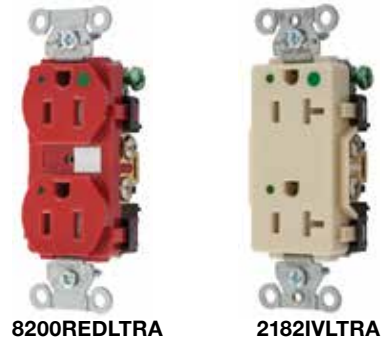


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# Straight Blade Devices

## Technical Information

### Hubbell-PRO Heavy Duty, Straight Blade Hospital Grade Duplex Receptacles



### Specifications

Receptacle	Part	Description
Typical Specification - Catalog No. 8200	Receptacle	15A
Manufacturer's Identification - Hubbell-PRO 8200	Top	Nylon
Description - Straight Blade Hospital Grade Duplex Receptacle	Base	Nylon
Type - 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	.0295 in. Brass
Rating - 15A, 125V	Clamping Plate	Plated Steel
Certification - UL Listed to UL 498, Fed. Spec. WC596	Mounting Strap	.040 in. Galvanized Steel
Hospital Grade, NEMA® WD-6 Compliant	Terminal Screws	Plated Steel
Certified to CSA	Hex Head Grounding Screw	Plated Steel
	Automatic Self-Grounding Staple	Stainless Steel
	Mounting Screws	Zinc Plated Steel

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green)
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

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# Straight Blade Devices

## Technical Information

### USB Charger Tamper-Resistant, Straight Blade Hospital Grade and Specification Grade Duplex Receptacles



USB8300C5R



USB15AC5W

### Specifications

USB Charger Receptacle	Part	Description
Typical Specification - Catalog No. USB8300A5	Charger Receptacle	Electrical 20 Amp 125V AC USB 5.0 Amp 5V DC
Manufacturer's Identification - Hubbell USB8300A5	Ports	Type A, 2.0
Available Type USB Charger: A, A&C and C	LED	Green Indicator
Receptacle	Top	Nylon
Description - Hospital Grade, Straight Blade Duplex Receptacle	Base	Nylon
Type - 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	.030 in. Cooper Alloy
Rating - 20 Amp, 125V AC, USB 3 Amp, 5V DC	Clamping Plate	Plated Steel
Certification - cULus Listed to UL498 and UL1310	Mounting Strap	.040 in. Galvanized Steel
Hospital Grade, NEMA® WD-6 Compliant (USB8200 and 8300 series only)	Terminal Screws	Plated Steel
Complies with battery charging specification USB BC1.2	Hex Head Grounding Screw	Plated Steel
Complies with Part 15 of the FCC rules	Automatic Self-Grounding Staple	Stainless Steel
Compatible with USB 1.1/2.0/3.0 devices, including Apple products	Mounting Screws	Zinc Plated Steel

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
USB Port	Stainless Steel Rated for 10,000 plug insertions and removal
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green)
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Circuit Feed-Through	20 Amp 125 Volt
Environmental - Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

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# Straight Blade Devices

## Technical Information

### Hubbell-PRO Heavy Duty, Straight Blade Specification Grade Duplex Receptacles



## Specifications

Receptacle, Smooth Nylon Face	Part	Description
Typical Specification – Catalog No. 5252A	Receptacle	15A
Manufacturer's Identification – Hubbell 5252A Receptacle	Top	Nylon
Description – Straight Blade Duplex Receptacle	Base	RTP*
Type – 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	.031 in. (.8) Brass
Rating – 15A, 125V	Wire Clamp	.062 in. (1.8) Steel-Nickel Finish
Certification – UL Listed to UL498 File E2186	Mounting Strap	.040 in. (1) Galvanized Steel
Certified to CSA File No. 285	Ground Contact	.031 in. (.8) Brass
NEMA® WD-6 Compliant	Line Terminal Screws	#8-32 Brass, Multiple Drive
	Ground Screw	#8-32 Brass, Multiple Drive
	Center Assembly Staple	.040 in. (1) Galvanized Steel
	Automatic Self-Grounding Staple	Stainless Steel
	Mounting Screws	Zinc Plated Steel
Receptacle, Finder Groove Face	Part	Description
Typical Specification – Catalog No. 5262	Receptacle	15A
Manufacturer's Identification – Hubbell 5262 Receptacle	Top	Nylon
Description – Straight Blade Duplex Receptacle	Base	RTP*
Type – 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	.031 in. (.8) Brass
Rating – 15A, 125V	Wire Clamp	.062 in. (1.8) Steel-Nickel Finish
Certification – UL Listed to UL498 File E2186,	Mounting Strap	.040 in. (1) Galvanized Steel
Fed. Spec. WC596, Certified to CSA C22.2, No. 42	Ground Contact	.031 in. (.8) Brass
NEMA® WD-6 Compliant	Line Terminal Screws	#8-32 Brass, Multiple Drive
	Ground Screw	#8-32 Brass, Multiple Drive
	Center Assembly Staple	.040 in. (1) Galvanized Steel
	Automatic Self-Grounding Staple	Stainless Steel
	Mounting Screws	Zinc Plated Steel

## Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green)
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental – Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: \*Reinforced Thermoplastic Polyester.

Please consult the factory for product dimensions and specifications of other products listed in this catalog.



# Straight Blade Devices

## Technical Information



## Commercial Specification Grade Receptacles

### Specifications

Part	Standard	Weather Resistant
Top	Nylon	Nylon (UV Rated)
Base	Nylon	Nylon
Double Wipe Power Contacts	.030 in. (.8) Brass	.030 in. (.8) Brass
Wire Clamp	.062 in. (1.6) Steel-Nickel Plated	.062 in. (1.6) Steel-Nickel Plated
<b>Finish</b>		
Mounting Strap	.040 in. (1) Steel (Galvanized)	.040 in. (1) Galvanized Steel
Ground Contact	.031 in. (.8) Brass	.031 in. (.8) Brass
Line Terminal Screws	#8-32 Plated Steel, Multiple Drive	#8-32 Stainless Steel, Multiple Drive
Ground Screw	#8-32 Plated Steel, Multiple Drive	#8-32 Stainless Steel, Multiple Drive
Automatic Self-Grounding Staple	Stainless Steel	Stainless Steel
Mounting Screws	Zinc Plated Steel	Stainless Steel
<b>Certification</b>		
UL Listed	UL498	UL498
Fed. Spec.	WC596*	WC596*
Certified to CSA	C22.2, No. 42	C22.2, No. 42

### Performance

<b>Electrical</b>		
Dielectric Voltage	Withstands 2,000V minimum.	Withstands 2,000V minimum.
Max. Working Voltage	125V.	125V.
Current Interrupting	Certified for current interrupting at full rated current.	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 100 cycles of overload at 150% of rated current.	Max 30°C temperature rise at full rated current after 100 cycles of overload at 150% of rated current.
<b>Mechanical</b>		
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green).	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green).
Terminal Accommodation	#14-10 AWG stranded or solid copper conductor only.	#14-10 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.	Ratings are a permanent part of the device.
<b>Environmental – Material</b>		
Flammability	UL 94V-2.	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: \*Decorator and Commercial Tamper-Resistant devices are not Fed. Spec. Listed.

# Straight Blade Devices

## Technical Information



HBL415I

## 4-PLEX® Receptacles

### Specifications

Receptacle	Part	Description
Typical Specification – Catalog No. HBL415	Receptacle	15 or 20A
Manufacturer's Identification – Hubbell 4-PLEX HBL415	Top	Polycarbonate
Description – Straight Blade, Multiple Outlet Receptacle	Base	Polycarbonate
Type – 2 Pole, 3 Wire, Grounding	Power Contacts	.032 in. (.8) Brass
Rating 15A, 125V	Ground Contacts	.031 in. (.8) Brass
Certification – Listed to UL Standard 498 File E2186	Ground Plate	.032 in. (.8) Plated Steel
Certified to CSA 22.2, No. 42 File 285	(Hospital Grade)	.050 in. (1.3) Plated Steel
	Line and Neutral Terminal Plate	.031 in. (.8) Brass
	Line Terminal Screw	#8-32 Brass
	Ground Screw	#8-32 Brass (Green)

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V.
Current Interrupting	Capable of withstanding a fault level of 1000A, per UL498.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload current at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL498 and CSA (Brass, White, Green).
Terminal Accommodation	#14-12 AWG stranded or solid copper conductor only.
Product Identification	Ratings are a permanent part of the device.
Environmental	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).

# Straight Blade Devices

## Technical Information

### Insulgrip® Plugs and Connector Bodies



HBL5266C



HBL5269C

### Specifications

Plugs	Part	Description
Typical Specification – Catalog No. HBL5266C		Plug
Manufacturer’s Identification – Hubbell HBL5266C		Housing
Description – Straight Body Plug		Blade Holder
Type – 2 Pole, 3 Wire, Grounding		Retainer
Rating – 15A, 125V		Cord Clamp
Verified to Fed. Spec. WC596		Contact Blades
Certification – UL Listed to UL498 File E1706,		Ground Contact Blade
CSA Certified to C22.2 No. 42 File 280		Line Terminal Screws
IP Suitability – IP20		Ground Screw
		Wire Clamps
		15A
		Nylon – Black
		Nylon – Natural
		Polycarbonate – Clear
		Nylon – Natural
		.060 in. (1.5) Brass
		.040 in. (1.0) Copper Alloy
		#8-32 Brass, Multiple Drive
		#8-32 Brass, Multiple Drive (Green)
		.062 in. (1.6) Steel – Nickel Finish
Connector Bodies	Part	Description
Typical Specification – Catalog No. HBL5269C		Connector Body
Manufacturer’s Identification – Hubbell HBL5269C		Housing
Description – Straight Body Connector		Contact Holder
Type – 2 Pole, 3 Wire, Grounding		Retainer
Rating – 15A, 125V		Cord Clamp
Verified to Fed. Spec. WC596		Power Contacts
Certification – UL Listed to UL498 File E1706,		Line Terminal Screws
CSA Certified to C22.2 No. 42 File 280		Ground Screw
IP Suitability – IP20		Wire Clamps
		15A
		Nylon – Black
		Nylon – Natural
		Polycarbonate – Clear
		Nylon – Natural
		.040 in. (1.0) Copper Alloy
		#8-32 Brass, Multiple Drive
		#8-32 Brass, Multiple Drive (Green)
		.062 in. (1.6) Steel – Nickel Finish

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V or 250V as rated.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL498 and CSA (Brass, White, Green).
Terminal Accommodation	#18-10 AWG copper conductors only.
Product Identification	Ratings are a permanent part of the device.
Torque Range	12 in./lb. terminal screws, 7 in./lb. assembly screws.
Cord Diameter Range	.230–.720 in. (5.8–18.3) integral cord grip.
Environmental – Material	
Flammability	UL 94HB or better.
Operating Temperature	Maximum continuous 75°C; minimum – 40°C (w/o impact).

# Straight Blade Devices

## Technical Information

### Valise® Plugs and Connectors



HBL5965VY



HBL5969VY

### Specifications

Plugs	Part	Description
Typical Specification – Catalog No. HBL5965VY	Plug	15A
Manufacturer's Identification – Hubbell HBL5965VY	Housing	Nylon
Description – Straight Body Plug	Contact Blades	Brass
Type – 2 Pole, 3 Wire, Grounding	Ground Blade	Brass
Rating – 15A, 125V	Line Terminal Screws	Steel-Copper, Multiple Drive
Verified to Fed. Spec. WC596	Ground Screw	Steel (Green), Multiple Drive
Certification – UL Listed to UL 498 File E1706, CSA Certified to C22.2 No. 42 File 280C	Cable Inserts	Poly Phenylene Oxide
IP Suitability – IP20	Wire Clamps	Steel
	Body Holding Screws	Steel, Multiple Drive
Connector Bodies	Part	Connector
Typical Specification – Catalog No. HBL5969VY	Connector Body	15A
Manufacturer's Identification – Hubbell HBL5969VY	Housing	Nylon
Description – Straight Body Connector	Contact and Ground Springs	Brass
Type – 2 Pole, 3 Wire, Grounding	Line Terminal Screws	Steel-Copper, Multiple Drive
Rating – 15A, 125V	Ground Screw	Steel (Green), Multiple Drive
Verified to Fed. Spec. WC596	Cable Inserts	Poly Phenylene Oxide
Certification – UL Listed to UL 498 File E1706, CSA Certified to C22.2 No. 42 File 280C	Wire Clamps	Steel
IP Suitability – IP20	Body Holding Screws	Steel, Multiple Drive

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V or 250V as rated.
Current interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 and CSA (Brass, White, Green).
Terminal Accommodation	Copper conductors only. 2 Wire 15A Only #18-14 AWG, 2 Wire 20A & 3 Wire #18-12 AWG, Hospital Grade #16-12 AWG, I.D. Valise #18-16 AWG.
Product Identification	Molded Rating on Device Face.
Torque	12 in./lb. terminal screws, 7 in./lb. assembly screws.
Cord Diameter Range	2-Wire 15A Only .218–.385 in. (5.5–9.8), 2-Wire 20A & 3 Wire .220–.660 in. (5.6–16.8), Hospital Grade .300–.660 in. (7.6–16.8), I.D. Valise .230–.360 in. (5.8–9.1).
Environmental – Material	
Flammability	UL 94V-2.
Operating Temperature	Maximum continuous 75°C; minimum -40°C (w/o impact).
Standards	
NEMA® WD1	
NEMA® Configurations	
Listed to UL Standard UL498	
Certified to CSA Standard C22.2 No. 42	
Verified to Federal Spec WC596	

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# Straight Blade Devices

## Technical Information



### IEC 320 Devices

#### Specifications

##### Receptacle

Catalog Number	H320R
Description	IEC Configuration compatible straight blade panel mount receptacle.
Type	2 Pole + earth.
Rating	16A 250V AC for European service; 20A 250V AC for North American service.
Certification	UL Listed 20A 250V AC – File No. E2186; CSA Certified 20A 250V AC – File No. 17337.
Terminal Accommodation	North American – #16-12 AWG stranded or solid copper conductor only. International – 1.55mm <sup>2</sup> –2.5mm <sup>2</sup> .

##### Connector

Catalog Number	H320C
Description	IEC Detachable straight blade connector.
Type	2 Pole + earth.
Rating	16A 250V AC for European service; 20A 250V AC for North American service.
Configuration	IEC 60320-1 Style appliance coupler, C19.
Certification	UL Listed 20A 250V AC – File No. E1706; CSA Certified 20A 250V AC – File No. 17337; UL Classified to IEC 320, 16A 250V AC – File No. E111246;
Cord Accommodation	North American – 16/3SJ-12/3SJ (.325–.475 in. dia.); International – (HAR cord) 3x1.5mm <sup>2</sup> –3x2.5mm <sup>2</sup> (8mm–12mm dia.).
IP Suitability	IP20.

##### Plug

Catalog Number	H320P
Description	IEC Configuration compatible straight blade Valise® plug.
Type	2 Pole + earth.
Rating	16A 250V AC for European service; 20A 250V AC for North American service.
Certification	UL Listed 20A 250V AC – File No. E1706; CSA Certified 20A 250V AC – File No. 17337.
Cord Accommodation	North American – 16/3 SJ-12/3SJ (.325–.475 in. dia.); International – (HAR cord) 3x1.5mm <sup>2</sup> 3x2.5mm <sup>2</sup> (8–12mm dia.).
IP Suitability	IP20.

##### Inlet

Catalog Number	H320B and H320BL
Description	IEC Straight blade panel mount power inlet.
Type	2 Pole + earth.
Rating	16A 250V AC for European service; 20A 250V AC for North American service.
Configuration	IEC 60320-1 Style appliance coupler, C20.
Certification	UL Listed 20A 250V AC – File No. E1706; CSA Certified 20A 250V AC – File No. 17337; UL Classified to IEC 320, 16A 250V AC – File No. E111246; VDE Certified at 16A 250V AC – File No. 12469 1550 1002.
Terminal Accommodation	North American – #16-12 AWG stranded or solid copper conductor only. International – 1.5mm <sup>2</sup> –2.5mm <sup>2</sup> .



# Straight Blade Devices

## Technical Information

### Heavy Duty Insulgrip® Plugs and Receptacles



HBL9431C



HBL9430A

### Specifications

Plug	Part	Description
Typical Specification - Catalog No. HBL9431C	Plug	30A
Manufacturer's identification - Hubbell HBL9431C	Housing	Supertough Nylon
Description - Straight Body Plug	Blade Holder & Retainer	Reinforced Thermoplastic Polyester
Type - 3 Pole, 4 Wire, Grounding	Blades	Brass
Rating - 30A, 125/250V	Terminal Screws	3/8 in. Allen Head, Plated Steel
Certification - UL Listed File E1706, CSA Certified*	Box Terminals	Copper Alloy
IP Suitability - IP20	Cord Clamps	Reinforced Thermoplastic Polyester
	Mounting and Clamp Screws	Stainless Steel
	Cord Grip Range	.625–1.310 in. (15.9–33.3)
Receptacle	Part	Description
Typical Specification - Catalog No. HBL9430A	Receptacle	30A
Manufacturer's Identification - Hubbell HBL9430A	Housing Construction	Reinforced Thermoplastic Polyester
Description - Single Receptacle	Mounting Plate	.062 in. (1.5) Pre-Plated Steel
Type - 3 Pole, 4 Wire, Grounding	Contacts	Brass
Rating - 30A, 125/250V	Ground Shunt	Brass
Certification - UL Listed File E2186, CSA Certified	Terminal Screws	3/8 in. Allen Head, Plated Steel
	Box Terminals	Copper

### Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V or 250V as rated.
Current Interruption	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Mechanical	
Terminal Identification	Terminals identified in accordance with UL 498 (Brass, White, Green).
Terminal Accommodation	#12 AWG through #4 AWG copper wire only.
Production Identification	Ratings are a permanent part of the device.
Environmental	
Flammability	Receptacle: UL 94 VO. Plug: UL 94 HB (Housing), UL 94 VO (Blade Holder and Retainer).
Operating Temperature	Maximum continuous 60°C, minimum -40°C (w/o impact).

Note: \*Listed to UL Standard 498 (Attachment Plugs and Receptacles), Certified to CSA Standard 42M (General Use Receptacles, Attachments, Plugs and Singular Wiring Devices) where applicable.

# SECTION B

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### Twist-Lock® Devices



### 50A Twist-Lock® Devices



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# Twist-Lock® Devices

## Products at a Glance



### Insul-Lock™ Devices

- Meets NEC 520.68 requirements for extra-hard usage cords or cables
- Complies with existing industry conventions
- Simplifies installation for domestic OEM's
- Interchangeable with installed base
- Suitable for use in UL1640 applications



### Midget Twist-Lock® Devices

- Totally insulated body adds extra measure of safety
- Abuse resistant nylon housing
- Patented locking lugs interlock the two sections together providing a secure assembly
- Powerful, cord-gripping jaws designed to eliminate conductor slip and strain on terminals



### Insulgrip® Twist-Lock® Devices

- Tough ribbed nylon housing for secure gripping
- Insulated nylon construction to keep non-current carrying parts from becoming energized
- Self-threading screws specially designed for secure assembly
- Voltage color coding on receptacle face facilitates proper mating of devices



### Safety-Shroud® Twist-Lock® Devices

- Tough nylon shroud protect blades from damage
- Prevents exposure to potential arc
- Lockout/tagout hole allows compliance with OSHA regulation 29 CFR 1910.147
- Accepts conventional NEMA locking plugs



### Watertight Safety-Shroud® Devices

- Gland seal prevents water ingress at cord entrance
- Strong PBT body for heavy duty applications
- Closure cap creates environmental seal when device is not in use
- Visible color coded rating label on devices ensure proper mating



### 50 Amp Insulgrip® Devices

- Heavy-duty design built for heavy-duty applications
- Thermoplastic clamp provides a consistent, durable grip. Sealed cable entry keeps out moisture and dust
- Stainless steel shroud restricts mismatching with the wrong device
- Padlock capable shroud allows compliance to OSHA lockout/tagout regulation 29 CFR 1910.147



### Hubbellock® Devices

- Enhanced safety because access to live female contacts is restricted by the spring-loaded safety shutter
- Longer contact life is assured by supplementary springs. Other devices rely just on contacts themselves to provide proper contact pressure
- Insulated non-metallic housing enhances safety and abuse resistance

# Twist-Lock® Devices

## Features and Benefits

### Insul-Lock™ Connectors and Panel Mount Devices

Miniature 25 Amp Power Connections for Entertainment and Lighting Applications.

Ideal for use with LED lighting and other applications including multiple screen video walls. The rear of the connector is black to blend in when used in visible areas.

Available in both inline and panel mount styles, Hubbell's Insul-Lock™ Connectors have a quick release, vibration resistant latch. Hubbell's connections intermate with other similar brands.

- Meets NEC 520.68 requirements for extra-hard usage cords or cables
- Complies with existing industry conventions
- Simplifies installation for domestic OEM's
- Interchangeable with installed base
- Suitable for use in UL1640 applications



#### Housing Design

- Impact-resistant thermoplastic construction
- Industry standard mating
- Color coded blue for power in and gray for power out



#### Connector Housing

- Insulgrip style body design for a secure grip



#### Connector Body

- Connectors accept up to #12/3 AWG SO cable
- Multiple strain relief collets to accommodate cable range



#### Locking Latch

- Quick release locking latch to ensure positive connection



#### Contacts

- Panel mount devices accept commonly available .25" spade style connectors



#### Panel Mount

- Divided panel mounts available for use with non-insulated terminations

# Twist-Lock® Devices

## Insul-Lock™ Connectors and Panel Mount Devices



### Inline Connectors

Description	Style	Color	Catalog Number
25 Amp	Power In	Blue	<b>HBLCPIBL</b>
25 Amp	Power Out	Gray	<b>HBLCPOGY</b>



### Panel Mounts

Description	Style	Color	Catalog Number
25 Amp	Power In	Blue	<b>HBLPMIBL</b>
25 Amp	Power In, Divided	Blue	<b>HBLPMIDBL</b>
25 Amp	Power Out	Gray	<b>HBLPMOgy</b>
25 Amp	Power Out, Divided	Gray	<b>HBLPMODGY</b>

### Accessories

Description	Catalog Number
Panel Mount Retainer Plate	<b>HBLPMRP</b>
Panel Mount M3x.5 Screw, 8mm Long	<b>HBLPMSC</b>

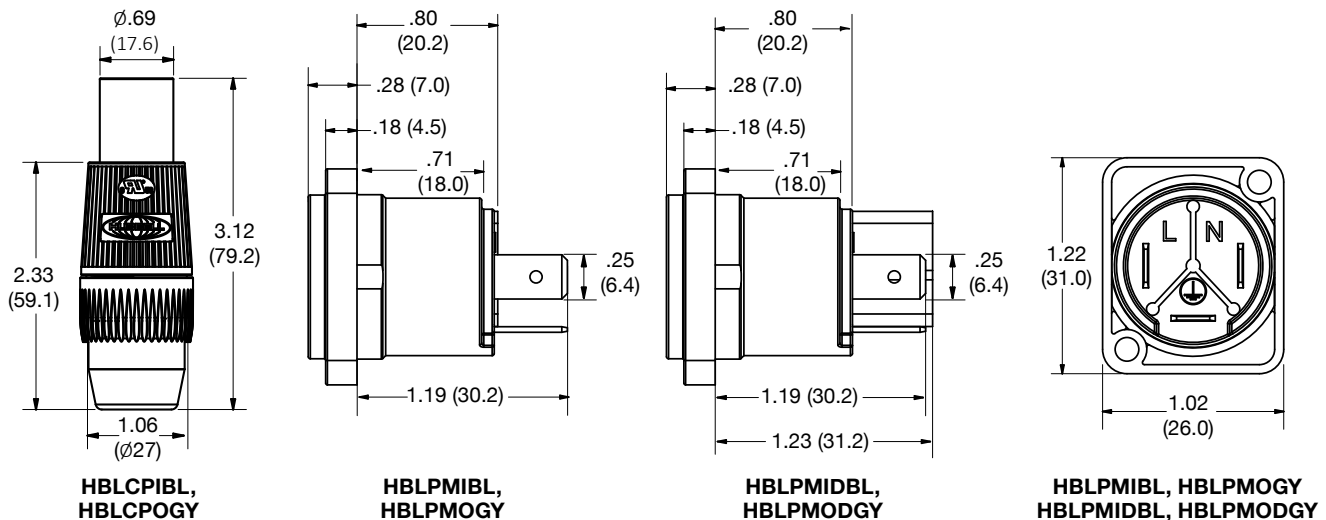
### Certifications

UL Recognized component for USA and Canada.



Note: Not for make or break under load.

### Dimensions





# Twist-Lock® Devices

## Features and Benefits

### Midget 15 Amp Plugs and Connector Bodies

Hubbell's Valise® insulation displacement terminal for Midget Twist-Lock® Plugs and Connector Bodies are the right choice for economy, wiring speed and long life.

- Totally insulated body adds extra measure of safety
- Nylon webs join two sections together which makes assembly of the device quick and easy
- Patented locking lugs interlock the two sections together when the device is assembled providing a secure assembly
- Powerful, cord-gripping jaws designed to eliminate conductor slip and strain on terminals
- "TURN & PULL" marking is highly visible, reducing possible damage to equipment by attempting disconnection prior to unlocking



HBL7594V



HBL7593V



#### Housing Design

- Totally insulated body adds extra measure of safety
- Abuse resistant nylon housing



#### Contacts

- The insulation displacement terminal reduces the time required for wire preparation and provides uniformity in the quality of termination
- Powerful, cord-gripping jaws designed to eliminate conductor slip and strain on terminals



#### One-Piece Design

- Nylon webs join two sections together which makes assembly of the device quick and easy
- Patented locking lugs interlock the two sections together when the device is assembled providing a secure assembly, even in the most abusive environments



#### Assembly

- Assembly screws have multiple drive heads for screwdriver versatility. Only two assembly screws are needed to close this device, make the wire terminations and retain the cord



#### Identification

- I.D. marking surface provides quick, sure circuit identification



#### Markings

- "TURN & PULL" marking is highly visible, reducing possible damage to equipment by attempting disconnection prior to unlocking

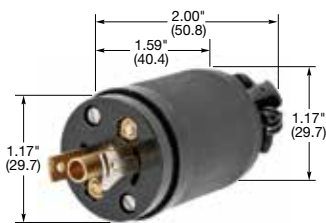
## Midget Plugs and Flanged Inlets



**HBL7465V**



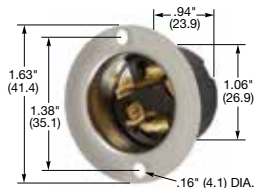
**HBL7594V**



**HBL7594**



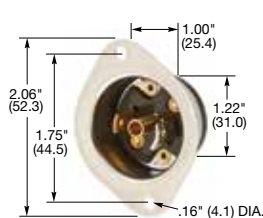
**HBL7570**



**HBL7466, HBL7467**



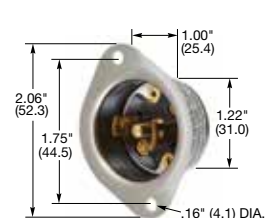
**HBL7595N**



**HBL7595**

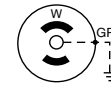


**HBL7486N**



**HBL7486**

**IP20**  
SUITABILITY



**15A 125V NEMA ML-1P**    **15A 125V NEMA ML-2P**    **15A 125/250V AC NEMA ML-3P**

### Plugs

Description	Cord Dia.	Catalog Number		
Valise® plug, black nylon.	.220"-.385" (5.6-9.8)	<b>HBL7465V*</b>	-	-
Valise® plug, black nylon, insulation displacement terminals.	.300"-.430" (7.6-10.9)	-	<b>HBL7594V</b>	-
Black nylon cover, phenolic body, multiple drive screw terminals.	.281"-.421" (7.1-10.7)	-	<b>HBL7594</b>	-
Angle plug, black nylon cover, phenolic body, multiple drive screw terminals.	.335"-.421" (8.5-10.7)	-	<b>HBL7570</b>	-
Valise® plug, black nylon, with insulation displacement terminals, multiple drive screws.	.300"-.430" (7.6-10.9)	-	-	<b>HBL7485V*</b>
Black nylon body, phenolic base, multiple drive screw terminals, cord grip.	.281"-.421" (7.1-10.7)	-	-	<b>HBL7485*</b>
Same as above, except angle cord grip.	.335"-.421" (8.5-10.7)	-	-	<b>HBL7432*</b>

### Flanged Inlets

Description	Catalog Number		
Stainless steel flange, polarized, exposed terminals.	<b>HBL7467*</b>	-	-
Stainless steel flange, not polarized, exposed terminals.	<b>HBL7466*</b>	-	-
Exposed terminals, black nylon flange.	-	<b>HBL7595N</b>	-
Exposed terminals, stainless steel flange.	-	<b>HBL7595</b>	-
Covered terminals, stainless steel flange, accepts cord .500" (12.7) dia.	-	<b>HBL7551</b>	-
Exposed terminals, black nylon flange.	-	-	<b>HBL7486N*</b>
Exposed terminals, stainless steel flange.	-	-	<b>HBL7486*</b>

Note: See page B-8 for accessories.

\*UL Listed only.

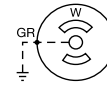
Male ML-2P devices have hollow center ground sleeves.

Male ML-3P devices have solid center neutral pins.

Dimensions in Inches (mm)

## Midget Connector Bodies and Flanged Receptacles

**IP20**  
SUITABILITY



### Connector Bodies

Description	Cord Dia.	Catalog Number		
		15A 125V NEMA ML-1R	15A 125V NEMA ML-2R	15A 125/250V AC NEMA ML-3R
Valise® connector body, black nylon, polarized.	.220"-.385" (5.6-9.8)	<b>HBL7464V*</b>	-	-
Valise® connector body, black nylon, insulation displacement terminals.	.300"-.430" (7.6-10.9)	-	<b>HBL7593V</b>	-
Black nylon cover, phenolic body, screw terminals.	.281"-.421" (7.1-10.7)	-	<b>HBL7593</b>	-
Angle connector body, black nylon cover, phenolic body, screw terminals.	.335"-.421" (8.5-10.7)	-	<b>HBL7571</b>	-
Valise® type, black nylon, with insulation displacement terminals, multiple drive screws.	.300"-.430" (7.6-10.9)	-	-	<b>HBL7484V*</b>
Black nylon body, phenolic base, multiple drive screws, cord grip.	.281"-.421" (7.1-10.7)	-	-	<b>HBL7484*</b>
Same as above, except for angle cord grip.	.335"-.421" (8.5-10.7)	-	-	<b>HBL7433*</b>



### Flanged Receptacles

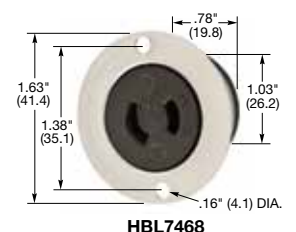
Description	Catalog Number
Stainless steel flange, exposed terminals.	<b>HBL7468*</b>
Exposed terminals, black nylon flange.	- <b>HBL7596N</b> -
Exposed terminals, stainless steel flange.	- <b>HBL7596</b> -
Covered terminals, stainless steel flange, accepts cord .500" (12.7) in dia.	- <b>HBL7598</b> -
Exposed terminals, black nylon flange.	- <b>HBL7487N*</b> -
Exposed terminals, stainless steel flange.	- <b>HBL7487*</b> -
Covered terminals, stainless steel flange, accepts cord .500" (12.7) in diameter.	- <b>HBL7489*</b> -

Note: See page B-8 for accessories.

\*UL Listed only.

Female ML-2R devices have solid center ground pins.

Female ML-3R devices have hollow center neutral sleeves.



Dimensions in Inches (mm)

## Midget Accessories



**HBL7490V**



**HBL7459V**



**HBL4890**



**HBL7495V**



**HBL7440V**



**HBL4889**

### Weatherproof Accessories for ML-1

Description	Catalog Number
Seal-tite® cover, black elastomer, for use with a HBL7465V plug when used with a HBL7464V connector body or a HBL7464V connector when used with a flanged inlet.	<b>HBL7490V*</b>
Seal-tite® cover, black elastomer, for use with a HBL7464V connector body and combination of HBL7465V plug and HBL7490V cover.	<b>HBL7459V*</b>
Closure cover for use with HBL7466 or HBL7467. Bead chain is nickel-plated.	<b>HBL4890</b>

### Weatherproof Accessories for ML-2

Description	Catalog Number
Seal-Tite® cover, black elastomer, for use with a HBL7594V plug when used with a HBL7593V connector body or a HBL7593V connector body when used with a flanged inlet.	<b>HBL7495V*</b>
Seal-Tite® cover, black elastomer, for use with a HBL7593V connector body and a combination of HBL7594V plug and HBL7495V cover.	<b>HBL7440V*</b>
Closure cover for use with HBL7595 or HBL7595N.	<b>HBL4889</b>

### Weatherproof Accessories for ML-3

Description	Catalog Number
Seal-Tite® cover, black elastomer, for use with a HBL7485V or HBL7485 plug when used with a HBL7484V or HBL7484 connector body when used with a flanged inlet.	<b>HBL7495V*</b>
Seal-Tite® cover, black elastomer, for use with a HBL7484V or HBL7484 connector body and a combination of HBL7485V or HBL7485 plug and HBL7495V cover.	<b>HBL7440V*</b>
Closure cover for use with HBL7486 or HBL7486N.	<b>HBL4889</b>

*Note: \*IP55 suitability when installed and used properly with plug and connector body combinations.*

Dimensions in Inches (mm)

# Twist-Lock® Devices

## Features and Benefits

### Insulgrip® 15 Amp Plugs and Connector Bodies

Insulgrip products are synonymous with Hubbell's ongoing commitment to discovering ways to make products safer and last longer.

By encasing wiring devices in tough nylon housings, Insulgrip devices ensure high impact, heat, and chemical resistance while insulating current-carrying components from the user for maximum safety.

- The Insulgrip's cord gripping design clamps conductors, not just the cable jacket, making it the industry's most powerful cord grip with superior strain relief
- Each Insulgrip device is manufactured with roomy, separate wiring chambers to insulate conductors and an individually molded face to keep out dust and debris that can cause contamination over time



HBL4720C

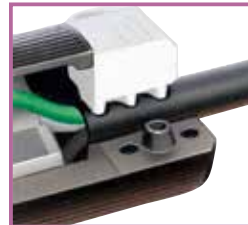


HBL4729C



#### Housing Design

- Ribbed nylon housing provides a secure grip that's impact and chemical resistant
- Beveled housing prevents snagging when dragged across uneven surfaces
- Individually molded face for each blade configuration keeps debris out of plug interior



#### Internal Design

- Powerful cord grips clamp on individual conductors and outer cord jacket to prevent strain on terminations
- Individual wiring terminals are completely enclosed in their own separate chambers



#### Cord Range

- Integral VARI-SIZE® insert adjusts to a wide range of cord sizes: .230"-.720" (5.8-18.3)
- VARI-SIZE® pointer set to "smaller than gauge" position. Cord diameter range is .230"-.360" (5.8-9.0). Accepts slotted and Phillips head drivers



#### Assembly

- "Multiple drive" screw heads provide screwdriver versatility. Pocketed recess for cord grip screws deters slippage of the screwdriver



#### Identification

- Catalog number is visible on the device while in use for easy identification



#### Visual Verification

- Transparent angled wiring entrance holes guide conductor insertion and allow for quick visual verification of terminations



# Twist-Lock® Devices

## Features and Benefits

### 15 Amp Duplex Twist-Lock® Receptacles

Hubbell Wiring Device-Kellems line of duplex Twist-Lock® receptacles are designed to deliver premium service and longer life. This rugged product design establishes a new standard for 15 amp locking receptacles. A reinforced thermoplastic top and base encapsulates the brass alloy contacts that are locked together for unequalled assembly strength. Wiring and installation is simplified with back and side wire terminations, integral wire restraints, and combination head screws. The integral split circuit capability offers flexibility. Available in 2 pole, 3 wire configurations including isolated ground and corrosion resistant versions.

- Superior spring characteristics for increased contact force, secure connections and longer life
- High-conductivity, corrosion resistant material for reliable, low resistance to fault currents
- Easy and reliable installation for stranded and solid wire
- Features split circuit capability in the field
- The assembly locks together to make the most abuse resistant receptacle ever



HBL4700



#### Housing Design

- Reinforced thermoplastic construction
- High impact and heat resistance provides maximum safety and longer life



#### Terminals

- Single point break-off tabs
- High performance internal wiring clamps and open terminal design provide for the use of forked terminals



#### One-Piece Design

- Mounting strap tabs lock the body and base together
- Brass mounting strap with stainless steel grounding clip



#### Contacts

- Single piece, all brass contacts
- All terminals are back and side wired including the ground



#### Identification

- I.D. marking surface provides quick, sure circuit identification



#### Center Rivet

- Square head, 10-thread bronze center rivet won't rotate, reduces stripping and resists corrosion

**15 Amp, 125 Volts  
2 Pole, 2 Wire, Non-Grounding**

**IP20**  
SUITABILITY

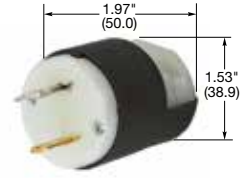


**15A 125V  
NEMA L1-15P  
0.5 HP**

## Plugs

Description	Cord Dia.	Catalog Number
Black and white nylon, polarized. Multiple drive screws.	.230"-.720" (5.8-18.3)	<b>HBL7545C</b>

Note: See page B-51 for accessories.



**HBL7545C**

## Flanged Inlets

Description	Catalog Number
Nylon casing, polarized, backwired, Multiple drive screws.	<b>HBL7524C</b>

Note: See page B-50 for accessories.

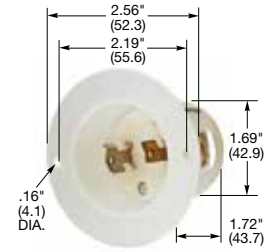


**15A 125V  
NEMA L1-15R  
0.5 HP**

## Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon. Multiple drive screws.	.230"-.720" (5.8-18.3)	<b>HBL7506C</b>

Note: See page B-51 for accessories.



**HBL7524C**

## Receptacles

Description	Catalog Number
Duplex, flush, black phenolic.	<b>HBL7540</b>
Single, flush, black phenolic.	<b>HBL7535</b>
Single, panel mount, 1 <sup>5</sup> / <sub>16</sub> " (49.2) centers, black phenolic.	<b>HBL7498</b>

Note: See pages B-50 and B-51 for accessories.

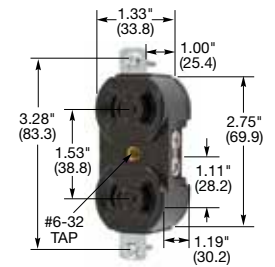


**HBL7506C**

## Flanged Receptacles

Description	Catalog Number
Insulgrip nylon casing, backwired. Multiple drive screws.	<b>HBL7526C</b>
Metal flange, stainless steel casing, black phenolic, exposed terminals.	<b>HBL7526</b>

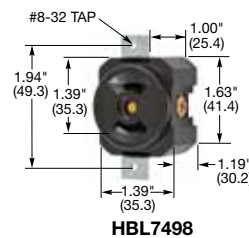
Note: See pages B-50 and B-51 for accessories.  
Only receptacles and plugs are HP rated.  
HP ratings are AC only.



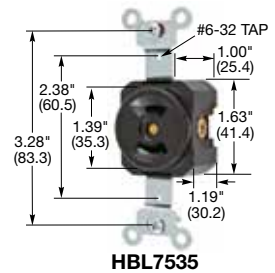
**HBL7540**



**HBL7526C**



**HBL7498**



**HBL7535**

Dimensions in Inches (mm)

**15 Amp, 125, 250 Volts and 277 Volts AC  
2 Pole, 3 Wire, Grounding**

**IP20**  
SUITABILITY



<b>15A 125V NEMA L5-15P 0.5 HP</b>	<b>15A 250V NEMA L6-15P 1.5 HP</b>	<b>15A 277V AC NEMA L7-15P 2 HP</b>
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## Plugs

Description	Cord Dia.	Catalog Number		
Insulgrip plug, black and white nylon. Multiple drive screws. Fed Spec WC596	.230"-.720" (5.8-18.3)	<b>HBL4720C</b>	<b>HBL4570C</b>	<b>HBL4770C</b>
All black nylon.	.230"-.720" (5.8-18.3)	<b>HBL4720CBK</b>	-	-
Insulgrip angle plug, 8 position angle, black and white nylon. Multiple drive screws.	.325"-.655" (8.3-16.6)	<b>HBL4720CA</b>	<b>HBL4570CA</b>	<b>HBL4770CA</b>
Insulgrip plug, corrosion resistant, yellow and white nylon. Multiple drive screws. Fed Spec WC596	.230"-.720" (5.8-18.3)	<b>HBL47CM20C</b>	<b>HBL45CM70C</b>	<b>HBL47CM70C</b>
Elastogrip® plug, yellow elastomer, dust tight.	300"-.655" (7.6-16.6)	<b>HBL2447</b>	-	-
Elastogrip plug, yellow elastomer, water/dust tight.	300"-.655" (7.6-16.6)	<b>HBL24W47</b>	-	-
Valise® plug, yellow nylon.	.220"-.660" (5.6-16.8)	<b>HBL4723VY</b>	<b>HBL4573VY</b>	<b>HBL4773VY</b>
Valise® plug, black nylon.	.220"-.660" (5.6-16.8)	<b>HBL4723VBK</b>	<b>HBL4573VBK</b>	<b>HBL4773VBK</b>

Note: See page B-51 for accessories.

## Flanged Inlets

Description	Catalog Number		
Insulgrip flanged inlet, nylon casing, back wired.	<b>HBL4716C</b>	<b>HBL4586C</b>	<b>HBL4786C</b>
Stainless steel casing, brown phenolic.	<b>HBL4716*</b>	<b>HBL4586*</b>	<b>HBL4786*</b>
Corrosion resistant, stainless steel casing, yellow melamine.	<b>HBL47CM16*</b>	-	-

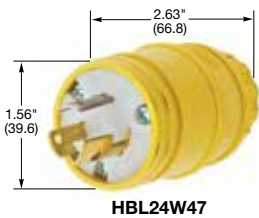
Note: See page B-50 for accessories.

HP ratings are AC only.

Only plugs are HP rated.

See page B-69 for technical information on Insulgrip devices.

\*These flanged inlets will not accept Valise® connector bodies.



Dimensions in Inches (mm)

## 15 Amp, 125, 250 Volts and 277 Volts AC 2 Pole, 3 Wire, Grounding

**IP20**  
SUITABILITY



15A 125V NEMA L5-15R 0.5 HP	15A 250V NEMA L6-15R 1.5 HP	15A 277V AC NEMA L7-15R 2 HP
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### Connector Bodies

Description	Cord Dia.	Catalog Number		
Insulgrip connector body, black and white nylon. Multiple drive screws.	.230"-.720" (5.8-18.3)	<b>HBL4729C</b>	<b>HBL4579C</b>	<b>HBL4779C</b>
All black nylon.	.230"-.720" (5.8-18.3)	<b>HBL4729CBK</b>	-	-
Insulgrip connector body, 8 position angle, black and white nylon. Multiple drive screws.	.325"-.655" (8.3-16.6)	<b>HBL4729CA</b>	-	-
Insulgrip connector body, corrosion resistant, yellow and white nylon. Multiple drive screws.	.230"-.720" (5.8-18.3)	<b>HBL47CM29C</b>	<b>HBL45CM79C</b>	<b>HBL47CM79C</b>
Elastogrip connector body, yellow elastomer, dust tight.	.300"-.655" (7.6-16.6)	<b>HBL2547</b>	-	-
Elastogrip® connector body, yellow elastomer, water/dust tight.	.300"-.655" (7.6-16.6)	<b>HBL25W47**</b>	-	-
Valise® connector body, yellow nylon.	.220"-.660" (5.6-16.8)	<b>HBL4729VY</b>	<b>HBL4579VY</b>	<b>HBL4779VY</b>
Valise® connector body, black nylon.	.220"-.660" (5.6-16.8)	<b>HBL4729VBK</b>	<b>HBL4579VBK</b>	<b>HBL4779VBK</b>

Note: See page B-49 for accessories.

### Receptacles

Description	Catalog Number		
Duplex, flush, brown RTP face, back and side wired.	<b>HBL4700*</b>	<b>HBL4550*</b>	<b>HBL4750*</b>
Duplex, flush, ivory RTP face, back and side wired.	<b>HBL4700I*</b>	-	-
Duplex, ring terminal connection.	<b>HBL4700RT*</b>	<b>HBL4550RT*</b>	-
Duplex, isolated ground, flush, orange RTP face, back and side wired.	<b>IG4700A*</b>	<b>IG4550A*</b>	-
Duplex, corrosion resistant, yellow RTP face, back and side wired.	<b>HBL47CM00*</b>	-	-
Single, flush, black nylon face, back and side wired.	<b>HBL4710</b>	<b>HBL4560</b>	<b>HBL4760</b>
Same as HBL4760 without mounting screws, ears. Terminal screws backed out, back and side wired.	-	-	<b>HBL4760C</b>
Single, ring terminal connection.	<b>HBL4710RT</b>	<b>HBL4560RT</b>	-
Single, isolated ground, flush, orange nylon face, back and side wired.	<b>IG4710</b>	<b>IG4560</b>	-
Single, black nylon face mounted on a 4" (101.6) round box cover, back and side wired.	<b>HBL4711</b>	-	<b>HBL4761</b>
Single, panel mount, black nylon face, side wired only, 1.75" or 1.937" (44.5 or 49.2) mounting centers.	<b>HBL4713</b>	<b>HBL4563</b>	<b>HBL4763</b>

Note: See pages B-50 and B-51 for accessories.

### Flanged Receptacles

Description	Catalog Number		
Insulgrip flanged receptacle, nylon casing, back wired.	<b>HBL4715C</b>	<b>HBL4585C</b>	<b>HBL4785C</b>
Stainless steel casing, brown phenolic.	<b>HBL4715</b>	<b>HBL4585</b>	<b>HBL4785</b>
Corrosion resistant, stainless steel casing, yellow melamine.	<b>HBL47CM15</b>	-	-

Note: See pages B-50 and B-51 for accessories.

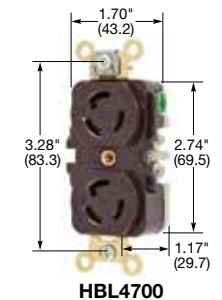
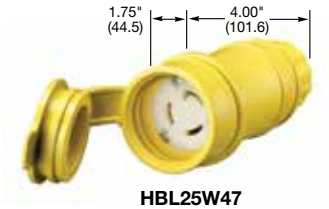
HP ratings are AC only.

RTP is an abbreviation for reinforced thermoplastic polyester.

See section M for additional information on isolated ground devices.

\*Supplied with break-off tabs for split circuit wiring.

\*\*Watertight connector body IP55 suitability when closure plug is inserted or when installed and used properly with watertight plug.



Dimensions in Inches (mm)

# Twist-Lock® Devices

## Features and Benefits

### Insulgrip® 20 and 30 Amp Plugs and Connector Bodies

Our 20 and 30 amp Insulgrip® plugs and connectors maintain Hubbell's classic integrity, solid construction and safety features that make these devices the "industry standard".

Insulgrip's cord gripping design clamps the conductors, not just the cable jacket, making it the industry's most powerful cord grip. The restyled cord grips provide a clean, one-piece look and makes it stronger.

Insulgrip's design guards against contamination. The nylon body and housing of the plugs and connectors are resistant to industrial chemicals, solvents and hydrocarbons. The face of each plug is molded specific to the blade configuration, eliminating holes that attract debris. And finally, our dust shield provides additional protection from contamination.

Additional features that make Insulgrip the industry standard are our improved contacts that provide better terminations, an exclusive double rivet design for the female contacts and an easy to read identification system.

The Hubbell Twist-Lock® line of plugs and connectors remain the broadest in the industry. Hubbell has you covered – proven performance, innovation and selection.



HBL2311



HBL2313



#### Housing Design

- Tough ribbed nylon housing for secure gripping
- Insulated nylon construction to keep non-current carrying parts from becoming energized



#### Internal Design

- Integral dust shield protects wiring chamber from dust or contaminants. Single-piece shield/housing eliminates need for separate step at installation
- Wiring chambers separate and positively insulate conductors and promote easy inspection



#### Cord Range

- Two-part cord grip tightens with two screws for maximum retention force
- Broad gripping area to accommodate wide range of cable diameters



#### Assembly

- Self-threading screws specially designed for secure assembly



#### Identification

- Product identification is visible while device is in use. Markings include catalog number and ratings printed in the IEC color scheme on the current-carrying portion of the device



#### Contacts

- Improved terminations include #10 multiple drive screws and thicker .080" clamping nuts
- Funneled holes to permit "straight-in" conductor insertion
- Contoured binding plates ensures strong wire retention



# Twist-Lock® Devices

## Features and Benefits

### Insulgrip® Standard Locking Receptacles

Twist-Lock® receptacles combine functional design features, unparalleled quality to deliver pace-setting performance.

The high-impact nylon face of each Hubbell Twist-Lock receptacle has a colored ring. Keyed to an internationally recognized color coding scheme, this ring enables mating devices to be matched quickly. It's just one more example of user-oriented thinking at Hubbell.

The terminals in each Hubbell Twist-Lock receptacle are mechanically and electrically the finest available. These terminals incorporate unique design features to contain and hold conductors, including an external back wiring "wraparound" clamp, a wire restraint recess and more.

The materials used in every receptacle are of the highest quality. The all brass mounting system provides a safer, lower resistance ground path than those made of steel. The thick wall base is constructed of an engineered thermoplastic to offer the benefits of a thermoset, yet with much greater impact resistance.

Hubbell Twist-Lock Receptacles: Voltage color coding on the outside. Proven designs and quality materials on the inside. Any way you look at them, they are the standard of the industry.



HBL2310



#### Housing Design

- High-impact, abuse-resistant nylon face
- Glass-Reinforced thermoplastic polyester base (RTP) has the desirable characteristics of a thermoset material, including heat, flame resistance and dimensional stability. The impact resistance it provides, however, is much greater than that of a thermoset



#### Wiring Design

- Wire restraint recess for both back and side wiring, greatly reduces the possibility of loosening the terminal connection



#### Mounting Strap

- All-brass mounting and grounding system provides a lower resistance ground path and greater resistance to corrosion than steel mounting systems



#### Terminals

- #10 brass terminal screw provides greater strength and resistance to corrosion and stripping
- Anti-rotational clamp has a stop to limit the amount of cocking when only one side is used. Accommodates both back and side wiring



#### Identification

- Face color coding by voltage facilitates locating and mating of proper devices
- Boss diameter is 1.562" on 20 and 30A devices for simplifying installation and accessory selection



#### Contacts

- One-piece contact with long spring arm (low stress) and oxide cutting nibs: prevents stress and overheating associated with riveted contact and short spring arms

# Twist-Lock® Devices

## Features and Benefits

### Watertight Safety-Shroud® Twist-Lock® System

- Virtually eliminates bent and broken plug blades, leading to longer equipment life
- Extends life of mating receptacles by eliminating damage caused by insertion of bent blades
- Extra protection for personnel by significantly reducing chance of inadvertent contact with blades when connecting or disconnecting energized receptacles and connector bodies
- Reduces exposure to arcing when connecting or disconnecting plugs under load
- Compliance with California Code of Regulations, Title 8, Article 51, subsection 2510.7(b), which requires shrouding for devices exceeding 300 volts
- Lockout/tagout hole allows compliance with OSHA regulation 29 CFR 1910.147

Note: Works with Mechanical Interlocks, see page B-41 for additional information.



HBL2731SW



HBL2733SW



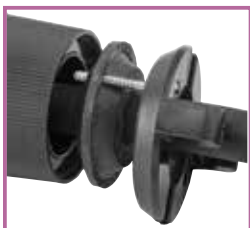
#### Housing Design

- One-piece, engineered thermoplastic housing is impact-resistant for heavy-duty industrial environments
- Blades are recessed for protection against bending and breaking
- Closure cap is included for environmental seal when device is not in use



#### Assembly

- Cord grip screw recess minimizes screwdriver slippage
- All screws are #10 multiple drive head



#### Cord Range

- Assorted TPE seal glands can accommodate a wide range of cord sizes from #16-3 Type SJ to #8-5 Type S, SO
- Sealing gland and thermoplastic guard assure sealing when fully connected



#### Panel or Box Mount Receptacles and Inlets

- High impact, thermoplastic housing for heavy-duty industrial environments
- Mounting screw recesses minimize screwdriver slippage
- Accepts all mating NEMA locking plugs and most connector bodies, allowing interchangeability with existing devices



#### Identification

- Catalog number and color-coded voltage rating are easily visible even when in use
- Alignment arrows and lock and unlock symbols provide a visual indication that devices are properly connected



#### Spring-Loaded Cover

- One-step, push-to-close, spring-loaded cover with latch allows for fast opening and closing of lift cover
- Result: environmental sealing is assured

# Twist-Lock® Devices

## Features and Benefits

### Safety-Shroud® Twist-Lock® System

- Mates with most NEMA locking connector bodies
- Virtually eliminates bent and broken plug blades
- Provides protection for personnel by reducing chance of inadvertent contact with blades when connecting or disconnecting energized devices
- Reduces exposure to arcing when connecting or disconnecting under load
- Extends life of mating receptacles by eliminating damage caused by insertion of bent blades
- Complies with California Code of Regulation, which requires shrouding for devices exceeding 300 volts
- Lockout/tagout hole allows compliance to OSHA regulation 29 CFR 1910.147
- Allows engagement with Mechanical Interlock Enclosure which virtually prevents make and break under load



Note: All screws are #10 multiple drive head.



#### Housing Design

- Impact resistant shroud made of engineered thermoplastic protects blades against bending or breaking



#### Housing Design

- Engineered thermoplastic housing is impact and corrosion resistant, making it suitable for heavy-duty industrial environments
- Accepts conventional NEMA locking plugs



#### Safety

- External keying on plug devices allows quick mating of devices
- Lockout/tagout hole allows compliance with OSHA regulation 29 CFR 1910.147



#### Safety-Shroud® Twist-Lock® Receptacles

- The Safety-Shroud Twist-Lock single gang receptacles were designed to mount in virtually all standard and FS/FD type boxes, allowing easy conversion of existing NEMA locking receptacles to Safety-Shroud Twist-Lock receptacles



#### Identification

- Catalog number and color-coded voltage rating are visible even when in use
- Alignment arrows with lock and unlock symbols provide a visual indication that devices are properly connected



#### Boxes Available

- The semi-flush receptacles install in (RACO type 242/255) boxes, with 1/2 raised 2-gang device mount covers (RACO type 778/841) and a 2-gang FD type box. Standard 4" and 4 1/16" square boxes 2 1/8" deep

# Twist-Lock® Devices



## Compatibility and Environmental Protection Chart

### Twist-Lock® Receptacles



### Twist-Lock® Connector Bodies



### Twist-Lock® Plugs

 Watertight Safety-Shroud	YES Type 4X, Type 12	YES Type 4X, Type 12K	YES Type 1	NO	NO	YES Type 4X, Type 12	YES Type 1
 Safety-Shroud	YES Type 1	YES Type 1	YES Type 1	NO	NO	YES Type 1	YES Type 1
 Insulgrip	YES Type 1	NO	YES Type 1	YES Type 3R	YES Type 1	YES Type 1	YES Type 1

### Twist-Lock® Inlets

 NEMA	NA	NA	NA	NA	NA	NO	YES Type 1
 Watertight Safety-Shroud	NA	NA	NA	NA	NA	YES Type 4X, Type 12	YES Type 1

- Type 1** Indoor
- Type 3R** Raintight
- Type 4X** Hose-directed water and corrosion resistant
- Type 12** Dust tight, drip-proof without knockouts
- Type 12K** Dust tight, drip-proof with knockouts
- YES** Interchangeable
- NO** Does not interchange
- NA** Not Applicable

Note: See Technical section for full description of enclosure types.

**20 Amp, 250 Volts**  
**2 Pole, 2 Wire, Non-Grounding**

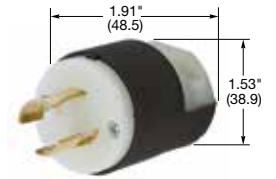


20A 250V  
 NEMA L2-20P  
 2 HP

## Plugs

Description	Cord Dia.	Catalog Number
Black and white nylon, polarized. Multiple drive screws.	.220"-.720" (5.6-18.3)	<b>HBL7102C</b>

Note: See page B-51 for accessories.

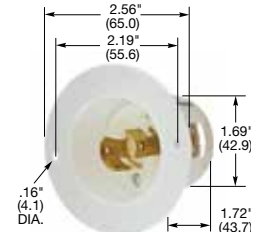


**HBL7102C**

## Flanged Inlets

Description	Catalog Number
Nylon casing, back wired, polarized. Multiple drive screws.	<b>HBL8815C</b>

Note: See page B-50 for accessories.



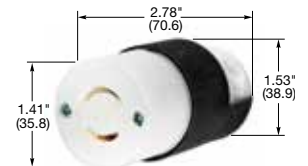
**HBL8815C**

## Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon. Multiple drive screws.	.220"-.720" (5.6-18.3)	<b>HBL7101C</b>

Note: See page B-51 for accessories.

20A 250V  
 NEMA L2-20R  
 2 HP

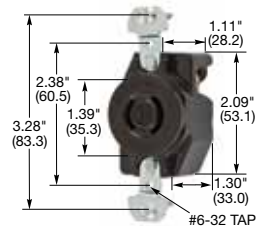


**HBL7101C**

## Receptacles

Description	Catalog Number
Single, black phenolic.	<b>HBL7210B</b>
Single, mounted on 4" (101.6) round box cover, black phenolic.	<b>HBL7217B</b>

Note: See pages B-50 and B-51 for accessories.



**HBL7210B**

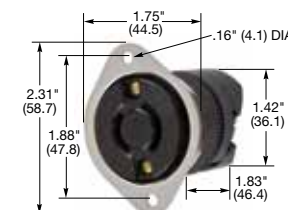
## Flanged Receptacles

Description	Catalog Number
Insulgrip nylon casing, back wired. Multiple drive screws.	<b>HBL8809C</b>
Metal flange, stainless steel casing, black phenolic, exposed terminals.	<b>HBL3226</b>

Note: See pages B-50 and B-51 for accessories.  
 Only receptacles and plugs are HP rated.  
 HP ratings are AC only.



**HBL8809C**

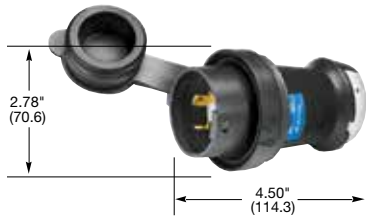


**HBL3226**

Dimensions in Inches (mm)



**20 Amp, 125, 250 Volts and 277 Volts AC  
2 Pole, 3 Wire, Grounding**



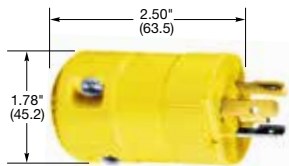
**HBL2321SW**



**HBL2321S**



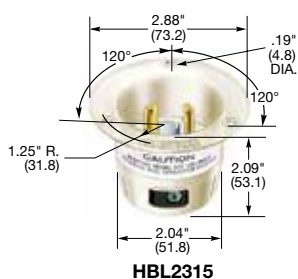
**HBL2311**



**HBL2311VY**



**HBL2325SW**



**HBL2315**

Dimensions in Inches (mm)

## Plugs

### Watertight Safety-Shroud®

Description	Cord Dia.	Catalog Number	IP66 SUITABILITY	UL Type 4x, 12
Black Valox® housing, white Valox® clamps.	.360"-.930" (9-24)	<b>HBL2311SW</b>	<b>HBL2321SW</b>	<b>HBL2331SW</b>

### Safety-Shroud®

Description	Cord Dia.	Catalog Number	IP20 SUITABILITY
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.360"-.930" (9-24)	<b>HBL2311S</b>	<b>HBL2321S</b> <b>HBL2331S</b>

### Insulgrip®

Description	Cord Dia.	Catalog Number	IP20 SUITABILITY
Black and white nylon.	.360"-.930" (9-24)	<b>HBL2311</b>	<b>HBL2321</b> <b>HBL2331</b>
Corrosion resistant, yellow nylon.	.360"-.930" (9-24)	<b>HBL23CM11</b>	<b>HBL23CM21</b> -
All black nylon.	.360"-.930" (9-24)	<b>HBL2311BK</b>	<b>HBL2321BK</b> -
Cord clamps with removable inserts. All black nylon.	.360"-.930" (9-24)	<b>HBL2311EBK</b>	<b>HBL2321EBK</b> -

Note: See page B-52 for accessories.

### Valise®

Description	Cord Dia.	Catalog Number	IP20 SUITABILITY	UL	CSA
Yellow nylon.	.325"-.720" (8.26-18.3)	<b>HBL2311VY</b>	<b>HBL2321VY</b>	<b>HBL2331VY</b>	
Corrosion resistant, yellow nylon.	.325"-.720" (8.26-18.3)	<b>HBL23CM11V</b>	-	-	
Black nylon.	.325"-.720" (8.26-18.3)	<b>HBL2311VBK</b>	<b>HBL2321VBK</b>	<b>HBL2331VBK</b>	

Note: See page B-53 for accessories.

## Flanged Inlets

### Watertight Safety-Shroud®

Description	Catalog Number	IP66 SUITABILITY	UL Type 4x, 12
Gray Valox® housing and flange.	<b>HBL2315SW</b>	<b>HBL2325SW</b>	<b>HBL2335SW</b>
Gray Valox® housing and flange, reverse service (Not shown).	-	<b>HBL2325SWR</b>	-

Note: See page B-54 for accessories.

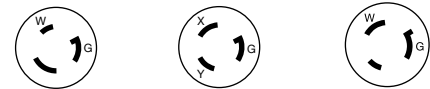
### Insulgrip®

Description	Catalog Number	IP20 SUITABILITY
Nylon casing, back wired.	<b>HBL2315</b>	<b>HBL2325</b> <b>HBL2335</b>

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.

See page B-74 for technical information on Valise® plugs and connectors.



<b>20A 125V NEMA L5-20P 1 HP</b>	<b>20A 250V NEMA L6-20P 2 HP</b>	<b>20A 277V AC NEMA L7-20P 2 HP</b>
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**HBLMITL** - For use with Watertight Safety-Shroud receptacles, see page B-41.



Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

**20 Amp, 125, 250 Volts and 277 Volts AC  
2 Pole, 3 Wire, Grounding**



20A 125V NEMA L5-20P 1 HP	20A 250V NEMA L6-20P 2 HP	20A 277V AC NEMA L7-20P 2 HP
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## Connector Bodies

**Watertight Safety-Shroud®** IP66 SUITABILITY UL Type 4x, 12

Description	Cord Dia.	Catalog Number		
Black Valox® housing, white Valox® clamps.	.360"-.930" (9-24)	<b>HBL2313SW</b>	<b>HBL2323SW</b>	<b>HBL2333SW</b>

**Insulgrip®** IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon.	.360"-.930" (9-24)	<b>HBL2313</b>	<b>HBL2323</b>	<b>HBL2333</b>
Corrosion resistant, yellow nylon.	.360"-.930" (9-24)	<b>HBL23CM13</b>	<b>HBL23CM23</b>	-
All black nylon.	.360"-.930" (9-24)	<b>HBL2313BK</b>	<b>HBL2323BK</b>	-
Cord clamps with removable inserts. All black nylon.	.360"-.930" (9-24)	<b>HBL2313EBK</b>	<b>HBL2323EBK</b>	-

Note: See page B-52 for accessories.

**Valise®** IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Yellow nylon.	.325"-.720" (8.26-18.3)	<b>HBL2313VY</b>	<b>HBL2323VY</b>	-
Black nylon.	.325"-.720" (8.26-18.3)	<b>HBL2313VBK</b>	<b>HBL2323VBK</b>	<b>HBL2333VBK</b>

Note: See page B-53 for accessories.

## Receptacles

**Watertight Safety-Shroud®** IP66 SUITABILITY UL Type 4x, 12

Description	Catalog Number		
Gray Valox® housing and flange, back wired.	<b>HBL2310SW</b>	<b>HBL2320SW</b>	<b>HBL2330SW</b>

Note: See page B-54 for accessories.

**Safety-Shroud® Twist-Lock®** IP20 SUITABILITY

Description	Catalog Number		
Gray Valox® angle housing, one gang, back wired.	<b>HBL2310AR</b>	<b>HBL2320AR</b>	<b>HBL2330AR</b>
Gray Valox® surface mounting, one gang, back wired.	<b>HBL2310SR</b>	<b>HBL2320SR</b>	<b>HBL2330SR</b>
Gray Valox® semi-flush, two gang, back wired.	<b>HBL2310SR2</b>	<b>HBL2320SR2</b>	<b>HBL2330SR2</b>

**Single Flush Receptacles** IP20 SUITABILITY

Description	Catalog Number		
Black nylon face, back and side wired.	<b>HBL2310</b>	<b>HBL2320</b>	<b>HBL2330</b>
Blue nylon face, back and side wired.	<b>HBL2310M7</b>	<b>HBL2320M4</b>	-
Isolated ground, orange nylon face, back and side wired.	<b>IG2310</b>	<b>IG2320</b>	-
Corrosion resistant, yellow nylon face, back and side wired.	<b>HBL23CM10</b>	-	-
Ring terminal connection.	<b>HBL2310RT</b>	<b>HBL2320RT</b>	-

Note: See page B-52 for accessories.

## Insulgrip® Flanged Receptacles

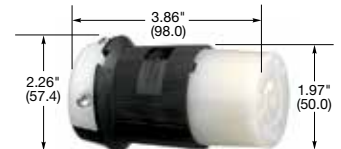
Description	Catalog Number		
Nylon casing, back wired.	<b>HBL2316</b>	<b>HBL2326</b>	<b>HBL2336</b>

Note: See page B-52 for accessories.

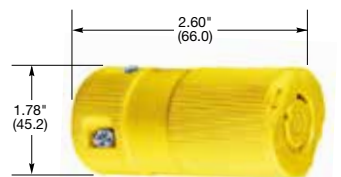
Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



**HBL2323SW**



**HBL2313**



**HBL2313VY**



**HBL2320SW**



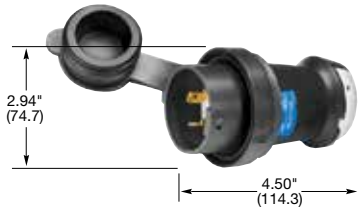
**HBL2320AR**



**HBL2320SR**

Dimensions in Inches (mm)

20 Amp, 125/250, 3Ø 250 and 3Ø 480 Volts AC  
3 Pole, 4 Wire, Grounding



**HBL2421SW**



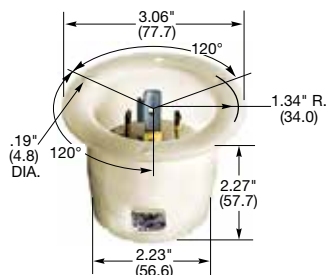
**HBL2421S**



**HBL2411**



**HBL2425SW**



**HBL2415**



20A 125/250V AC  
NEMA L14-20P  
2 (1) HP



20A 3Ø 250V AC  
NEMA L15-20P  
3 HP



20A 3Ø 480V AC  
NEMA L16-20P  
3 HP

## Plugs

### Watertight Safety-Shroud®

IP66 SUITABILITY UL Type 4x, 12

Description	Cord Dia.	Catalog Number		
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2411SW</b>	<b>HBL2421SW</b>	<b>HBL2431SW</b>

### Safety-Shroud®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.350"-1.150" (9-29)	<b>HBL2411S</b>	<b>HBL2421S</b>	<b>HBL2431S</b>

Note: See page B-52 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2411</b>	<b>HBL2421</b>	<b>HBL2431</b>
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL24CM11</b>	<b>HBL24CM21</b>	<b>HBL24CM31</b>
All black nylon.	.350"-1.150" (9-29)	<b>HBL2411BK</b>	-	-

Note: See page B-52 for accessories.

## Flanged Inlets

### Watertight Safety-Shroud®

IP66 SUITABILITY UL Type 4x, 12

Description	Catalog Number		
Gray Valox® housing and flange.	<b>HBL2415SW</b>	<b>HBL2425SW</b>	<b>HBL2435SW</b>

Note: See page B-54 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Catalog Number		
Nylon casing, back wired.	<b>HBL2415</b>	<b>HBL2425</b>	<b>HBL2435</b>

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.



**HBLMITL** - For use with Watertight Safety-Shroud receptacles, see page B-41.

Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Twist-Lock® Devices



**20 Amp, 125/250, 3Ø 250 and 3Ø 480 Volts AC  
3 Pole, 4 Wire, Grounding**



**20A 125/250V AC  
NEMA L14-20R  
2 (1) HP**

**20A 3Ø 250V AC  
NEMA L15-20R  
3 HP**

**20A 3Ø 480V AC  
NEMA L16-20R  
3 HP**

## Connector Bodies

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Cord Dia.	Catalog Number		
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2413SW</b>	<b>HBL2423SW</b>	<b>HBL2433SW</b>



**HBL2423SW**

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2413</b>	<b>HBL2423</b>	<b>HBL2433</b>
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL24CM13</b>	<b>HBL24CM23</b>	<b>HBL24CM33</b>
All black nylon.	.350"-1.150" (9-29)	<b>HBL2413BK</b>	-	-



**HBL2413**

## Receptacles

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Catalog Number		
Gray Valox® housing and flange, back wired.	<b>HBL2410SW</b>	<b>HBL2420SW</b>	<b>HBL2430SW</b>

Note: See page B-54 for accessories.



**HBL2420SW**

### Safety-Shroud® Twist-Lock®

IP20 SUITABILITY

Description	Catalog Number		
Gray Valox® angle housing, one gang, back wired.	<b>HBL2410AR</b>	<b>HBL2420AR</b>	<b>HBL2430AR</b>
Gray Valox® surface mounting, one gang, back wired.	<b>HBL2410SR</b>	<b>HBL2420SR</b>	<b>HBL2430SR</b>
Gray Valox® semi-flush, two gang, back wired.	<b>HBL2410SR2</b>	<b>HBL2420SR2</b>	<b>HBL2430SR2</b>

### Single Flush Receptacles

IP20 SUITABILITY

Description	Catalog Number		
Black nylon face, back and side wired.	<b>HBL2410</b>	<b>HBL2420</b>	<b>HBL2430</b>
Isolated ground, orange nylon face, back and side wired.	<b>IG2410</b>	<b>IG2420</b>	-
Ring terminal connection.	<b>HBL2410RT</b>	<b>HBL2420RT</b>	-

Note: See page B-52 for accessories.



**HBL2420AR**

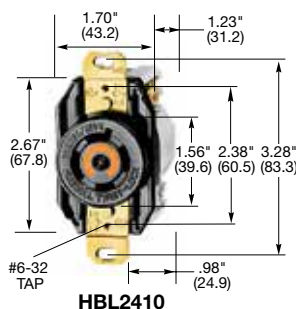
### Insulgrip® Flanged Receptacles

Description	Catalog Number		
Nylon casing, back wired.	<b>HBL2416</b>	<b>HBL2426</b>	<b>HBL2436</b>

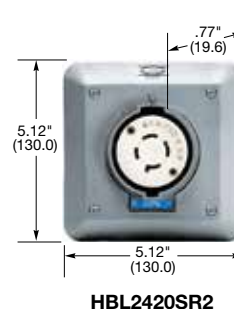
Note: See page B-52 for accessories.



**HBL2416**



**HBL2410**



**HBL2420SR2**



**HBL2420SR**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)

**20 Amp, 347, 480, 600 and 125/250 Volts AC**  
**2 Pole, 3 Wire, Grounding and 3 Pole, 3 Wire, Non-Grounding**

**IP20**  
SUITABILITY



**HBL2341**

## Plugs

Description	Cord Dia.	Catalog Number	20A 347V AC NEMA L24-20P	20A 480V AC NEMA L8-20P 3 HP	20A 600V AC NEMA L9-20P	20A 125/250V AC NEMA L10-20P 2 (1) HP
Black and white nylon.	.360"-.930" (9-24)	<b>HBL3721</b>	<b>HBL2341</b>	<b>HBL2351</b>	-	-
Black and white nylon (Not shown).	.300"-1.050" (7.6-26.7)	-	-	-	<b>HBL2361</b>	-

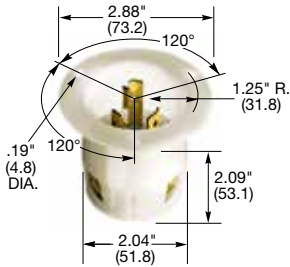
Note: See page B-52 for accessories.

## Flanged Inlets

Description	Catalog Number	20A 347V AC NEMA L24-20R	20A 480V AC NEMA L8-20R 3 HP	20A 600V AC NEMA L9-20R	20A 125/250V AC NEMA L10-20R 2 (1) HP
Nylon casing, back wired.	<b>HBL3725</b>	<b>HBL2345</b>	<b>HBL2355</b>	<b>HBL2365</b>	-

Note: See page B-52 for accessories.

**IP20**  
SUITABILITY

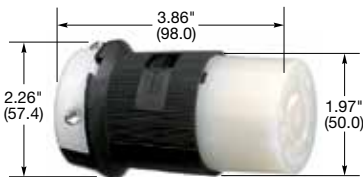


**HBL2345**

## Connector Bodies

Description	Cord Dia.	Catalog Number	20A 347V AC NEMA L24-20R	20A 480V AC NEMA L8-20R 3 HP	20A 600V AC NEMA L9-20R	20A 125/250V AC NEMA L10-20R 2 (1) HP
Black and white nylon.	.360"-.930" (9-24)	<b>HBL3723</b>	<b>HBL2343</b>	<b>HBL2353</b>	-	-
Black and white nylon (Not shown).	.300"-1.050" (7.6-26.7)	-	-	-	<b>HBL2363</b>	-

Note: See page B-52 for accessories.



**HBL2343**

## Single Flush Receptacles

Description	Catalog Number	20A 347V AC NEMA L24-20R	20A 480V AC NEMA L8-20R 3 HP	20A 600V AC NEMA L9-20R	20A 125/250V AC NEMA L10-20R 2 (1) HP
Black nylon face, back and side wired.	<b>HBL3720</b>	<b>HBL2340</b>	<b>HBL2350</b>	<b>HBL2360</b>	-
Watertight Safety-Shroud®, gray Valox® housing and flange, back and side wired, (Not shown).	-	<b>HBL2340SW</b>	-	-	-
Isolated ground, orange nylon face, back and side wired.	-	<b>IG2340</b>	-	-	-

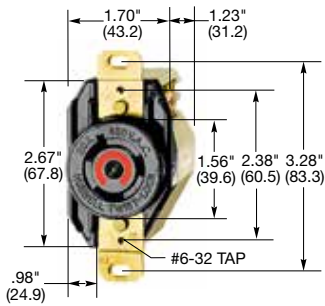
Note: See page B-52 for accessories.

## Flanged Receptacles

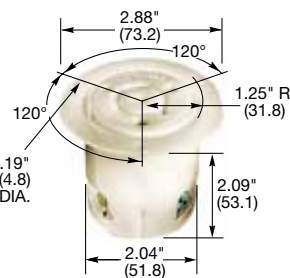
Description	Catalog Number	20A 347V AC NEMA L24-20R	20A 480V AC NEMA L8-20R 3 HP	20A 600V AC NEMA L9-20R	20A 125/250V AC NEMA L10-20R 2 (1) HP
Nylon casing, back wired.	<b>HBL3726</b>	<b>HBL2346</b>	<b>HBL2356</b>	<b>HBL2366</b>	-

Note: See page B-52 for accessories.

See page B-69 for technical information.  
 See page B-39 for switched enclosure.  
 See page B-42 for Add-A-Shroud® kit. For use with connector bodies.  
 Only receptacles and plugs up to 480V AC are HP rated.  
 HP ratings are AC only.



**HBL2340**



**HBL2346**

Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



## 20 Amp, 3ØY 120/208, 277/480 and 347/600 Volts AC 4 Pole, 4 Wire, Non-Grounding

**IP20**  
SUITABILITY



20A 3ØY 120/208V AC  
NEMA L18-20P  
2 HP

20A 277/480V AC  
NEMA L19-20P  
5 HP

20A 347/600V AC  
NEMA L20-20P

### Plugs

Description	Cord Dia.	Catalog Number	Catalog Number	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2441</b>	<b>HBL2451</b>	<b>HBL2461</b>

Note: See page B-52 for accessories.

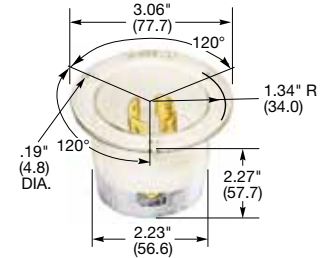


**HBL2441**

### Flanged Inlets

Description	Catalog Number	Catalog Number	Catalog Number
Nylon casing, back wired.	<b>HBL2445</b>	<b>HBL2455</b>	<b>HBL2465</b>

Note: See page B-52 for accessories.



**HBL2445**

**IP20**  
SUITABILITY



20A 3ØY 120/208V AC  
NEMA L18-20P  
2 HP

20A 277/480V AC  
NEMA L19-20P  
5 HP

20A 347/600V AC  
NEMA L20-20P

### Connector Bodies

Description	Cord Dia.	Catalog Number	Catalog Number	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2443</b>	<b>HBL2453</b>	<b>HBL2463</b>

Note: See page B-52 for accessories.

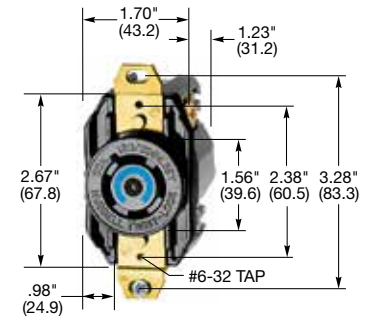


**HBL2443**

### Single Flush Receptacles

Description	Catalog Number	Catalog Number	Catalog Number
Black nylon face, back and side wired.	<b>HBL2440</b>	<b>HBL2450</b>	<b>HBL2460</b>

Note: See page B-52 for accessories.



**HBL2440**

### Flanged Receptacles

Description	Catalog Number	Catalog Number	Catalog Number
Nylon casing, back wired.	<b>HBL2446</b>	<b>HBL2456</b>	<b>HBL2466</b>

Note: See page B-52 for accessories.

See page B-69 for technical information.

See page B-39 for switched enclosure.

See page B-42 for Add-A-Shroud® kit. For use with connector bodies.

Only receptacles and plugs up to 480V AC are HP rated.

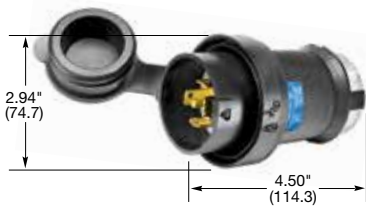
HP ratings are AC only.



**HBL2446**

Dimensions in Inches (mm)

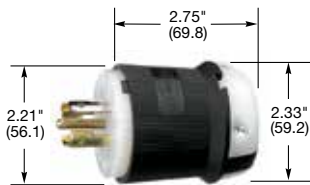
**20 Amp, 3ØY 120/208, 277/480 and 347/600 Volts AC  
4 Pole, 5 Wire, Grounding**



**HBL2511SW**



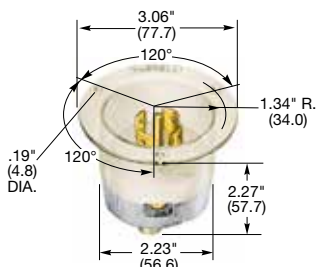
**HBL2511S**



**HBL2511**



**HBL2515SW**



**HBL2515**



**HBL3PT2511**

Dimensions in Inches (mm)

## Plugs

### Watertight Safety-Shroud®

Description	Cord Dia.	Catalog Number	IP66 SUITABILITY	UL Type 4x, 12
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2511SW</b>	-	-

### Safety-Shroud®

Description	Cord Dia.	Catalog Number	IP20 SUITABILITY	UL Type 4x, 12
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.350"-1.150" (9-29)	<b>HBL2511S</b>	-	-

Note: See page B-40 for accessories.

### Insulgrip®

Description	Cord Dia.	Catalog Number	IP20 SUITABILITY	UL Type 4x, 12
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2511</b>	<b>HBL2521</b>	<b>HBL2531</b>
All black nylon.	.350"-1.150" (9-29)	<b>HBL2511BK</b>	-	-
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL25CM11</b>	-	-
Black and white for flat cable.	.350"-1.150" (9-29)	<b>HBL2511FC</b>	-	-

Note: See page B-52 for accessories.

## Flanged Inlets

### Watertight Safety-Shroud®

Description	Catalog Number	IP66 SUITABILITY	UL Type 4x, 12
Gray Valox® housing and flange.	<b>HBL2515SW</b>	-	-

Note: See page B-52 for accessories.

### Insulgrip®

Description	Catalog Number	IP20 SUITABILITY	UL Type 4x, 12
Nylon casing, back wired.	<b>HBL2515</b>	<b>HBL2525</b>	<b>HBL2535</b>

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.

## Twist-Lock® 3-Phase Circuit Tester



Description	Rating	Catalog Number	IP66 SUITABILITY	UL Type 4x, 12
3-Phase Circuit Tester	3Ø 120/208V AC Min. Voltage: 90V AC	<b>HBL3PT2511</b>	-	-

Note: Testers in other NEMA configurations can be developed upon request.  
See page B-53 for additional circuit testers.

**HBLMITL** - For use with Watertight Safety-Shroud receptacles, see page B-41.



Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Twist-Lock® Devices



**20 Amp, 3ØY 120/208, 277/480 and 347/600 Volts AC**  
**4 Pole, 5 Wire, Grounding**



20A 3ØY 120/208V AC NEMA L21-20R 2 HP	20A 3ØY 277/480V AC NEMA L22-20R 5 HP	20A 3ØY 347/600V AC NEMA L23-20R
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## Connector Bodies

		IP66 SUITABILITY		UL Type 4x, 12	
<b>Watertight Safety-Shroud®</b>					
Description	Cord Dia.	Catalog Number			
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2513SW</b>	-	-	
<b>Insulgrip®</b>		IP20 SUITABILITY			
Description	Cord Dia.	Catalog Number			
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2513</b>	<b>HBL2523</b>	<b>HBL2533</b>	
All black nylon.	.350"-1.150" (9-29)	<b>HBL2513BK</b>	-	-	
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL25CM13</b>	-	-	
Black and white for flat cable.	.350"-1.150" (9-29)	<b>HBL2513FC</b>	-	-	

Note: See page B-52 for accessories.



## Receptacles

		IP66 SUITABILITY		UL Type 4x, 12	
<b>Watertight Safety-Shroud®</b>					
Description		Catalog Number			
Gray Valox® housing and flange, back wired.		<b>HBL2510SW</b>	-	-	
<b>Safety-Shroud® Twist-Lock®</b>		IP20 SUITABILITY			
Description		Catalog Number			
Gray Valox® angle housing, one gang, back wired.		<b>HBL2510AR</b>	-	-	
Gray Valox® surface mounting, one gang, back wired.		<b>HBL2510SR</b>	-	-	
Gray Valox® semi-flush, two gang, back wired.		<b>HBL2510SR2</b>	-	-	

		IP20 SUITABILITY		
<b>Single Flush Receptacles</b>				
Description		Catalog Number		
Black nylon face, back and side wired.		<b>HBL2510</b>	<b>HBL2520*</b>	<b>HBL2530*</b>
Isolated ground, orange nylon face, back and side wired.		<b>IG2510</b>	-	-

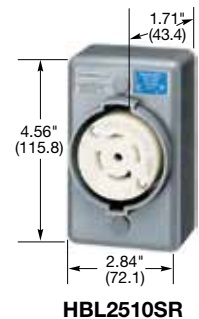
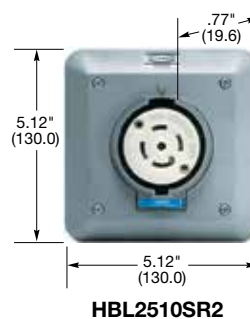
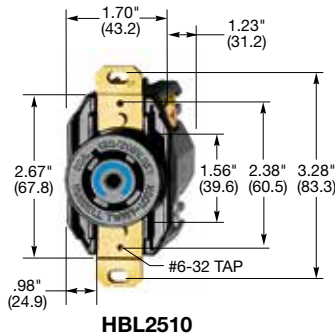
Note: See page B-52 for accessories.  
 \*Not Fed Spec.



## Insulgrip® Flanged Receptacles

		IP20 SUITABILITY		
Description		Catalog Number		
Nylon casing, back wired.		<b>HBL2516</b>	<b>HBL2526</b>	<b>HBL2536</b>

Note: See page B-52 for accessories.



Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)

**30 Amp, 125, 250 Volts and 277 Volts AC  
2 Pole, 3 Wire, Grounding**



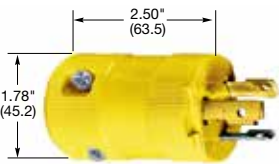
**HBL2611SW**



**HBL2621S**



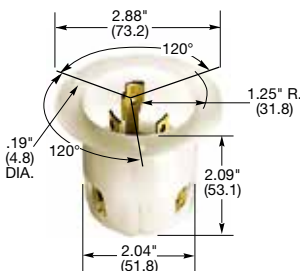
**HBL2621**



**HBL2611VY**



**HBL2615SW**



**HBL2625**

Dimensions in Inches (mm)



**30A 125V  
NEMA L5-30P  
2 HP**



**30A 250V  
NEMA L6-30P  
2 HP**



**30A 277V AC  
NEMA L7-30P  
3 HP**

## Plugs

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Cord Dia.	Catalog Number		
Black Valox® housing, white Valox® clamps.	.325"-.930" (9-24)	<b>HBL2611SW</b>	<b>HBL2621SW</b>	-

### Safety-Shroud®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.360"-.930" (9-24)	<b>HBL2611S</b>	<b>HBL2621S</b>	-

Note: See page B-40 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon.	.360"-.930" (9-24)	<b>HBL2611</b>	<b>HBL2621</b>	<b>HBL2631</b>
Heat stabilized, gray nylon, 220° F (104° C).	.360"-.930" (9-24)	<b>HBL2611F</b>	<b>HBL2621F</b>	-
Corrosion resistant, yellow nylon.	.360"-.930" (9-24)	<b>HBL26CM11</b>	<b>HBL26CM21</b>	-
All black nylon.	.360"-.930" (9-24)	<b>HBL2611BK</b>	<b>HBL2621BK</b>	-

Note: See page B-52 for accessories.

### Valise®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Yellow nylon.	.590"-.930" (15.0-23.6)	<b>HBL2611VY</b>	<b>HBL2621VY</b>	-
Corrosion resistant, yellow nylon.	.590"-.930" (15.0-23.6)	<b>HBL26CM11V</b>	-	-
Black nylon.	.590"-.930" (15.0-23.6)	<b>HBL2611VBK</b>	<b>HBL2621VBK</b>	-

Note: See page B-53 for accessories.

## Flanged Inlets

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Catalog Number		
Gray Valox® housing and flange.	<b>HBL2615SW</b>	<b>HBL2625SW</b>	-
Reverse service, gray Valox® housing and flange (use with HBL2613SR), (Not shown).	<b>HBL2615SWR</b>	-	-

Note: See page B-54 for accessories.

### Insulgrip®

IP20 SUITABILITY

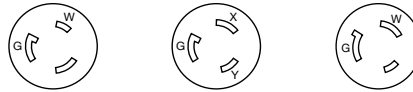
Description	Catalog Number		
Nylon casing, back wired.	<b>HBL2615</b>	<b>HBL2625</b>	<b>HBL2635</b>
Heat stabilized, gray nylon, 220° F (104° C).	<b>HBL2615F</b>	<b>HBL2625F</b>	-
Nylon casing, weather protective, die cast aluminum, back wired, self closing lift cover.	<b>HBL2615M3</b>	-	-

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.  
See page B-74 for technical information on Valise plugs and connectors.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

**30 Amp, 125, 250 Volts and 277 Volts AC  
2 Pole, 3 Wire, Grounding**



30A 125V NEMA L5-30P 2 HP	30A 250V NEMA L6-30P 2 HP	30A 277V AC NEMA L7-30P 3 HP
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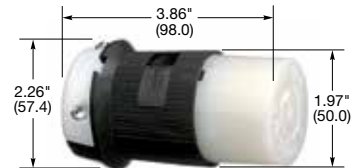
## Connector Bodies

Watertight Safety-Shroud®		IP66 SUITABILITY	UL Type 4x, 12	
Description	Cord Dia.	Catalog Number		
Black Valox® housing, white Valox® clamps.	.360"-.930" (9-24)	<b>HBL2613SW</b>	<b>HBL2623SW</b>	-
Reverse service, black Valox® housing, white Valox® clamps (use with HBL2615SWR), (Not shown).	.360"-.930" (9-24)	<b>HBL2613SR</b>	-	-

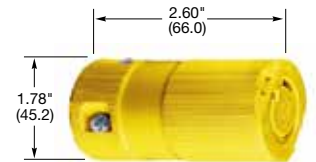


**HBL2613SW**

Insulgrip®		IP20 SUITABILITY		
Description	Cord Dia.	Catalog Number		
Black and white nylon.	.360"-.930" (9-24)	<b>HBL2613</b>	<b>HBL2623</b>	<b>HBL2633</b>
Heat stabilized, gray nylon, 220° F (104° C).	.360"-.930" (9-24)	<b>HBL2613F</b>	<b>HBL2623F</b>	-
Corrosion resistant, yellow nylon.	.360"-.930" (9-24)	<b>HBL26CM13</b>	<b>HBL26CM23</b>	-
All black nylon.	.360"-.930" (9-24)	<b>HBL2613BK</b>	<b>HBL2623BK</b>	-



**HBL2623**



**HBL2613VY**

Note: See page B-52 for accessories.

Valise®		IP20 SUITABILITY		
Description	Cord Dia.	Catalog Number		
Yellow nylon.	.590"-.930" (15.0-23.6)	<b>HBL2613VY</b>	<b>HBL2623VY</b>	-
Corrosion resistant, yellow nylon.	.590"-.930" (15.0-23.6)	<b>HBL26CM13V</b>	-	-
Black nylon.	.590"-.930" (15.0-23.6)	<b>HBL2613VBK</b>	<b>HBL2623VBK</b>	-



**HBL2610SW**

Note: See page B-53 for accessories.

## Receptacles

Watertight Safety-Shroud®		IP66 SUITABILITY	UL Type 4x, 12	
Description	Catalog Number			
Gray Valox® housing and flange, back wired.	<b>HBL2610SW</b> <b>HBL2620SW</b> -			

Note: See page B-54 for accessories.

Safety-Shroud® Twist-Lock®		IP20 SUITABILITY		
Description	Catalog Number			
Gray Valox® angle housing, one gang, back wired.	<b>HBL2610AR</b> <b>HBL2620AR</b> -			
Gray Valox® surface mounting, one gang, back wired.	<b>HBL2610SR</b> <b>HBL2620SR</b> -			
Gray Valox® semi-flush, two gang, back wired.	<b>HBL2610SR2</b> <b>HBL2620SR2</b> -			



**HBL2620AR**

Single Flush Receptacles		IP20 SUITABILITY		
Description	Catalog Number			
Black nylon face, back and side wired.	<b>HBL2610</b> <b>HBL2620</b> <b>HBL2630</b>			
Blue nylon face, back and side wired.	<b>HBL2610M6</b> <b>HBL2620M6</b> -			
Isolated ground, orange nylon face, back and side wired.	<b>IG2610</b> <b>IG2620</b> -			
Corrosion resistant, yellow nylon face, back and side wired.	<b>HBL26CM10</b> <b>HBL26CM20</b> -			
Ring terminal connection.	<b>HBL2610RT</b> <b>HBL2620RT</b> -			

Note: See page B-52 for accessories.

## Insulgrip® Flanged Receptacles

Description	Catalog Number		
Nylon casing, back wired.	<b>HBL2616</b>	<b>HBL2626</b>	<b>HBL2636</b>
Heat stabilized, gray nylon, 220° F (104° C).	<b>HBL2616F</b>	<b>HBL2626F</b>	-

Note: See page B-52 for accessories.



**HBL2620SR**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)



**30 Amp, 125/250 and 3Ø 250 Volts AC**  
**3 Pole, 3 Wire, Non-Grounding and 3 Pole, 4 Wire, Grounding**



30A 125/250V AC NEMA L10-30P	30A 125/250V AC NEMA L14-30P 2 (2) HP	30A 3Ø 250V AC NEMA L15-30P 3 HP
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**HBL2711SW**



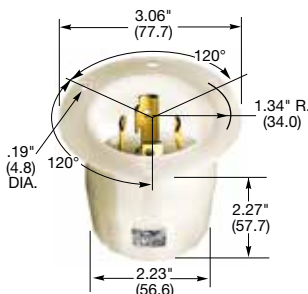
**HBL2711S**



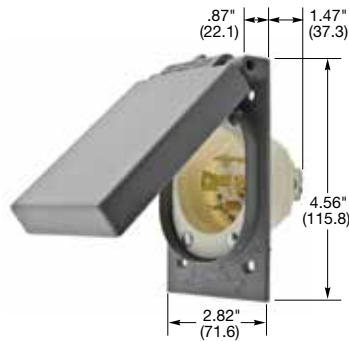
**HBL2711**



**HBL2715SW**



**HBL2715**



**HBL2715M3**

## Plugs

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Cord Dia.	Catalog Number
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	- <b>HBL2711SW</b> <b>HBL2721SW</b>

### Safety-Shroud®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.350"-1.150" (9-29)	- <b>HBL2711S</b> <b>HBL2721S</b>

Note: See page B-40 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	- <b>HBL2711</b> <b>HBL2721</b>
Black and white nylon, (Not shown).	.300"-1.950" (7.6-24.1)	<b>HBL2661</b> -    -
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	- <b>HBL27CM11</b> <b>HBL27CM21</b>
All black nylon.	.350"-1.150" (9-29)	- <b>HBL2711BK</b> -

Note: See page B-52 for accessories.

## Flanged Inlets

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Catalog Number
Gray Valox® housing and flange.	- <b>HBL2715SW</b> <b>HBL2725SW</b>
Reverse service, gray Valox® housing and flange (use with HBL2713SR), (Not shown).	- <b>HBL2715SWR</b> -

Note: See page B-54 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL2715</b> <b>HBL2725</b>
Nylon casing, back wired, (Not shown).	<b>HBL2665</b> -    -
Nylon casing, weather protective, die cast aluminum, back wired, self closing lift cover.	- <b>HBL2715M3</b> -

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.



**HBLMITL** - For use with Watertight Safety-Shroud receptacles and reverse service inlet, see page B-41.

Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

**30 Amp, 125/250 and 3Ø 250 Volts AC  
3 Pole, 3 Wire, Non-Grounding and  
3 Pole, 4 Wire, Grounding**



30A 125/250V AC  
NEMA L10-30R

30A 125/250V AC  
NEMA L14-30R  
2 (2) HP

30A 3Ø 250V AC  
NEMA L15-30R  
3 HP

## Connector Bodies

### Watertight Safety-Shroud®

IP66 SUITABILITY UL Type 4x, 12

Description	Cord Dia.	Catalog Number		
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	-	<b>HBL2713SW</b>	<b>HBL2723SW</b>
Reverse service, black Valox® housing, white Valox® clamps (use with HBL2715SWR), (Not shown).	.350"-1.150" (9-29)	-	<b>HBL2713SR</b>	-



**HBL2713SW**

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number		
Black and white nylon.	.350"-1.150" (9-29)	-	<b>HBL2713</b>	<b>HBL2723</b>
Black and white nylon, (Not shown).	.300"-.950" (7.6-24.1)	<b>HBL2663</b>	-	-
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	-	<b>HBL27CM13</b>	<b>HBL27CM23</b>
All black nylon.	.350"-1.150" (9-29)	-	<b>HBL2713BK</b>	-



**HBL2713**

Note: See page B-52 for accessories.

## Receptacles

### Watertight Safety-Shroud®

IP66 SUITABILITY UL Type 4x, 12

Description	Catalog Number		
Gray Valox® housing and flange, back wired.	-	<b>HBL2710SW</b>	<b>HBL2720SW</b>

Note: See page B-54 for accessories.



**HBL2710SW**

### Safety-Shroud® Twist-Lock®

IP20 SUITABILITY

Description	Catalog Number		
Gray Valox® angle housing, one gang, back wired.	-	<b>HBL2710AR</b>	<b>HBL2720AR</b>
Gray Valox® surface mounting, one gang, back wired.	-	<b>HBL2710SR</b>	<b>HBL2720SR</b>
Gray Valox® semi-flush, two gang, back wired.	-	<b>HBL2710SR2</b>	<b>HBL2720SR2</b>

### Single Flush Receptacles

IP20 SUITABILITY

Description	Catalog Number		
Black nylon face, back and side wired.	-	<b>HBL2710</b>	<b>HBL2720</b>
Black nylon face, back and side wired, (Not shown).	<b>HBL2660</b>	-	-
Isolated ground, orange nylon face, back and side wired.	-	<b>IG2710</b>	<b>IG2720</b>
Ring terminal connection.	-	<b>HBL2710RT</b>	<b>HBL2720RT</b>

Note: See page B-52 for accessories.



**HBL2710AR**

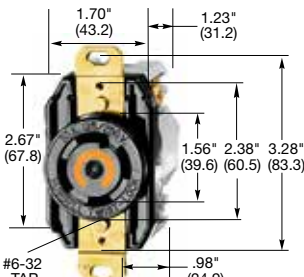
### Insulgrip® Flanged Receptacles

Description	Catalog Number		
Nylon casing, back wired.	-	<b>HBL2716</b>	<b>HBL2726</b>

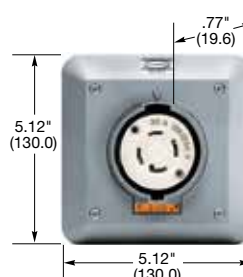
Note: See page B-52 for accessories.



**HBL2716**



**HBL2710**



**HBL2710SR2**



**HBL2710SR**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)

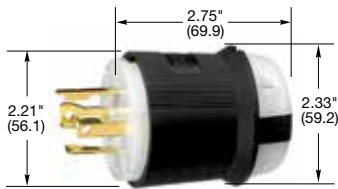
**30 Amp, 3Ø 480 and 3Ø 600 Volts AC  
3 Pole, 4 Wire, Grounding**



**HBL2731SW**



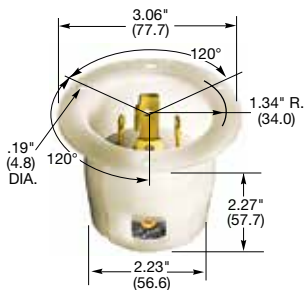
**HBL2731S**



**HBL2731**



**HBL2735SW**



**HBL2735**

Dimensions in Inches (mm)

## Plugs

### Watertight Safety-Shroud®

Description	Cord Dia.	Catalog Number
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2731SW</b> <b>HBL2741SW</b>

### Safety-Shroud®

Description	Cord Dia.	Catalog Number
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.350"-1.150" (9-29)	<b>HBL2731S</b> <b>HBL2741S</b>

Note: See page B-40 for accessories.

### Insulgrip®

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2731</b> <b>HBL2741</b>
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL27CM31</b> <b>HBL27CM41</b>

Note: See page B-52 for accessories.



**30A 3Ø 480V AC  
NEMA L16-30P  
10 HP**



**30A 3Ø 600V AC  
NEMA L17-30P**

## Flanged Inlets

### Watertight Safety-Shroud®

Description	Catalog Number
Gray Valox® housing and flange.	<b>HBL2735SW</b> <b>HBL2745SW</b>

Note: See page B-54 for accessories.

### Insulgrip®

Description	Catalog Number
Nylon casing, back wired.	<b>HBL2735</b> <b>HBL2745</b>

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.

**HBLMITL** - For use with Watertight Safety-Shroud receptacles, see page B-41.



Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

**30 Amp, 3Ø 480 and 3Ø 600 Volts AC  
3 Pole, 4 Wire, Grounding**



**30A 3Ø 480V AC  
NEMA L16-30R  
10 HP**

**30A 3Ø 600V AC  
NEMA L17-30R**

## Connector Bodies

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Cord Dia.	Catalog Number	
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2733SW</b>	<b>HBL2743SW</b>

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number	
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2733</b>	<b>HBL2743</b>
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL27CM33</b>	<b>HBL27CM43</b>

Note: See page B-52 for accessories.



**HBL2733SW**



**HBL2733**

## Receptacles

### Watertight Safety-Shroud®

IP66 SUITABILITY    UL Type 4x, 12

Description	Catalog Number	
Gray Valox® housing and flange, back wired.	<b>HBL2730SW</b>	<b>HBL2740SW</b>

Note: See page B-54 for accessories.

### Safety-Shroud® Twist-Lock®

IP20 SUITABILITY

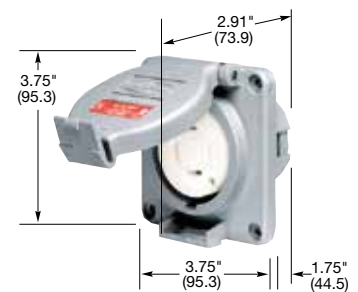
Description	Catalog Number	
Gray Valox® angle housing, one gang, back wired.	<b>HBL2730AR</b>	<b>HBL2740AR</b>
Gray Valox® surface mounting, one gang, back wired.	<b>HBL2730SR</b>	<b>HBL2740SR</b>
Gray Valox® semi-flush, two gang, back wired.	<b>HBL2730SR2</b>	<b>HBL2740SR2</b>

### Single Flush Receptacles

IP20 SUITABILITY

Description	Catalog Number	
Black nylon face, back and side wired.	<b>HBL2730</b>	<b>HBL2740</b>

Note: See page B-52 for accessories.



**HBL2730SW**

### Insulgrip® Flanged Receptacles

Description	Catalog Number	
Nylon casing, back wired.	<b>HBL2736</b>	<b>HBL2746</b>

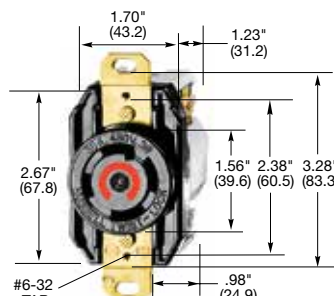
Note: See page B-52 for accessories.



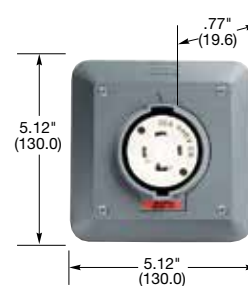
**HBL2730AR**



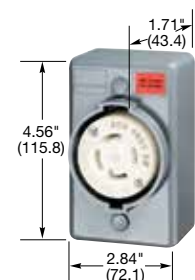
**HBL2736**



**HBL2730**



**HBL2730SR2**



**HBL2730SR**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)

**30 Amp, 3ØY 120/208, 277/480 and 347/600 Volts AC  
4 Pole, 5 Wire, Grounding**



**HBL2811SW**



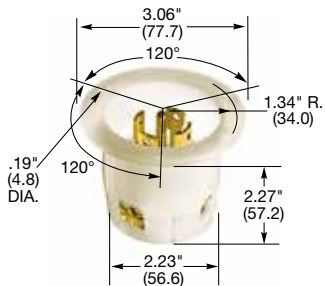
**HBL2811S**



**HBL2811**



**HBL2815SW**



**HBL2815**



**HBL3PT2811**

Dimensions in Inches (mm)



**30A 3ØY  
120/208V AC  
NEMA L21-30P  
3 HP**



**30A 3ØY  
240/415V AC  
NEMA L26-30P**



**30A 3ØY  
277/480V AC  
NEMA L22-30P  
10 HP**



**30A 3ØY  
347/600V AC  
NEMA L23-30P**

## Plugs

### Watertight Safety-Shroud®

IP66 SUITABILITY

UL Type 4x, 12

Description	Cord Dia.	Catalog Number			
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2811SW</b>	<b>HBL2801</b>	<b>HBL2821SW</b>	<b>HBL2831SW</b>

### Safety-Shroud®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number			
Black and white nylon body, white Valox® shroud. Can be used with the Insulgrip Connector Bodies.	.350"-1.150" (9-29)	<b>HBL2811S</b>	-	-	-

Note: See page B-40 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number			
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2811</b>	-	<b>HBL2821</b>	<b>HBL2831</b>
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL28CM11</b>	-	-	-
Black and white for flat cable.	.350"-1.150" (9-29)	<b>HBL2811FC</b>	-	-	-
All black nylon.	.350"-1.150" (9-29)	<b>HBL2811BK</b>	-	-	-

Note: See page B-52 for accessories.

## Flanged Inlets

### Watertight Safety-Shroud®

IP66 SUITABILITY

UL Type 4x, 12

Description	Catalog Number		
Gray Valox® housing and flange.	<b>HBL2815SW</b>	<b>HBL2805</b>	-

Note: See page B-54 for accessories.

### Insulgrip®

IP20 SUITABILITY

Description	Catalog Number			
Nylon casing, back wired.	<b>HBL2815</b>	-	<b>HBL2825</b>	<b>HBL2835</b>

Note: See page B-52 for accessories.

See pages B-69 and B-70 for technical information on Twist-Lock and Watertight Safety-Shroud devices.

## Twist-Lock® 3-Phase Circuit Tester



Description	Rating	Catalog Number			
3-Phase Circuit Tester	3Ø 120/208V AC Min. Voltage: 90V AC	<b>HBL3PT2811</b>	-	-	-

Note: Testers in other NEMA configurations can be developed upon request.  
See page B-53 for additional circuit testers.

**HBLMITL** - For use with Watertight Safety-Shroud receptacles, see page B-41.



Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



## 30 Amp, 3ØY 120/208, 277/480 and 347/600 Volts AC 4 Pole, 5 Wire, Grounding



**30A 3ØY**  
120/208V AC  
NEMA L21-30R  
3 HP

**30A 3ØY**  
240/415V AC  
NEMA L26-30R

**30A 3ØY**  
277/480V AC  
NEMA L22-30R  
10 HP

**30A 3ØY**  
347/600V AC  
NEMA L23-30R

### Connector Bodies

#### Watertight Safety-Shroud®

IP66 SUITABILITY      UL Type 4x, 12

Description	Cord Dia.	Catalog Number			
Black Valox® housing, white Valox® clamps.	.350"-1.150" (9-29)	<b>HBL2813SW</b>	<b>HBL2803</b>	<b>HBL2823SW</b>	-

#### Insulgrip®

IP20 SUITABILITY

Description	Cord Dia.	Catalog Number			
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL2813</b>	-	<b>HBL2823</b>	<b>HBL2833</b>
Corrosion resistant, yellow nylon.	.350"-1.150" (9-29)	<b>HBL28CM13</b>	-	-	-
Black and white for flat cable.	.350"-1.150" (9-29)	<b>HBL2813FC</b>	-	-	-
All black nylon.	.350"-1.150" (9-29)	<b>HBL2813BK</b>	-	-	-

Note: See page B-52 for accessories.

### Receptacles

#### Watertight Safety-Shroud®

IP66 SUITABILITY      UL Type 4x, 12

Description	Catalog Number			
Gray Valox® housing and flange, back wired.	<b>HBL2810SW</b>	-	<b>HBL2820SW</b>	<b>HBL2830SW</b>

Note: See page B-54 for accessories.

#### Safety-Shroud® Twist-Lock®

IP20 SUITABILITY

Description	Catalog Number			
Gray Valox® angle housing, one gang, back wired.	<b>HBL2810AR</b>	-	-	-
Gray Valox® surface mounting, one gang, back wired.	<b>HBL2810SR</b>	-	-	-
Gray Valox® semi-flush, two gang, back wired.	<b>HBL2810SR2</b>	-	-	-

#### Single Flush Receptacles

IP20 SUITABILITY

Description	Catalog Number			
Black nylon face, back and side wired.	<b>HBL2810</b>	<b>HBL2800</b>	<b>HBL2820</b>	<b>HBL2830</b>
Isolated ground, orange nylon face, back and side wired.	<b>IG2810</b>	-	-	-
Ring terminal connection.	<b>HBL2810RT</b>	-	-	-

Note: See page B-52 for accessories.

#### Insulgrip® Flanged Receptacles

Description	Catalog Number			
Nylon casing, back wired.	<b>HBL2816</b>	-	<b>HBL2826</b>	<b>HBL2836</b>

Note: See page B-52 for accessories.



**HBL2813SW**



**HBL2813**



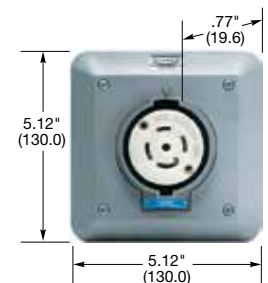
**HBL2810SW**



**HBL2810AR**



**HBL2810SR**

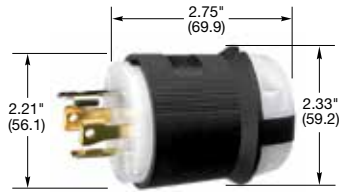


**HBL2810SR2**

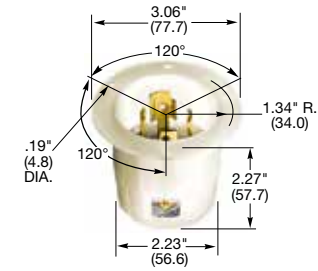
Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## 30 Amp, 3ØY 120/208, 277/480 and 347/600 Volts AC 4 Pole, 4 Wire, Non-Grounding



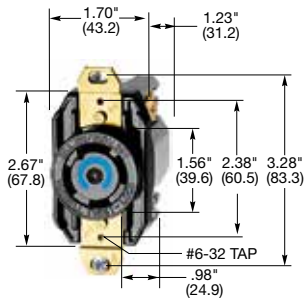
**HBL2751**



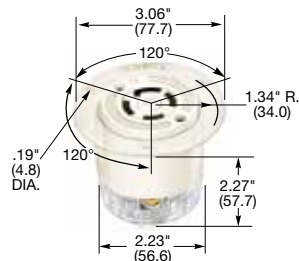
**HBL2755**



**HBL2753**



**HBL2750**



**HBL2756**

**IP20**  
SUITABILITY



### Plugs

Description	Cord Dia.	Catalog Number	30A 3ØY 120/208V AC NEMA L18-30P 3 HP	30A 3ØY 277/480V AC NEMA L19-30P 10 HP	30A 3ØY 347/600V AC NEMA L20-30P
Black and white nylon.	.350"-1.150" (9-29)		<b>HBL2751</b>	<b>HBL2761</b>	<b>HBL2771</b>

Note: See page B-53 for accessories.

### Flanged Inlets

Description	Catalog Number
Nylon casing, back wired.	<b>HBL2755</b> <b>HBL2765</b> <b>HBL2775</b>

Note: See page B-52 for accessories.

**IP20**  
SUITABILITY



### Connector Bodies

Description	Cord Dia.	Catalog Number	30A 3ØY 120/208V AC NEMA L18-30P 3 HP	30A 3ØY 277/480V AC NEMA L19-30P 10 HP	30A 3ØY 347/600V AC NEMA L20-30P
Black and white nylon.	.350"-1.150" (9-29)		<b>HBL2753</b>	<b>HBL2763</b>	<b>HBL2773</b>

Note: See page B-52 for accessories.

### Single Flush Receptacles

Description	Catalog Number
Black nylon face, back and side wired.	<b>HBL2750</b> <b>HBL2760</b> <b>HBL2770</b>

Note: See page B-52 for accessories.

### Flanged Receptacles

Description	Catalog Number
Nylon casing, back wired.	<b>HBL2756</b> <b>HBL2766</b> <b>HBL2776</b>

Note: See page B-52 for accessories.

See page B-69 for technical information on Twist-Lock devices.

Dimensions in Inches (mm)

## 30 Amp, 480 and 600 Volts AC 2 Pole, 3 Wire, Grounding

**IP20**  
SUITABILITY



30A 240V AC  
NEMA L25-30P

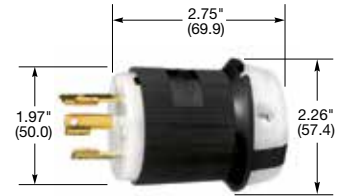
30A 480V AC  
NEMA L8-30P  
5 HP

30A 600V AC  
NEMA L9-30P

### Plugs

Description	Cord Dia.	Catalog Number
Black and white nylon.	.325"-.930" (8.25-24)	<b>HBL2601</b> <b>HBL2641</b> <b>HBL2651</b>

Note: See page B-52 for accessories.

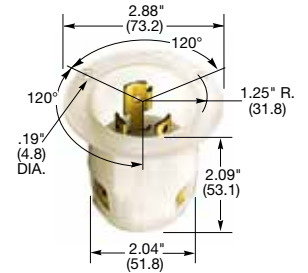


**HBL2651**

### Flanged Inlets

Description	Catalog Number
Nylon casing, back wired.	<b>HBL2605</b> <b>HBL2645</b> <b>HBL2655</b>

Note: See page B-52 for accessories.



**HBL2655**

**IP20**  
SUITABILITY



30A 240V AC  
NEMA L25-30R

30A 480V AC  
NEMA L8-30R  
5 HP

30A 600V AC  
NEMA L9-30R

### Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon.	.325"-.930" (8.25-24)	<b>HBL2603</b> <b>HBL2643</b> <b>HBL2653</b>

Note: See page B-52 for accessories.

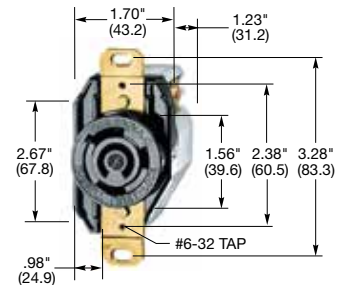


**HBL2653**

### Single Flush Receptacles

Description	Catalog Number
Black nylon face, back and side wired.	<b>HBL2600</b> <b>HBL2640</b> <b>HBL2650</b>

Note: See page B-52 for accessories.



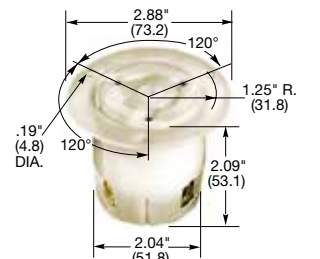
**HBL2650**

### Flanged Receptacles

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL2646</b> <b>HBL2656</b>

Note: See page B-52 for accessories.

See page B-69 for technical information on Twist-Lock devices.



**HBL2656**

Dimensions in Inches (mm)

# Twist-Lock® Devices

## Features and Benefits

### Switched Safety Enclosures

The Switched Twist-Lock® and Hubbell® Enclosures integrate a receptacle and a switch to produce distinct advantages for the user. This enclosure replaces box, switch, cover and all in a compact design that meets Type 3R Rainproof or 12K Dust-tight requirements.

The receptacle is angled downward for a low profile, and it maintains a low profile while accommodating either a 20 or 30 Amp Twist-Lock receptacle or 30 Amp, 4 wire Hubbell receptacle. The enclosure can be used in top, bottom or back feed applications. The handle is designed to be locked in the OFF position for lockout protection.

Hubbell has developed the Switched Safety Enclosure because users want to be able to disconnect higher voltage devices confidently. Hubbell responded with a line of Switched Safety Enclosures for Twist-Lock and Hubbell receptacles.

The provision of the integral switch and the receptacle in a compact, non-metallic enclosure encourages the safe operating practice of disconnecting at the switch rather than the plug and receptacle.

For plants and factories in a wide variety of industries, as well as light industrial facilities, Hubbell's Switched Enclosures offer an upgrade that's convenient, compact and easy to install.



SETL3



#### Housing Design

- Angled 20 or 30 amp Hubbell Twist-Lock receptacle provides low profile and helps control cable arc of bend
- Large receptacle gasketless door and hinge assembly
- Enclosure back is designed for top, bottom or back feed options



#### Internal Design

- Horsepower rated switch
- Heavy-duty internal frame bonds conduit and all grounds and has a DIN rail to accommodate the switch



#### Safety

- Lockable handle provides lockout protection for greater safety and complies with OSHA lockout requirements



#### Wiring

- Remolded conduit entry hole is offset to prevent water condensation from falling directly on interior electrical components



#### Installation

- Moveable feet may be used in horizontal or vertical position or may be removed and premarked holes drilled for Type 1 or 3R installations

# Twist-Lock® Devices

## Switched Twist-Lock® and Hubbellock® Enclosures



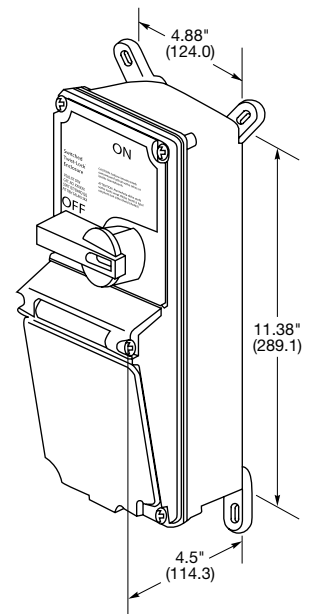
UL Listed, CSA Certified  
Type 3R and 12K Enclosure Rating

**IP54**  
SUITABILITY

### Switched Enclosure Ready for Twist-Lock® Receptacle Addition

Ideal unit for stockroom. This single unit provides the complete enclosure ready to accept any Hubbell 20 or 30A Twist-Lock receptacle.

Description	Ratings	Catalog Number
Switched Twist-Lock enclosure accommodates any NEMA 2 pole, 3 wire to 4 pole, 5 wire grounding receptacle (sold separately).	Amperage, voltage, and horsepower ratings will be determined by the choice of the NEMA 20 or 30A Twist-Lock receptacle selected.	<b>SETL3</b>
Auxiliary contact.	"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	<b>HBLAC1</b>
Auxiliary contact.	"Break Before Main Break", 1 set of n/o contacts.	<b>HBLAC2</b>



**SETL3**

### Switched Enclosure Complete with Twist-Lock® Receptacle

Completely pre-wired with a Twist-Lock receptacle, these application oriented combinations are available to satisfy your needs.

Description	Amps	Voltage	NEMA Config.	Horsepower	Switched Enclosure	Use Twist-Lock Plug
Switched Twist-Lock enclosure with a pre-wired HBL2720 receptacle.	30	3Ø 240V AC	L15-30R	3	<b>SE2720A</b>	<b>HBL2721</b>
Switched Twist-Lock enclosure with a pre-wired HBL2730 receptacle.	30	3Ø 480V AC	L16-30R	10	<b>SE2730A</b>	<b>HBL2731</b>



**SE2720A**

### Switched Enclosure Ready for Hubbellock® Receptacle Addition

Ideal unit for stockroom. This single unit provides the complete enclosure ready to accept your 30A, 4 wire Hubbellock receptacle choice.

Description	Ratings	Catalog Number
Switched enclosure for use with 3 pole 4 wire 30A Hubbellock receptacle (sold separately).	Amperage, voltage, and horsepower ratings will be determined by the choice of the 4 wire Hubbellock receptacle selected.	<b>SEHBL3</b>
Auxiliary contact.	"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	<b>HBLAC1</b>
Auxiliary contact.	"Break Before Main Break", 1 set of n/o contacts.	<b>HBLAC2</b>



**HBLAC1**

**HBLAC2**

### Replacement Mounting Feet

Description	Catalog Number
For 30A switches.	<b>HBLRFT1<sup>Δ</sup></b>

Note: <sup>Δ</sup> Package of 10 feet and 10 screws.  
See page B-72 for technical information on Switched Safety Enclosures.



**HBLRFT1**

Dimensions in Inches (mm)



# Twist-Lock® Devices

## Features and Benefits

### Mechanical Interlock Switched Safety Enclosures

Hubbell offers the only mechanical interlock for Twist-Lock®. This new, unfused mechanical interlock for watertight Safety-Shroud® Twist-Lock® integrates a watertight receptacle with a linked disconnect switch to provide a mechanically interlocked receptacle. This virtually eliminates the possibility of making or breaking the circuit while under load or making a casual or “lazy” connection.

The switch cannot be turned ON until the plug is properly inserted and locked, and the plug cannot be removed until the switch is turned OFF. All these protective features are included in a compact Type 4X hose-directed water and corrosion resistant enclosure that allows for top, bottom or back feed options.

The non-metallic enclosure is nonconductive, yet has an internal frame to assure ground continuity with metallic conduit.

In addition, this interlock works with all Safety-Shroud Twist-Lock Plugs. The new unfused mechanical interlock for watertight Safety-Shroud Twist-Lock can be locked out as a method of compliance with OSHA lockout/tagout regulations.



HBLMITL



#### Housing Design

- Angled 20 or 30 amp Hubbell Watertight Safety-Shroud Twist-Lock receptacle provides watertight, low profile and mechanical interlock capabilities (ordered separately)
- Enclosure back is designed for top, bottom or back feed options



#### Internal Design

- Horsepower rated switch
- Heavy-duty internal frame bonds conduit and all grounds and has a DIN rail to accommodate the switch



#### Safety

- Lockable handle provides lockout protection for greater safety and complies with OSHA lockout requirements
- Heavy-duty interlock linkage prevents make and break under load



#### Wiring

- Premolded conduit entry hole is offset to prevent water condensation from falling directly on interior electrical components, while speeding installation by making it easier to pull conductors



#### Installation

- Moveable feet may be used in horizontal or vertical position or may be removed and premarked holes drilled for Type 1 or 3R installations

# Twist-Lock® Devices

## Mechanical Interlock Switched Safety Enclosures



UL Listed, CSA Certified TYPE 4,  
4X and TYPE 12K Enclosure Rating

**IP66**  
SUITABILITY

### Mechanical Interlock Ready for Twist-Lock® Receptacle Addition

This unit is a complete enclosure ready to accept any 20 or 30A Watertight Safety-Shroud Twist-Lock Receptacle.

Description	Ratings	Catalog Number
Mechanical Interlock accommodates 20A or 30A Watertight Safety-Shroud Twist-Lock receptacles.	Amperage and voltage ratings will be determined by the choice of the Watertight Safety-Shroud Twist-Lock selected. Supplied with 3/4" NPT Hub.	<b>HBLMITL</b>

### Accepts the following Watertight Safety-Shroud® Twist-Lock® Receptacles: 20 Amp

Rating	Voltage AC	NEMA Config.	Max. HP Rating*	Receptacle Catalog Number	Use Watertight Safety-Shroud Twist-Lock Plug
2 Pole, 3 Wire	120	L5-20	1	<b>HBL2310SW</b>	<b>HBL2311SW</b>
	208-240	L6-20	2.5	<b>HBL2320SW</b>	<b>HBL2321SW</b>
	277	L7-20	3	<b>HBL2330SW</b>	<b>HBL2331SW</b>
3 Pole, 4 Wire	120/240	L14-20	2.5	<b>HBL2410SW</b>	<b>HBL2411SW</b>
	240 3Ø	L15-20	5 (3@208V)	<b>HBL2420SW</b>	<b>HBL2421SW</b>
	480 3Ø	L16-20	10	<b>HBL2430SW</b>	<b>HBL2431SW</b>
4 Pole, 5 Wire	120/208 3ØY	L21-20	3	<b>HBL2510SW</b>	<b>HBL2511SW</b>

### 30 Amp

2 Pole, 3 Wire	120	L5-30	1	<b>HBL2610SW</b>	<b>HBL2611SW</b>
	208-240	L6-30	3	<b>HBL2620SW</b>	<b>HBL2621SW</b>
	277	L7-30	3	<b>HBL2630SW</b>	<b>HBL2631SW</b>
3 Pole, 4 Wire	120/240	L14-30	3	<b>HBL2710SW</b>	<b>HBL2711SW</b>
	240 3Ø	L15-30	7.5	<b>HBL2720SW</b>	<b>HBL2721SW</b>
	480 3Ø	L16-30	15	<b>HBL2730SW</b>	<b>HBL2731SW</b>
4 Pole, 5 Wire	120/208 3ØY	L21-30	7.5	<b>HBL2810SW</b>	<b>HBL2811SW</b>
	277/480	L22-30	7.5	<b>HBL2820SW</b>	<b>HBL2821SW</b>
	347/600	L23-30	7.5	<b>HBL2830SW</b>	<b>HBL2831SW</b>

### 30 Amp Reverse Service

2 Pole, 3 Wire	120	L5-30	1	<b>HBL2615SWR</b>	<b>HBL2613SR</b>
3 Pole, 4 Wire	120/240	L14-30	3	<b>HBL2715SWR</b>	<b>HBL2713SR</b>
3 Pole, 4 Wire	240 3Ø	L15-30	7.5	<b>HBL2725SWR</b>	<b>HBL2723SR</b>

### Auxiliary Contacts

Description	Ratings	Catalog Number
Auxiliary contact.	"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	<b>HBLAC1</b>
Auxiliary contact.	"Break Before Main Break", 1 set of n/o contacts.	<b>HBLAC2</b>

### Replacement Parts

Description	Catalog Number
Ground block.	<b>HBL30RGB</b>
Neutral block.	<b>HBL30RNB</b>
Replacement switch.	<b>HBLDS3RS</b>

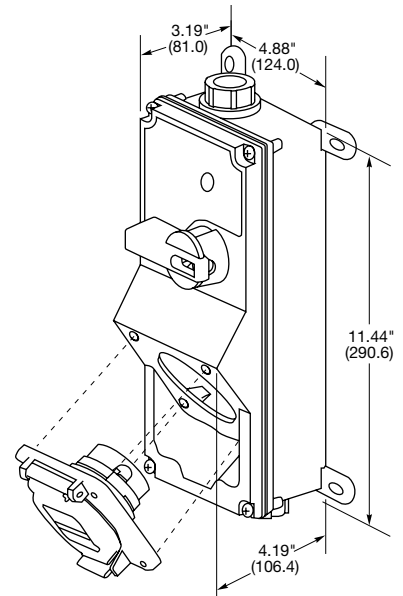
### Replacement Mounting Feet

Description	Catalog Number
For 30A switches.	<b>HBLRFT1<sup>Δ</sup></b>

Note: \*HP ratings for the final unit are determined by the HP rating of the switch, limited by the full load current capability of the receptacle at 80% of rated current, number of phases and line voltage. HP ratings listed above are AC only.

<sup>Δ</sup>Package of 10 feet and 10 screws.

See page B-73 for technical information on Mechanical Interlock Enclosures.



**HBLMITL**



**HBL2620SW**



**HBL2713SR**



**HBLAC1**



**HBLAC2**



**HBL30RGB**



**HBL30RNB**



**HBLRFT1**

Dimensions in Inches (mm)

# Twist-Lock® Devices

## ADD-A-SHROUD® and Adapters

### Safety-Shroud® Twist-Lock® – 20 and 30 Amp

The Add-A-Shroud® devices allow conversion of existing 20A and 30A 3 to 5 wire Hubbell Insulgrip® Twist-Lock devices to a Safety-Shroud Twist-Lock plug. These devices provide a convenient and cost-effective way to convert existing Hubbell Insulgrip Twist-Lock plugs to Safety-Shroud Twist-Lock plugs. The Safety-Shroud Twist-Lock plug permits engagement with the Hubbell Mechanical Interlock Enclosure which virtually prevents make and break under load.

### Add-A-Shroud® Catalog Number HBLSS3

For conversion of all 3 wire Hubbell Insulgrip Twist-Lock Devices.

Rating	Voltage AC	NEMA Config. Reference Number	Plug Catalog Number	Add-A-Shroud Catalog Number
20A, 2 Pole 3 Wire Grounding	125V	L5-20	<b>HBL2311</b>	<b>HBLSS3</b>
	250V	L6-20	<b>HBL2321</b>	<b>HBLSS3</b>
	277V AC	L7-20	<b>HBL2331</b>	<b>HBLSS3</b>
	480V AC	L8-20	<b>HBL2341</b>	<b>HBLSS3</b>
	600V AC	L9-20	<b>HBL2351</b>	<b>HBLSS3</b>
30A, 2 Pole 3 Wire Grounding	125V	L5-30	<b>HBL2611</b>	<b>HBLSS3</b>
	250V	L6-30	<b>HBL2621</b>	<b>HBLSS3</b>
	277V AC	L7-30	<b>HBL2631</b>	<b>HBLSS3</b>
	480V AC	L8-30	<b>HBL2641</b>	<b>HBLSS3</b>
	600V AC	L9-30	<b>HBL2651</b>	<b>HBLSS3</b>

### Add-A-Shroud® Catalog Number HBLSS45

For conversion of all 4 and 5 wire Hubbell Insulgrip Twist-Lock Devices.

Rating	Voltage AC	NEMA Config. Reference Number	Plug Catalog Number	Add-A-Shroud Catalog Number
20A, 3 Pole 4 Wire Grounding	125/250V AC	L14-20	<b>HBL2411</b>	<b>HBLSS45</b>
	3Ø250V AC	L15-20	<b>HBL2421</b>	<b>HBLSS45</b>
	3Ø480V AC	L16-20	<b>HBL2431</b>	<b>HBLSS45</b>
30A, 3 Pole 4 Wire Grounding	125/250V AC	L14-30	<b>HBL2711</b>	<b>HBLSS45</b>
	3Ø250V AC	L15-30	<b>HBL2721</b>	<b>HBLSS45</b>
	3Ø480V AC	L16-30	<b>HBL2731</b>	<b>HBLSS45</b>
	3Ø600V AC	L17-30	<b>HBL2741</b>	<b>HBLSS45</b>
20A, 4 Pole 5 Wire Grounding	3ØY 120/208V AC	L21-20	<b>HBL2511</b>	<b>HBLSS45</b>
	3ØY 277/480V AC	L22-20	<b>HBL2521</b>	<b>HBLSS45</b>
	3ØY 347/600V AC	L23-20	<b>HBL2531</b>	<b>HBLSS45</b>
30A, 4 Pole 5 Wire Grounding	3ØY 120/208V AC	L21-30	<b>HBL2811</b>	<b>HBLSS45</b>
	3ØY 277/480V AC	L22-30	<b>HBL2821</b>	<b>HBLSS45</b>
	3ØY 347/600V AC	L23-30	<b>HBL2831</b>	<b>HBLSS45</b>

### Watertight Safety Shroud - Deluxe Cord Grip and Metallic Liquidtight Conduit Fitting Adapters

#### Adapter for Use with ¾" NPT Fittings

Description	Cord Dia.	Catalog Number
3 Wire, Anodized Aluminum	.250" - .750"	<b>WTSS234</b>
3 Wire, Stainless Steel	.250" - .750"	<b>WTSS234SS</b>
4 and 5 Wire, Anodized Aluminum	.250" - .750"	<b>WTSS334</b>
4 and 5 Wire, Stainless Steel	.250" - .750"	<b>WTSS334SS</b>

#### Adapter for Use with 1" NPT Fittings

Description	Cord Dia.	Catalog Number
4 and 5 Wire, Anodized Aluminum	.375" - 1.00"	<b>WTSS310</b>
4 and 5 Wire, Stainless Steel	.375" - 1.00"	<b>WTSS310SS</b>

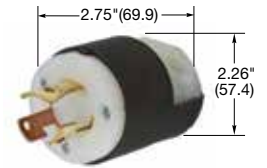
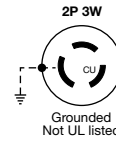


# Twist-Lock® Devices

## Non-NEMA 10 Amp, 250 Volts, 15 Amp 125 Volts 3 Pole, 3 Wire, Non-Grounding and 2 Pole, 3 Wire, Grounding

For Replacement Use Only

**IP20**  
SUITABILITY



**HBL7567C**

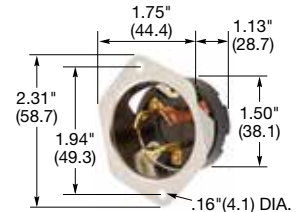
### Plugs

Description	Cord Dia.	Catalog Number	
Black and white nylon. Multiple drive screws.	230"-.720" (5.8-18.3)	<b>HBL7567C</b>	-
Yellow and white nylon. Multiple drive screws.	230"-.720" (5.8-18.3)	<b>HBL7567CY</b>	-

Note: See page B-51 for accessories.

### Flanged Inlets

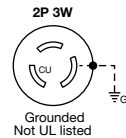
Description	Catalog Number	
Stainless steel casing.	<b>HBL7556</b>	<b>HBL7556G</b>



**HBL7556**

For Replacement Use Only

**IP20**  
SUITABILITY

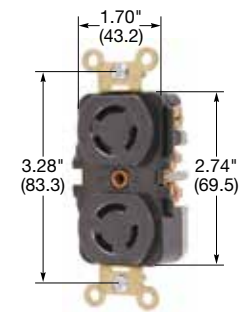


**HBL7565C**

### Connector Bodies

Description	Cord Dia.	Catalog Number	
Insulgrip connector, black and white nylon. Multiple drive screws.	230"-.720" (5.8-18.3)	<b>HBL7565C</b>	-
Insulgrip connector, yellow and white nylon. Multiple drive screws.	230"-.720" (5.8-18.3)	<b>HBL7565CY</b>	-
Black phenolic.	.296"-.625" (7.5-15.9)	<b>HBL7555</b>	<b>HBL7555G</b>

Note: See page B-51 for accessories.



**HBL7580**

### Receptacles

Description	Catalog Number	
Duplex, black RTP*, back and side wired.	<b>HBL7580</b>	<b>HBL7580G</b>
Single, black phenolic, back and side wired.	<b>HBL7582</b>	<b>HBL7582G</b>

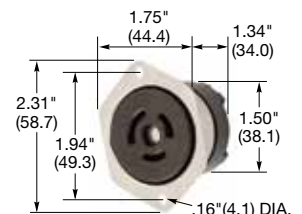
Note: See page B-50 for accessories.

### Flanged Receptacles

Description	Catalog Number	
Stainless steel casing.	<b>HBL7557</b>	<b>HBL7557G</b>

Note: \*RTP is an abbreviation for reinforced thermoplastic.

The devices shown on this page are not listed by Underwriters Laboratories Inc. and are for replacement use only in existing installations.



**HBL7557**

**CAUTION: To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.**

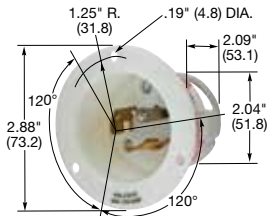
Dimensions in Inches (mm)

# Twist-Lock® Devices

**Non-NEMA 20 Amp, 250, 125/250 Volts and 3ØY 120/208 Volts AC  
2 Pole, 3 Wire, Grounding and  
3 Pole, 3 Wire, Non-Grounding**



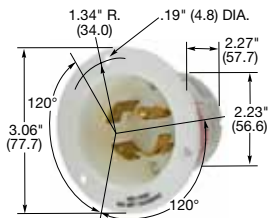
**HBL9965C**



**HBL3325C**



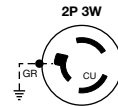
**HBL7411C**



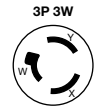
**HBL7408C**

For Replacement Use Only

**IP20**  
SUITABILITY



**20A 250V**  
Non-NEMA  
Not UL Listed



**20A 125/250V**  
Non-NEMA  
Not UL Listed

## Plugs

Description	Cord Dia.	Catalog Number	
Black and white nylon.	.360"-.930" (9-24)	<b>HBL9965GCB</b>	<b>HBL9965C</b>
Corrosion resistant, yellow nylon.	.360"-.930" (9-24)	-	<b>HBL99CM65C</b>

Note: See page B-52 for accessories.

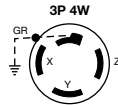
## Flanged Inlets

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL3325C</b>

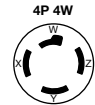
Note: See page B-52 for accessories.

For Replacement Use Only

**IP20**  
SUITABILITY



**20A 3Ø 250V AC**  
Non-NEMA  
Not UL Listed



**20A 3Ø Y**  
**120/208V AC**  
Non-NEMA  
Not UL Listed

## Plugs

Description	Cord Dia.	Catalog Number	
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL7411GCB</b>	<b>HBL7411C</b>

Note: See page B-52 for accessories.

## Flanged Inlets

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL7408C</b>

Note: See page B-52 for accessories.

The devices shown on this page are not listed by Underwriters Laboratories Inc. and are for replacement use only in existing installations.

Dimensions in Inches (mm)

**CAUTION: To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.**

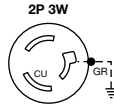


# Twist-Lock® Devices

## Non-NEMA 20 Amp, 250, 125/250 Volts and 3ØY 120/208 Volts AC 2 Pole, 3 Wire, Grounding and 3 Pole, 3 Wire, Non-Grounding

For Replacement Use Only

**IP20**  
SUITABILITY



**20A 250V**  
Non-NEMA  
Not UL Listed



**20A 125/250V**  
Non-NEMA  
Not UL Listed

### Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon.	.360"-.930" (9-24)	<b>HBL7314GCB</b> <b>HBL7314C</b>
Corrosion resistant, yellow nylon.	.360"-.930" (9-24)	- <b>HBL73CM14C</b>

Note: See page B-52 for accessories.

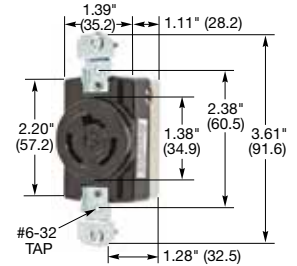


**HBL7314C**

### Single Flush Receptacles

Description	Catalog Number
Black nylon face, back wired.	<b>HBL7310BG</b> <b>HBL7310B</b>

Note: See page B-52 for accessories.

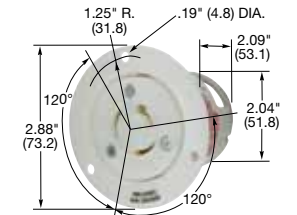


**HBL7310B**

### Flanged Receptacles

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL3326C</b>

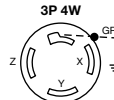
Note: See page B-52 for accessories.



**HBL3326C**

For Replacement Use Only

**IP20**  
SUITABILITY



**20A 3Ø 250V AC**  
Non-NEMA  
Not UL Listed



**20A 3Ø Y**  
**120/208V AC**  
Non-NEMA  
Not UL Listed

### Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL7413GCB</b> <b>HBL7413C</b>

Note: See page B-52 for accessories.

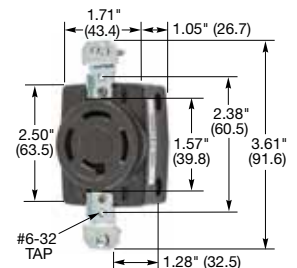


**HBL7413GCB**

### Single Flush Receptacles

Description	Catalog Number
Black thermoset, back wired.	<b>HBL7410BG</b> <b>HBL7410B</b>
Mounted on a 4" (101.6) round metal cover.	- <b>HBL7417B</b>

Note: See page B-52 for accessories.



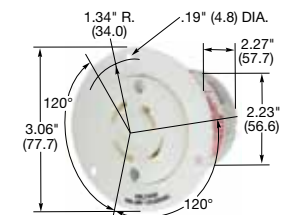
**HBL7410BG**

### Flanged Receptacles

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL7409C</b>

Note: See page B-52 for accessories.

The devices shown on this page are not listed by Underwriters Laboratories Inc. and are for replacement use only in existing installations.



**HBL7409C**

**CAUTION: To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.**

Dimensions in Inches (mm)

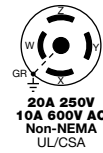
## Non-NEMA 20 Amp, 250 Volts, 10 Amp, 600 Volts AC 4 Pole, 5 Wire, Grounding



**HBL3521C**

For Replacement Use Only

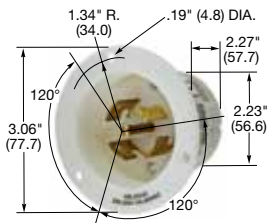
**IP20**  
SUITABILITY



### Plugs

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL3521C</b>

Note: See page B-52 for accessories.



**HBL3524C**

### Flanged Inlets

Description	Catalog Number
Insulgrip nylon casing, back wired.	<b>HBL3524C</b>

Note: See page B-52 for accessories.



**HBL3523C**

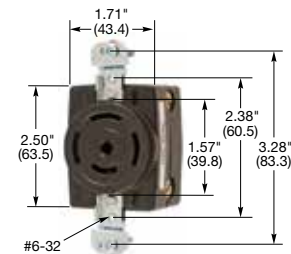
**IP20**  
SUITABILITY



### Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL3523C</b>

Note: See page B-52 for accessories.

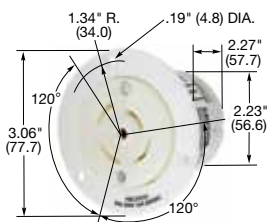


**HBL3520**

### Single Flush Receptacles

Description	Catalog Number
Black thermoset, back wired.	<b>HBL3520</b>

Note: See page B-52 for accessories.



**HBL3525C**

### Flanged Receptacles

Description	Catalog Number
Insulgrip nylon casing, back wired.	<b>HBL3525C</b>

Note: See page B-52 for accessories.

Dimensions in Inches (mm)

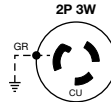
**CAUTION: To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.**

# Twist-Lock® Devices

## Non-NEMA 30 Amp, 250, 125/250 Volts and 3ØY 120/208 Volts AC 2 Pole, 3 Wire, Grounding and 3 Pole, 3 Wire, Non-Grounding

For Replacement Use Only

**IP20**  
SUITABILITY



**HBL3331GC**

### Insulgrip® Plugs

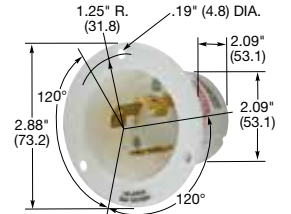
Description	Cord Dia.	Catalog Number
Black and white nylon.	.360"-.930" (9-24)	<b>HBL3331GC</b> <b>HBL3331C</b>

Note: See page B-52 for accessories.

### Insulgrip® Flanged Inlets

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL3334C</b>

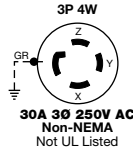
Note: See page B-52 for accessories.



**HBL3334C**

For Replacement Use Only

**IP20**  
SUITABILITY



**HBL3431C**

### Insulgrip® Plugs

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL3431GCB</b> <b>HBL3431C</b>

Note: See page B-52 for accessories.

The devices shown on this page are not listed by Underwriters Laboratories Inc. and are for replacement use only in existing installations.

**CAUTION:** To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.

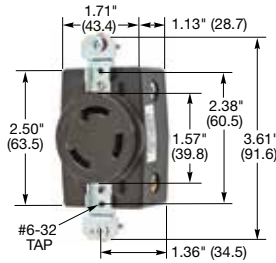
Dimensions in Inches (mm)

# Twist-Lock® Devices

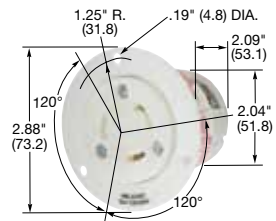
**Non-NEMA 30 Amp, 250, 125/250 Volts and 3ØY 120/208 Volts AC  
2 Pole, 3 Wire, Grounding and  
3 Pole, 3 Wire, Non-Grounding**



**HBL3333GC**



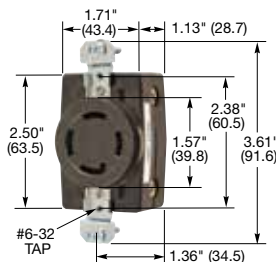
**HBL3330G**



**HBL3335C**



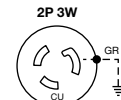
**HBL3433C**



**HBL3430**

For Replacement Use Only

**IP20**  
SUITABILITY



**30A 250V**  
Non-NEMA  
Not UL listed



**30A 125/250V**  
Non-NEMA  
Not UL Listed

## Insulgrip® Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon.	.360"-.930" (9-24)	<b>HBL3333GC</b> <b>HBL3333C</b>

Note: See page B-52 for accessories.

## Single Flush Receptacles

Description	Catalog Number
Black thermoset, back wired.	<b>HBL3330G</b> <b>HBL3330</b>

Note: See page B-52 for accessories.

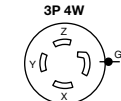
## Insulgrip® Flanged Receptacles

Description	Catalog Number
Nylon casing, back wired.	- <b>HBL3335C</b>

Note: See page B-52 for accessories.

For Replacement Use Only

**IP20**  
SUITABILITY



**30A 3Ø 250V AC**  
Non-NEMA  
Not UL Listed



**30A 3Ø Y**  
**120/208V AC**  
Non-NEMA  
Not UL Listed

## Insulgrip® Connector Bodies

Description	Cord Dia.	Catalog Number
Black and white nylon.	.350"-1.150" (9-29)	<b>HBL3433GCB</b> <b>HBL3433C</b>

Note: See page B-52 for accessories.

## Single Flush Receptacles

Description	Catalog Number
Black thermoset, back wired.	<b>HBL3430G</b> <b>HBL3430</b>

Note: See page B-52 for accessories.

## Insulgrip® Flanged Receptacles

Description	Catalog Number
Nylon casing, back wired.	<b>HBL3435CM2</b> -

Note: See page B-52 for accessories.

The devices shown on this page are not listed by Underwriters Laboratories Inc. and are for replacement use only in existing installations.

**CAUTION: To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.**

Dimensions in Inches (mm)

**Non-NEMA 30 Amp, 250 Volts DC Max. and 600 Volts AC Max. 50 - 400Hz**  
**Non-NEMA 20 Amp, 3ØY 120/208 Volts AC 400Hz**

## Variload® Twist-Lock® Devices

In many large plants and laboratories the number of circuits of different ratings and frequency is greater than the number of blade configurations available in conventional wiring devices.

Prior to NEMA configuration standardization the solution was “Variload® Twist-Lock®” devices with four non-interchangeable center pin and slot configurations that can be assigned within the same premises to circuits of same voltage, frequency and supply (AC or DC), in accordance with NEC® 406.4(F) and 406.8 and with CE Code, Part I, Rule 26-700(3).

### 30A, 250V DC Max. and 600V AC Max. 50 - 400Hz

Center Pin Configuration	Plugs	Flanged Inlets	Connector Bodies	Receptacles
	<b>HBL45115</b>	–	<b>HBL45135</b>	<b>HBL45105</b>
	<b>HBL45215</b>	–	<b>HBL45235</b>	<b>HBL45205</b>
	<b>HBL45315</b>	–	<b>HBL45335</b>	<b>HBL45305</b>

### 20A 3ØY, 120/208V AC Only, 400Hz

Center Pin Configuration	Plugs	Flanged Inlets	Connector Bodies	Receptacles
	<b>HBL45915†</b>	<b>HBL45985CL†</b>	<b>HBL45935†</b>	<b>HBL45905†</b>

Note: †UL Listed only.

## Receptacle Wallplates

Description	Catalog Number
Single Receptacle with Face Dia. 1.74" (44.2)	
Stainless steel 302/304, .035 in. (0.9), horizontal brushed finish.	<b>SS725</b>

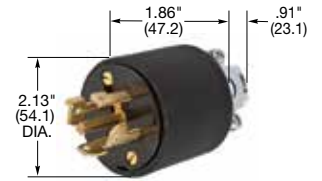
**IP55\***  
SUITABILITY

## Weatherproof Boots

Description	Catalog Number
Seal-Tite® black elastomer for Variload® plugs.	<b>HBL6027**</b>
Seal-Tite® black elastomer for Variload® connector bodies.	<b>HBL6028**</b>

Note: \*When installed and used properly with plug and connector body combinations.

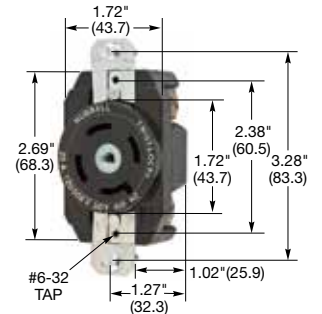
\*\* Weatherproof boots not UL Listed, nor CSA Certified.



**HBL45315**



**HBL45335**



**HBL45305**



**SS725**



**HBL6027**



**HBL6028**

**CAUTION: To avoid electrical shock, review premises carefully and do not use if slot or blade configuration (design) is already in a circuit having a rating differing from the rating of this device.**

Dimensions in Inches (mm)



## Accessories for 15 Amp 2 and 3 Wire Devices



SS8

SS7



HBL5206WO



HBL5221



HBL7423WO



WP1

### Wallplates, 1-Gang

Description	Color	Duplex Receptacles	Single Receptacles with Face Dia. 1.40" (35.6)
Nylon, smooth.	Brown Ivory	<b>NP8</b> <b>NP8I</b>	<b>NP7</b> <b>NP7I</b>
Stainless steel 302/304, .035 in. (0.9), horizontal brushed finish.		<b>SS8</b>	<b>SS7</b>
Stainless steel 430, .035 in. (0.9), horizontal brushed finish.		<b>SS8L</b>	<b>SS7L</b>
Brass .04 in. (1.0), horizontal brushed finish.		<b>SB8</b>	<b>SB7</b>
Aluminum .05 in. (1.3), horizontal brushed finish.		<b>SA8</b>	<b>SA7</b>

**IP44**  
SUITABILITY

### Weatherproof Covers

Description	Duplex Receptacles	Single Receptacles with Face Dia. 1.40" (35.6)
Cast aluminum, for standard horizontal box mount.	<b>HBL5205WO</b>	-
Same as above except FS/FD box mount.	<b>HBL5206WO</b>	-
Cast aluminum vertical FS/FD box mount.	-	<b>HBL7420</b>
Gray thermoplastic, vertical standard box mount, corrosion resistant.	<b>HBL5222</b>	-
Same as above except yellow.	<b>HBL52CM22</b>	-
Gray thermoplastic, vertical FS/FD box mount, corrosion resistant.	<b>HBL5221</b>	<b>HBL7423WO</b>
Yellow thermoplastic, vertical FS/FD box mount, corrosion resistant.	<b>HBL52CM21</b>	<b>HBL74CM23WO</b>
White thermoplastic, vertical FS/FD box mount, corrosion resistant.	<b>HBL52CM21W</b>	-

**IP44**  
SUITABILITY

### Weatherproof Covers for 15A Nylon Flanged Receptacles and Inlets

Description	Duplex Receptacles	Single Receptacles with Face Dia. 1.40" (35.6)
Gray thermoplastic, corrosion resistant.	-	<b>WP1</b>

*Note: All weatherproof covers listed above are UL Listed for wet and damp locations with cover closed. Those with suffix WO are UL Listed with cover open. See page N-23 for additional information on covers.*

# Twist-Lock® Devices

## Accessories for 15 Amp 2 and 3 Wire Devices

- Tinted lid is aesthetically pleasing in any location. High-impact, polycarbonate while-in-use cover will not rust or corrode; cover is NEMA 3R rated

- Compact 2-gang design



**HBLPKL520**

- Locking receptacle prevents unintentional disconnection of mating pump plug

### Pool Kit Contains:

- Heavy duty, industrial grade locking receptacle NEMA L5-20, 20A 125V
- Single-pole switch (20A, 120-277V AC)
- Two gang, 2 inch deep die-cast aluminum weatherproof box with (4) 3/4 inch threaded outlets
- Two gang, weatherproof while-in-use cover
- Includes mounting hardware, gasket, wire connector and (3) closure plugs
- Complete assembly instructions

### Pool Pump Kit

Description	Catalog Number
Pool pump receptacle kit.	<b>HBLPKL520</b>



**HBL6023**



**HBL6024**



**HBL7529A**

### Weatherproof, Seal-Tite®, Triple Seal Boots for 15A Insulgrip® Devices

**IP55\***  
SUITABILITY

Description	Catalog Number
Black elastomer boot for plugs when used in a cord set and connector bodies when used with a flange inlet.	<b>HBL6023</b>
Same as above except yellow elastomer.	<b>HBL60CM23</b>
Black elastomer boot for connector bodies when used in cord sets.	<b>HBL6024</b>
Same as above except yellow elastomer.	<b>HBL60CM24</b>

Note: \*When installed and used properly with plug and connector body combinations.

### Closure Cover

Description	Catalog Number
For use with 3 wire 15A Twist-Lock flush or flanged receptacles.	<b>HBL7529A</b>

### PLUGOUT® Lockout Devices

Description	Catalog Number
Lockout device for 15A and 20A straight blade plugs.	<b>HLDMP</b>
Lockout device for attachable 20 and 30A plugs, straight body or angle types, with or without weatherproof covers.	<b>HLD</b>

Note: See section Z for additional information on PLUGOUT Lockout devices.



**HLDMP**

Dimensions in Inches (mm)

## Accessories for 20 and 30 Amp 3, 4 and 5 Wire Devices



NP720BK

SS720

### Wallplates, 1-Gang

Description	Color	Single Receptacles with Face Dia. 1.60" (40.6)
Nylon, smooth.	Black	<b>NP720BK</b>
Stainless steel 302/304, .035 in. (0.9), horizontal brushed finish.		<b>SS720</b>
Brass .04 in. (1.0), horizontal brushed finish.		<b>SB720</b>

**IP44**  
SUITABILITY

### Weatherproof Covers

Description	Single Receptacles with Face Dia. 1.60" (40.6)
Cast aluminum, for FS/FD box mounting.	<b>HBL7420</b>
Gray thermoplastic, for FS/FD box mounting, corrosion resistant.	<b>HBL7425WOA</b>
Same as above except yellow.	<b>HBL74CM25WOA</b>



HBL7425WOA

### Weatherproof Covers for Flanged Inlets and Flanged Receptacles

**IP44**  
SUITABILITY

Description	Single Receptacles with Face Dia. 1.60" (40.6)
Gray thermoplastic, corrosion resistant.	<b>WP2</b>

Note: Weatherproof covers are UL Listed for wet and damp location with cover closed. Those with suffix WOA are UL Listed with cover open. See page N-23 for additional information on covers.



HBL2899

### Closure Cover for 3 Wire Flanged Inlets

Description	Catalog Number
Rubber closure plug.	<b>HBL2899</b>

Note: Closure cover not UL Listed, CSA Certified.



### Twist-Lock® Circuit Testers

Description	Rating	20 Amp		30 Amp	
		Configuration	Catalog Number	Configuration	Catalog Number
3-Phase Circuit Tester	3Ø 120/208V AC Min. Volt.: 90V AC	NEMA L21-20P 	<b>HBL3PT2511</b>	NEMA L21-30P 	<b>HBL3PT2811</b>
Circuit Tester	125V	NEMA L5-20P 	<b>HBLT2311</b>	NEMA L5-30P 	<b>HBLT2611</b> <b>HBLT26CM11</b> (Marine)
	250V	NEMA L6-20P 	<b>HBLT2321</b>	NEMA L6-30P 	<b>HBLT2621</b>
Circuit Tester	277V	NEMA L7-20P 	<b>HBLT2331</b>		
	125/250V	NEMA L14-20P 	<b>HBLT2411</b>	NEMA L14-30P 	<b>HBLT2711</b>
	347V	NEMA L24-20P 	<b>HBLT3721</b>		



HBL3PT2511



HBLT26CM11

Dimensions in Inches (mm)

Note: Testers in other NEMA configurations can be developed upon request.

# Twist-Lock® Devices

## Accessories for 20 and 30 Amp 3, 4 and 5 Wire Devices

### Insulgrip® Plug and Connector Body Latching Kit

The Hubbell latching kit provides both improved safety and security through a double locking feature that makes unintentional disconnection virtually impossible – even under high vibration situations. The plug and connector body lock once when first connected, then again when you push the special position locking slide into place.

### Insulgrip® Latching Kit

Description	For 3 Wire Devices	For 4 & 5 Wire Devices
For all 20A and 30A Twist-Lock Insulgrip plugs and connectors.	<b>SK2</b>	<b>SK3</b>



SK2

### Valise®

**IP55\***  
SUITABILITY

### Weatherproof, Seal-Tite®, Triple Seal Boots

Description	For 3 Wire Devices	For 4 & 5 Wire Devices
Yellow Seal-Tite® elastomer triple seal cover for use with Valise plugs when used in cord set and Valise connector bodies when used with flanged inlet.	<b>HBL60CM31V</b>	–
Yellow Seal-Tite® elastomer triple seal cover for use with Valise connector bodies.	<b>HBL60CM32V</b>	–



HBL60CM31V



HBL6032

Note: \*When installed and used properly with plug and connector body combinations.

### Insulgrip®

**IP55\***  
SUITABILITY

### Weatherproof, Seal-Tite®, Triple Seal Boots

Description	For 3 Wire Devices	For 4 & 5 Wire Devices
Black elastomer boot for plugs when used in a cord set and connector bodies when used in flanged inlets.	<b>HBL6031</b>	<b>HBL6035</b>
Same as above except yellow.	<b>HBL60CM31</b>	<b>HBL60CM35</b>
Black elastomer boot for connector bodies when used in a cord set.	<b>HBL6032</b>	<b>HBL6036</b>
Same as above except yellow.	<b>HBL60CM32</b>	<b>HBL60CM36</b>



HBL3WAA

### Angle Adapter

Description	For 3 Wire Devices	For 4 & 5 Wire Devices
Nylon, angle adapter for Insulgrip plugs and connector bodies, cord grip range .325"-.930" (8.3-24).	<b>HBL3WAA</b>	<b>HBL45WAA</b>

### PLUGOUT® Lockout Devices

Description	For 3 Wire Devices	For 4 & 5 Wire Devices
Lockout device for attachable 20 and 30A locking plugs, straight body or angle types, with or without weatherproof covers.	<b>HLD</b>	<b>HLD</b>
Lockout device for 20 and 30A 3 wire angle plugs and watertight Safety-Shroud® Twist-Lock® plugs.	<b>HLD2</b>	<b>HLD2</b>



HLD

Note: See section Z for additional information on PLUGOUT Lockout devices.  
\*When installed and used properly with plug and connector body combinations.

For quick visual identification of circuits or configurations.

### Colored Cord Clamps\*

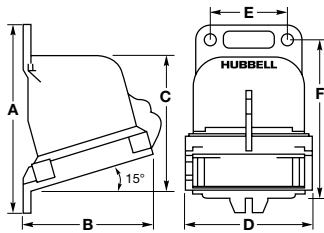
Description	Color	For 3 Wire Devices	For 4 & 5 Wire Devices
For use with 20A and 30A Insulgrip® Twist-Lock® Plugs and Connectors. Cord diameter: 3 wire .350"-.930" (9-24), 4 & 5 wire .350" – 1.150" (9-29)	Blue	<b>HBLTL2CCBL</b>	<b>HBLTL3CCBL</b>
	Brown	<b>HBLTL2CCBR</b>	<b>HBLTL3CCBR</b>
	Green	<b>HBLTL2CCGR</b>	<b>HBLTL3CCGR</b>
	Orange	–	<b>HBLTL3CCOR</b>



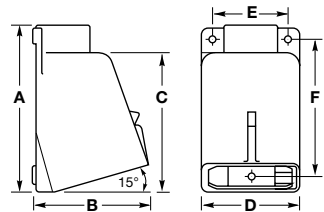
Dimensions in Inches (mm)

# Twist-Lock® Devices

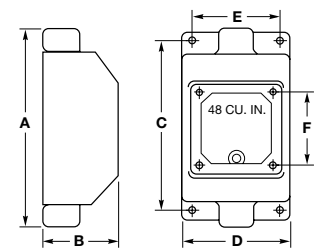
## Safety-Shroud® Twist-Lock® Accessories



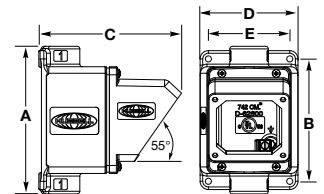
**Non-Metallic Angle Box**



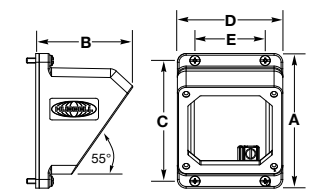
**Metallic Angle Box**



**Metallic Feed Thru Box**



**AB203055**



**AA203055**



**HBL2030AP**



**AA2030PS**

Dimensions in Inches (mm)

### 15° Angle Non-Metallic Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	1"	5.67" (144.0)	4.44" (112.8)	4.05" (102.9)	3.91" (99.3)	2.35" (59.7)	4.92" (125.0)	30.00"	<b>BB2030N</b>

Note: Hub is not included; order Racco part number 1704. This box meets IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.

### 15° Angle Metallic Back Boxes

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	¾"	5.13" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	<b>BB201W</b>
	1"	5.13" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	<b>BB301W</b>

### Metallic Feed Thru Back Boxes

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	¾"	8.25" (209.6)	3.06" (77.8)	7.14" (181.4)	4.50" (114.3)	3.75" (95.3)	3.13" (79.5)	48.00"	<b>FT202W</b>
	1"	8.25" (209.6)	3.06" (77.8)	7.14" (181.4)	4.50" (114.3)	3.75" (95.3)	3.13" (79.5)	48.00"	<b>FT302W</b>

Note: These boxes are cast aluminum and are finished with enamel paint. These boxes withstand a 500-hour salt spray test as well as UL raintight and external icing tests. NPT (metric designator).

### 55° Angle Metallic Adapter and Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	1"	6.80" (172.4)	5.63" (142.9)	6.60" (167.0)	4.50" (114.3)	3.74" (95.0)	-	45.27"	<b>AB203055</b>

### 55° Angle Metallic Adapter with Grounding Lug

Description	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	4.89" (124.7)	3.33" (84.6)	4.29" (109.0)	3.75" (95.3)	2.50" (63.5)	-	25.00"	<b>AA203055</b>

### Straight Watertight Wall Box Adapter

Description	Catalog Number
Adapts 20A and 30A Watertight Safety-Shroud Twist-Lock receptacles and inlets to 2-gang, device mount, FD boxes.	<b>HBL2030AP</b>

### Non-Watertight Angle Wall Box Adapter

Description	Catalog Number
Adapts 20A and 30A Watertight Safety-Shroud Twist-Lock receptacles to 1- or 2-gang standard wall boxes (4" or 4 1/16" square).	<b>AA2030PS</b>



# Twist-Lock® Devices

## Features and Benefits

### 50 Amp Plugs and Connector Bodies

Hubbell's 50 amp Twist-Lock® devices feature a heavy-duty design built for heavy-duty applications. These Hubbell 50 amp Twist-Lock plugs and connector bodies are built to go where you need power, even in some of the harshest environments.

On the outside, 50 amp plugs and connectors are made of super tough nylon for better impact resistance. On the plug, the stainless steel shroud not only provides protection and durability, but safety as well. That's because the rigid construction restricts distortion, thus minimizing the possibility of mating incorrect devices.

On the inside are the kinds of features that separate Hubbell from all the rest. The cord grip has been designed with offset gripping jaws to securely hold the conductors – not just the cord jacket. Hubbell's box terminals speed wiring and provide a superior termination. The plug's thermoplastic polyester interior provides excellent heat resistance without compromising strength.

In all, it's the combination of function and performance that Hubbell demands of all its products. That is why we will never add a feature that compromises performance.



CS6361C

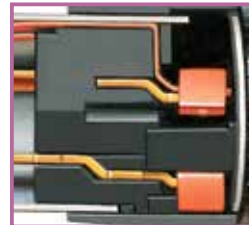


CS6360C



#### Housing Design

- Housing assembly latch slotted to fit standard flat-blade screwdriver providing secure assembly and fast disassembly for wiring
- Super tough nylon housing offers better impact qualities



#### Internal Design

- Thermoplastic polyester interior provides heat resistance and impact strength
- 6/6 nylon nose – thermoplastic polyester terminal cover provides heat resistance in terminal area and impact strength of nose piece



#### Safety

- Padlock capable shroud allows compliance to OSHA lockout tagout regulation 29 CFR 1910.147
- Stainless steel shroud restricts mismatching with the wrong device



#### Terminals

- Box terminal with hex socket threaded slug is superior because it permits high clamping pressure on conductors without damaging strands



#### Installation

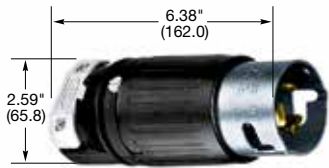
- Three-piece thermoplastic clamp assembly with stainless steel fast lead screws provides a more consistent, durable grip. Sealed cable entry keeps out moisture and dust



#### Contacts

- One-piece grounding contact on 4-wire devices provides a more reliable grounding system for a safer device

## 50 Amp, 125, 250 Volts and 480 Volts AC



**CS8265C**

**IP20**  
SUITABILITY



**50A 125V**  
UL/CSA



**50A 250V**  
UL/CSA

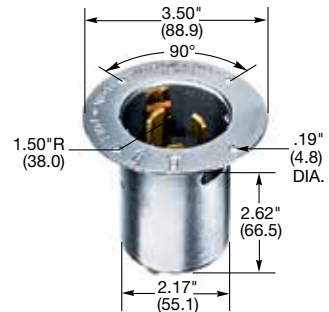


**50A 480V AC**  
UL/CSA

### Plugs

Description	Cord Dia.	Catalog Number
Nylon housing, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>CS6361C</b> <b>CS8265C</b> <b>CS8465C</b>

Note: See page B-60 for accessories.



**CS8275**

### Flanged Inlets

Description	Catalog Number
Zinc plated steel casing, thermoset interior.	<b>CS6377†</b> <b>CS8275</b> <b>CS8475†</b>



**CS8264C**

**IP20**  
SUITABILITY



**50A 125V**  
UL/CSA



**50A 250V**  
UL/CSA

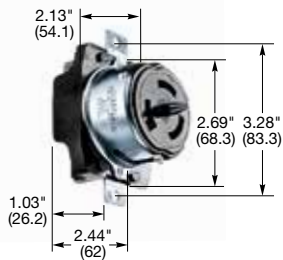


**50A 480V AC**  
UL/CSA

### Connector Bodies

Description	Cord Dia.	Catalog Number
Nylon housing, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>CS6360C</b> <b>CS8264C</b> <b>CS8464C</b>

Note: See page B-60 for accessories.



**CS8269**

### Receptacles

Description	Catalog Number
Black phenolic.	<b>CS6370</b> <b>CS8269</b> <b>CS8469†</b>

Note: See page B-60 for accessories.  
†Not CSA Certified.

Dimensions in Inches (mm)

## 50 Amp, 125/250, 3Ø 250 Volts and 3Ø 480 Volts AC

**IP20**  
SUITABILITY



**50A  
125/250V AC**  
UL/CSA



**50A  
3Ø 250V AC**  
UL/CSA

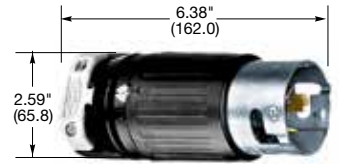


**50A  
3Ø 480V AC**  
UL/CSA

### Plugs

Description	Cord Dia.	Catalog Number		
Nylon cover, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>CS6365C</b>	<b>CS8365C</b>	<b>CS8165C</b>

Note: See page B-60 for accessories.

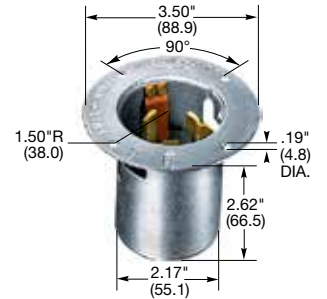


**CS6365C**

### Flanged Inlets

Description	Catalog Number		
Zinc plated steel casing, thermoset interior.	<b>CS6375</b>	<b>CS8375</b>	<b>CS8175</b>
Zinc plated steel casing, thermoset interior with lift cover.	<b>CS6375M2</b>	-	-
Gray Valox® housing and flange.	<b>HBL6375S*</b>	-	-

Note: \*Type 3R, (Not shown).



**CS6375**

**IP20**  
SUITABILITY



**50A  
125/250V AC**  
UL/CSA



**50A  
3Ø 250V AC**  
UL/CSA

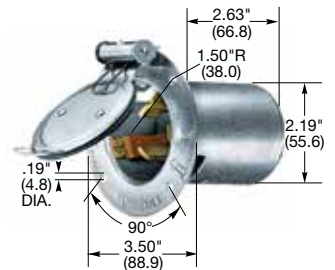


**50A  
3Ø 480V AC**  
UL/CSA

### Connector Bodies

Description	Cord Dia.	Catalog Number		
Nylon cover, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>CS6364C</b>	<b>CS8364C</b>	<b>CS8164C</b>

Note: See page B-60 for accessories.

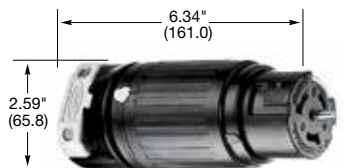


**CS6375M2**

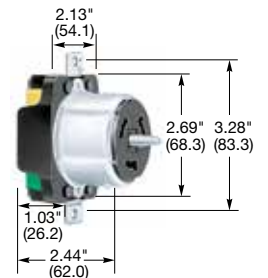
### Receptacles

Description	Catalog Number		
Black phenolic.	<b>CS6369</b>	<b>CS8369</b>	<b>CS8169</b>

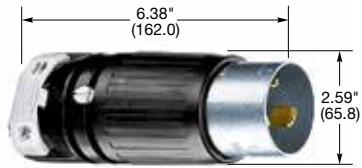
Note: See page B-60 for accessories.



**CS6364C**



**CS6369**



**HBL3763C**

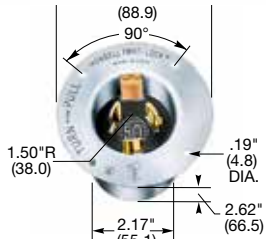
**IP20**  
SUITABILITY



### Plugs

Description	Cord Dia.	
Nylon housing, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>HBL3763C</b>

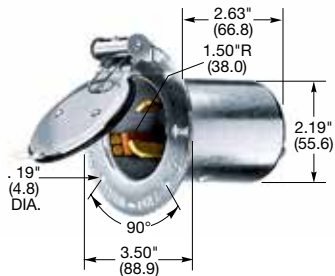
*Note: See page B-60 for accessories.*



**HBL3777**

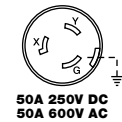
### Flanged Inlets

Description	
Zinc plated steel casing, thermoset interior.	<b>HBL3777</b>
Zinc plated steel casing, thermoset interior with lift cover.	<b>HBL3767</b>



**HBL3767**

**IP20**  
SUITABILITY



### Connector Bodies

Description	Cord Dia.	
Nylon housing, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>HBL3762C</b>

*Note: See page B-60 for accessories.*

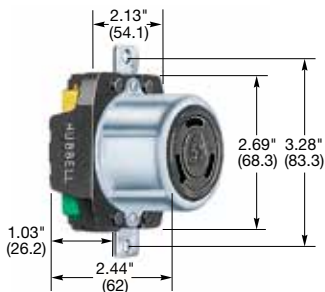


**HBL3762C**

### Receptacles

Description	
Black phenolic.	<b>HBL3771</b>

*Note: See page B-60 for accessories.*



**HBL3771**

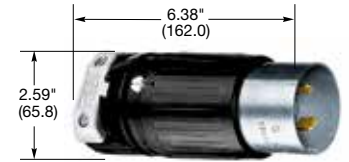
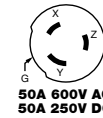
Dimensions in Inches (mm)

## 50 Amp, 250 Volts DC and 600 Volts AC

### Plugs

Description	Cord Dia.	Catalog Number	
Nylon cover, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>HBL3765C</b>	<b>HBL7765C</b>

Note: See page B-60 for accessories.



**HBL3765C**

### Flanged Inlets

Description	Catalog Number	
Zinc plated steel casing, thermoset interior.	<b>HBL3775</b>	<b>HBL7958</b>
Zinc plated steel casing, thermoset interior with lift cover.	<b>HBL3768</b>	<b>HBL7968</b>

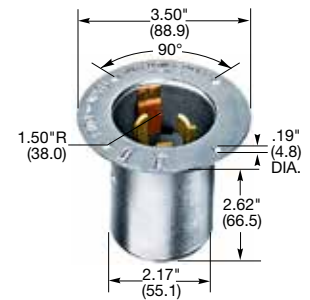


**HBL3768**

### Connector Bodies

Description	Cord Dia.	Catalog Number	
Nylon cover, thermoplastic polyester interior.	.830"-1.250" (21.08-31.75)	<b>HBL3764C</b>	<b>HBL7764C</b>

Note: See page B-60 for accessories.



**HBL3775**

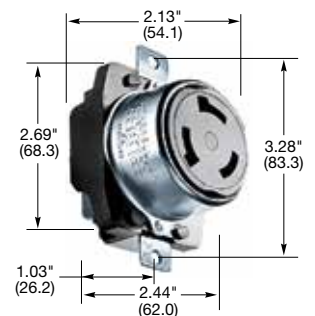
### Receptacles

Description	Catalog Number	
Black phenolic.	<b>HBL3769</b>	<b>HBL7379</b>

Note: See page B-60 for accessories.



**HBL3764C**



**HBL3769**

**Important Note:** Catalog numbers **HBL7765C**, **HBL7958**, **HBL7968**, **HBL7764C**, **HBL7379** are for replacement use only. See other singly rated 50A Twist-Lock® devices in this section. **HBL3700 series Twist-Lock devices do not interchange with any other devices in this section.**

Dimensions in Inches (mm)



## 50 Amp Twist-Lock® Accessories



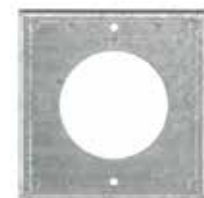
HBL7774WO



HBL7770



HBL7382



HBL50SC



SS750



HBL7716C



HBL7717C



HBL4892



HBLCSCK

**IP44**  
SUITABILITY

### Weatherproof Receptacle Lift Cover Plates for FS/FD Box Mounting

Description	Catalog Number
Corrosion resistant, gray thermoplastic.	<b>HBL7774WO</b>
Same as above except yellow.	<b>HBL77CM74WO</b>
Cast aluminum.	<b>HBL7770</b>

Note: See section N for additional information on weatherproof plates.

### Receptacle Plates for FS/FD Box Mounting

Description	Catalog Number
Cast aluminum with lift cover.	<b>HBL7382**</b>
Same as above less lift cover.	<b>HBL7383*</b>
Stainless steel, single gang, wallplate.	<b>SS750<sup>^</sup></b>

### Receptacle 1/2" Raised Cover

Description	Catalog Number
Galvanized Steel fits 4" square or 2-gang box.	<b>HBL50SC<sup>^</sup></b>

**IP55\*\***  
SUITABILITY

### Weatherproof Boots

Description	Catalog Number
Seal-Tite® triple seal black elastomeric cover for plugs when used in a cord set and connector bodies when used with flanged inlets.	<b>HBL7716C<sup>†</sup></b>
Seal-Tite triple seal black elastomeric cover for connector bodies when used with cord sets.	<b>HBL7717C<sup>†</sup></b>

### Inlet Closure Plug

Description	Catalog Number
Black closure plug.	<b>HBL4892<sup>†</sup></b>

### Replacement Parts

Description	Catalog Number
Cord clamp Kit.	<b>HBLCSCK</b>

Note: •Will only fit non-"CS" type 50A Twist-Lock receptacles.

\*Not UL Listed "WDL Closed".

\*\*When installed and used properly with plug and connector body combinations.

<sup>^</sup>IP20 SUITABILITY.

<sup>†</sup>Not UL Listed.

# Twist-Lock® Devices

## Features and Benefits

### Hubbellock® Plugs and Connector Bodies

The Hubbellock devices feature an exclusive design unlike any other in the industry. The unique design is built to provide the safest heavy-duty device even in some of the harshest environments. These Hubbellock plugs and connector bodies are built with a super tough nylon housing for high impact resistance and a one of kind interior design for superior safety that Hubbell is known for.

The male contacts are molded into the nose for damage resistance and completely annihilate the chance of deformity. Additionally, the plug as well as the connector retains power mechanical cord grips that not only secure the cable but also clamp down on the conductors in order to provide unrivaled strain relief.

Inside the connector is Hubbell's unique safety design. With unparalleled box terminations the connector interior holds a spring-loaded safety shutter to provide the ultimate arc protection. Furthermore the exceptional heat and impact resistance is maintained by the thermoplastic interior contributing to a longer lasting device.

In all, the one of a kind function of the Hubbellock devices provide a safe and dependable performance in the most demanding applications.



HBL21415B



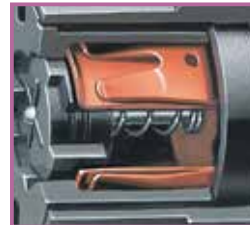
HBL21414B

*Note: The cut-away views below and call-outs are construction elements pertaining specifically to the 30A Hubbellock series. While the Hubbellock contact interface design applies to all, there are construction elements that are different, depending on the amperage.*



#### Housing Design

- Insulated non-metallic housing enhances safety and abuse resistance
- Impact resistance in the interior of the female device comes from a strong thermoplastic material



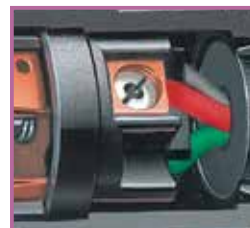
#### Internal Design

- No "lazy" connections because a spring-loaded safety shutter automatically ejects the plug if it hasn't been properly locked into the female device. This eliminates teasing of the contacts, a major cause of contact burn-up
- Arcs are snuffed out, when devices are mated or unmated under load, by spring-loaded safety shutter



#### Safety

- Enhanced safety because access to live female contacts is restricted by the spring-loaded safety shutter



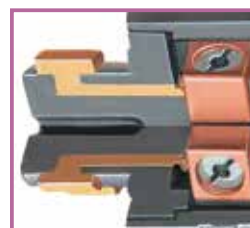
#### Terminals

- Superior wire terminations are assured with box terminals and screws with pressure pads. This design captures stray wire strands and permits more clamping pressure on the wire without damaging it. Loosening of terminations and resulting heat build-up are greatly reduced



#### Installation

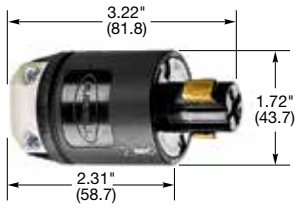
- Three-piece thermoplastic clamp assembly with fast-lead stainless screws provides a more consistent durable grip. Grommets provide a sealed cable entry that protects against the entry of moisture and dust



#### Contacts

- Positive locking is ensured by the nose of the plug being keyed into a detent in female device. This lock is independent of the contacts or a separate mechanical lock
- Longer contact life is assured by supplementary springs. Other devices rely just on contacts themselves to provide proper contact pressure

20 Amp, 125 Volts



**HBL23035B**

**IP30**  
SUITABILITY

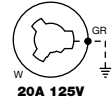


## Plug

Description	Cord Dia.	Catalog Number
Nylon housing, thermoset interior.	.320"-.660" (8.12-16.5)	<b>HBL23035B</b>

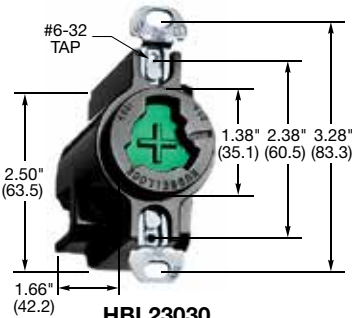


**HBL23032B**



## Connector Body

Description	Cord Dia.	Catalog Number
Nylon housing, thermoset interior.	.320"-.660" (8.12-16.5)	<b>HBL23032B</b>



**HBL23030**



## Receptacle

Description	Catalog Number
Black phenolic, back wired.	<b>HBL23030</b>

*Note: Devices listed above are not interchangeable with any other Hubbell device listed in this catalog.*

## Accessories

### Weatherproof Covers

Description	Catalog Number
Gray polycarbonate for FS/FD box mounting, corrosion resistant. IP44 SUITABILITY.	<b>HBL7423WO</b>
Same as above except yellow.	<b>HBL74CM23WO</b>
Cast aluminum, lift cover for indoor use only.	<b>HBL23007</b>
Stainless steel 302/304, single receptacle wallplate.	<b>SS7</b>
Stainless steel 430, single receptacle wallplate.	<b>SS7L</b>



**HBL7423WO**



**HBL23007**

Dimensions in Inches (mm)

# Twist-Lock® Devices

20 Amp, 125 Volts AC or DC, 10 Amp, 250 Volts DC, 480 Volts AC

## Plug

Description	Cord Dia.	Catalog Number
Nylon housing, thermoset interior.	.320"-.660" (8.12-16.5)	<b>HBL23005GB</b>

**IP30**  
SUITABILITY



**HBL23005GB**

## Connector Body

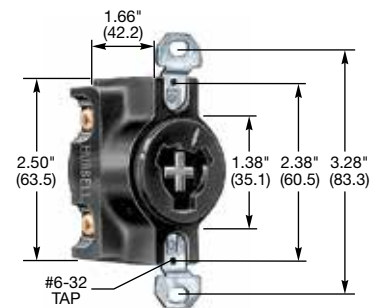
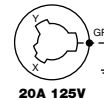
Description	Cord Dia.	Catalog Number
Nylon housing, thermoset interior.	.320"-.660" (8.12-16.5)	<b>HBL23002GB</b>



**HBL23002GB**

## Receptacle

Description	Catalog Number
Black phenolic, back wired.	<b>HBL23000G</b>



**HBL23000G**

## Accessories

### Weatherproof Covers

Description	Catalog Number
Gray polycarbonate for FS/FD box mounting, corrosion resistant. IP44 SUITABILITY.	<b>HBL7423WO</b>
Same as above except yellow.	<b>HBL74CM23WO</b>
Cast aluminum, lift cover for indoor use only.	<b>HBL23007</b>
Stainless steel 302/304, single receptacle wallplate.	<b>SS7</b>
Stainless steel 430, single receptacle wallplate.	<b>SS7L</b>



**HBL7423WO**



**HBL23007**

Dimensions in Inches (mm)

## 30 Amp, 600 and 480 Volts AC, 20 Amp, 250 Volts DC



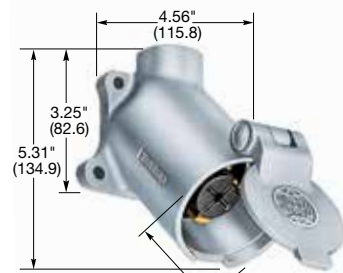
**HBL21415B**



**HBL20445B**

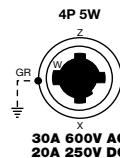
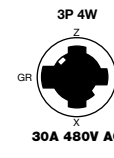
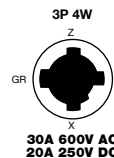


**HBL25415B**



**HBL21447**

**IP30**  
SUITABILITY



### Plugs

Description	Cord Dia.	Catalog Number		
Black nylon housing, thermoplastic interior.	.700"-1.200" (17.78-30.5)	<b>HBL21415B</b>	-	-
Same as above except corrosion resistant.	.700"-1.200" (17.78-30.5)	<b>HBL21CM415B</b>	-	-
Red nylon housing, thermoset interior.	.700"-1.200" (17.78-30.5)	-	<b>HBL20445B<sup>†</sup></b>	-
Black nylon housing, thermoset interior, steel shroud.	.700"-1.200" (17.78-30.5)	-	-	<b>HBL25415B</b>

Note: See page B-68 for accessories.

<sup>†</sup>Not CSA Certified.

### Flanged Inlets

Description	Catalog Number		
Weathertight, corrosion resistant, nickel plated brass plate, for FS/FD box mounting.	<b>HBL22CM428</b>	-	-
Black phenolic interior, aluminum housing, for FS/FD box mounting (not shown).	<b>HBL20418</b>	-	-
Aluminum angle housing, with ¼" NPT hub for surface mounting.	<b>HBL21447</b>	-	-



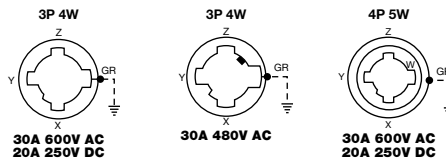
**SEHBL3** - Switched enclosure for use with 3 pole 4 wire 30A Hubbellock receptacle. Receptacle not included. See page B-37 for additional information.

Dimensions in Inches (mm)



30 Amp, 600 and 480 Volts AC, 20 Amp, 250 Volts DC

**IP30**  
SUITABILITY



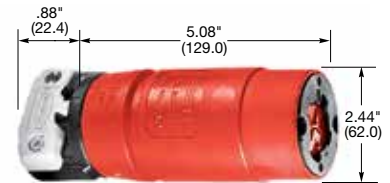
## Connector Bodies

Description	Cord Dia.	Catalog Number		
Black nylon housing, thermoplastic interior.	.700"-1.200" (17.78-30.5)	<b>HBL21414B</b>	-	-
Same as above except corrosion resistant.	.700"-1.200" (17.78-30.5)	<b>HBL21CM414B</b>	-	-
Red nylon housing, thermoset interior.	.700"-1.200" (17.78-30.5)	-	<b>HBL20444B</b>	-
Black nylon housing, thermoplastic interior.	.700"-1.200" (17.78-30.5)	-	-	<b>HBL25414B</b>

Note: See page B-68 for accessories.



**HBL21414B**



**HBL20444B**

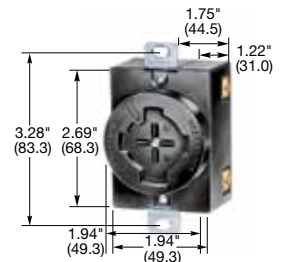
## Receptacles

Description	Catalog Number		
Black phenolic.	<b>HBL20403</b>	-	-
Weathertight, corrosion resistant, nickel plated brass plate, for FS/FD box mounting. IP44 SUITABILITY.	<b>HBL22CM427</b>	-	-
Aluminum angle housing, with 3/4" NPT hub for surface mounting. IP44 SUITABILITY.	<b>HBL21420</b>	-	-
Black phenolic, red center insert.	-	<b>HBL20443</b>	-
Black phenolic interior, aluminum housing, blue finish, for FS/FD box mounting.	-	-	<b>HBL25403</b>
Black phenolic interior, aluminum weatherproof housing, blue finish for FS/FD box mounting. IP44 SUITABILITY.	-	-	<b>HBL25250</b>

Note: See page B-68 for accessories.



**HBL25414B**



**HBL20403**

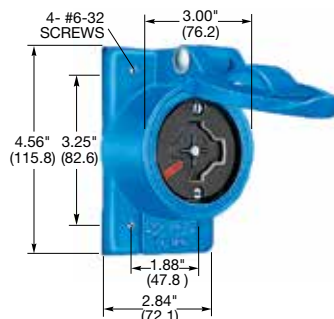
## Receptacle Accessories

Description	Catalog Number
Thermoplastic, wet and damp locations with cover "open", gray.	<b>HBL7428WOG*</b>
Thermoplastic, wet and damp locations with cover "open", yellow.	<b>HBL7428WOY*</b>
Thermoplastic, wet and damp locations with cover "open", red.	<b>HBL7428WOR*</b>
Cast aluminum, wet locations only when cover "closed" and damp locations, lift cover plate.	<b>HBL20405</b>
Cast aluminum, wet locations only when cover "closed" and damp locations, red finish.	<b>HBL20446</b>
302/304 stainless, single gang, smooth. NOT weatherproof.	<b>SS737</b>

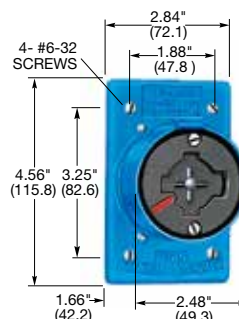
Note: \*Features two #6-32 threaded inserts to back mount device to cover.



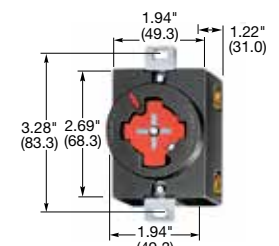
**HBL21420**



**HBL25250**



**HBL25403**



**HBL20443**

Dimensions in Inches (mm)

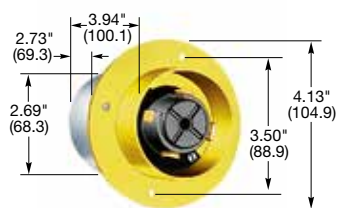
## 60 Amp, 600 Volts AC



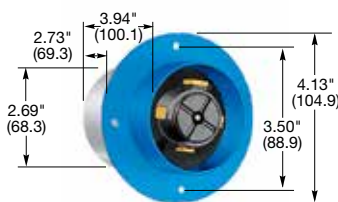
**HBL26419**



**HBL26519**

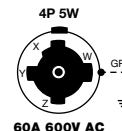
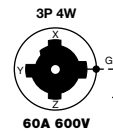


**HBL26422**



**HBL26522**

**IP30**  
SUITABILITY



### Plugs

Description	Cord Dia.	Catalog Number	
Black phenolic interior with yellow thermoplastic sleeve over steel housing.	.920"-1.450" (23.36-36.83)	<b>HBL26419</b>	-
Black phenolic interior with blue thermoplastic sleeve and steel housing.	1.00"-1.50" (25.40-38.10)	-	<b>HBL26519</b>

**IP30**  
SUITABILITY

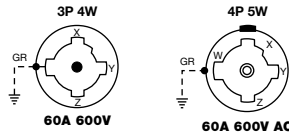
### Flanged Inlets

Description	Catalog Number	
Black phenolic interior with steel housing and flange.	<b>HBL26422</b>	-
Black phenolic interior with steel housing and flange with blue finish.	-	<b>HBL26522</b>

Dimensions in Inches (mm)

## 60 Amp, 600 Volts AC

**IP30**  
SUITABILITY



### Connector Bodies

Description	Cord Dia.	Catalog Number
Black phenolic interior with yellow thermoplastic sleeve over steel cover.	.920"-1.450" (23.36-36.83)	<b>HBL26418</b> -
Black phenolic interior with blue thermoplastic sleeve over steel cover.	1.00"-1.50" (25.40-38.10)	- <b>HBL26516</b>

**IP44**  
SUITABILITY

### Receptacles

Description	Catalog Number
Black phenolic interior with short aluminum housing and lift cover.	<b>HBL26410</b> -
Black phenolic interior with long aluminum housing and lift cover.	<b>HBL26420</b> -
Black phenolic interior with long aluminum housing with lift cover and blue finish.	- <b>HBL26520</b>

**IP30**  
SUITABILITY

### Flanged Receptacles

Description	Catalog Number
Black phenolic interior with steel housing and flange.	<b>HBL26421</b> -
Black phenolic interior with steel housing and flange with blue finish.	- <b>HBL26521</b>

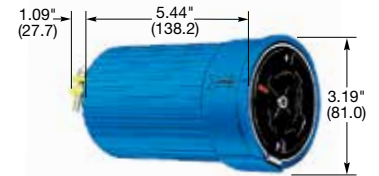
### Receptacle Box and Adapter Plates (Box requires one adapter)

Description	Catalog Number
Box, cast aluminum, only for 60A Hubbelllock receptacles.	<b>HBL26401</b>
Straight adapter plate.	<b>HBL26402</b>
45° adapter plate.	<b>HBL26404</b>

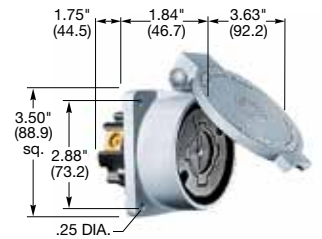
*Note: Straight or angle adapter plate must be used when mounting a 60A receptacle to HBL26401 box. Cannot be used with round flanged receptacles and inlets. See page B-68 for additional information.*



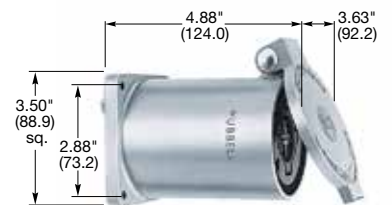
**HBL26418**



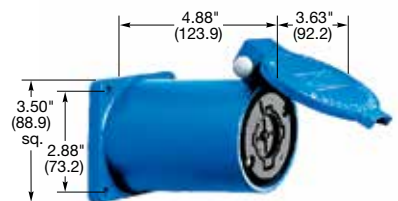
**HBL26516**



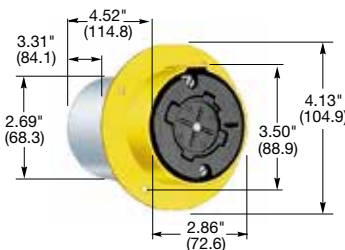
**HBL26410**



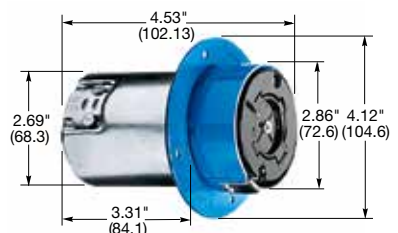
**HBL26420**



**HBL26520**



**HBL26421**



**HBL26521**

*Dimensions in Inches (mm)*

## Hubbellock® Accessories



**HBL20405**



**SEHBL3**



**SAB34**



**HBL20424B**



**HBL20425B**



**H660A**

### 30 Amp Hubbellock® Accessories

#### Receptacle Plates for FS/FD Box Mounting

Description	Catalog Number
Thermoplastic, wet and damp locations with cover "open", gray.	<b>HBL7428WOG*</b>
Thermoplastic, wet and damp locations with cover "open", yellow.	<b>HBL7428WOY*</b>
Thermoplastic, wet and damp locations with cover "open", red.	<b>HBL7428WOR*</b>
Cast aluminum, wet location only when cover "closed" and damp locations, lift cover plate.	<b>HBL20405</b>
Cast aluminum, wet location only when cover "closed" and damp locations, red finish.	<b>HBL20446</b>
302/304 stainless, single gang, smooth. NOT weatherproof.	<b>SS737</b>

Note: \*Features two #6-32 threaded inserts to back mount device to cover.

### Switched Enclosure

**IP54**  
SUITABILITY

Description	Catalog Number
Switched enclosure for use with 30A 3 pole 4 wire Hubbellock receptacle. Receptacle not included.	<b>SEHBL3</b>

Note: For more information on switched enclosures see page B-37.

### Liquidtight Metallic Conduit Adapters

Description	Catalog Number
Adapter for use with 1/2" NPT conduit fittings.	<b>SAB12</b>
Adapter for use with 3/4" NPT conduit fittings.	<b>SAB34</b>

### Boots

Description	Catalog Number
"Mini" boot for 4 wire Hubbellock connector body.	<b>HBL20424B†</b>
"Mini" boot for 4 wire Hubbellock plug.	<b>HBL20425B†</b>

Note: †Not UL Listed or CSA Certified.

### 60 Amp Hubbellock® Accessories

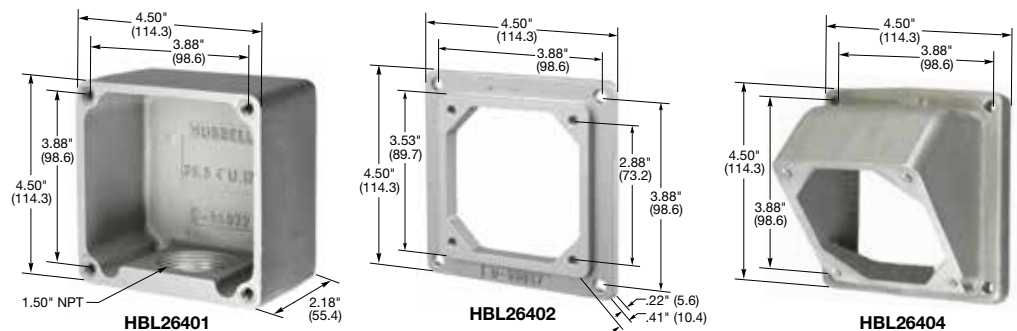
#### Receptacle Box and Adapter Plates (Box requires one adapter)

Description	Catalog Number
Box, cast aluminum, only for 60A Hubbellock receptacles.	<b>HBL26401</b>
Straight adapter plate.	<b>HBL26402</b>
45° adapter plate.	<b>HBL26404</b>

Note: Straight or angle adapter plate must be used when mounting a 60A receptacle to HBL26401 box. Cannot be used with round flanged receptacles and inlets.

### Kellems® Cable Grip

Description	Cord Diameter	Catalog Number
Cable grip.	.830"-1.000" (21.1-25.4)	<b>H660A</b>
Cable grip (not shown).	1.000"-1.140" (25.4-28.9)	<b>H661A</b>
Cable grip (not shown).	1.125"-1.328 (28.6-33.7)	<b>H662A</b>



Dimensions in Inches (mm)

# Twist-Lock® Devices

## Technical Information

15-30 Amp Twist-Lock and Safety-Shroud® Devices

### Specifications

#### Listings

Listed to UL Standard 498 (Attachment Plugs and Receptacles).

Fed. Spec. W-C-596 (Insulgrip® and Safety-Shroud®).

Certified to CSA Standard C22.2 No.42 (General Use Receptacles, Attachment Plugs and Similar Wiring Devices).

#### Plugs and Connector Bodies (Insulgrip®)

##### 15-30A

Blade/Contact Carrier	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Cover (Housing)	Black nylon (yellow in "CM" devices)
Cord Clamp	Natural (white) nylon
Dust Shield	EPDM
Blades/Contacts	Brass
Terminal Clamp	Cold rolled steel – nickel plated
Terminal Screws	15A (8-32), 20-30A (10-32) Brass (white finish on neutral screw when used)
Grounding Screw	Brass (green finish)
Cord Clamp Screws	Steel, zinc plated
Body Holding Screws	Steel, zinc plated

#### Flanged Inlet/Receptacles

##### 15-30A

Flanged Casing	Natural (white) nylon
Blade/Contact Carrier	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Blades/Contacts	Brass
Drive Screws	Steel, zinc plated
Terminal Clamp	Cold rolled steel, nickel plated
Terminal Screws	15A (8-32), 20-30A (10-32) Brass (white finish on neutral screw when used)
Grounding Screw	Brass (green finish)
Mounting Screws	Nickel plated brass round head screws
Screw Sizes	15A: 6-32, 3/8" long 20A and 30A: 8-32, 7/16" long

Receptacle, Single	15A	20A and 30A
--------------------	-----	-------------

Receptacle, Single	15A	20A and 30A
Cover (Top)	Nylon (Black)	Nylon (Black)
Base	RTP (Black)	RTP (Natural)
Contact Springs	.031" Brass	.040" Brass
Clamp	.031" Brass	.040" Brass
Ground Contact	.031" Brass	.040" Brass
Ground Shunt	–	.015" Brass
Bridge (Mounting Strap)	.050" Steel, zinc plated	–
End Plates (Mounting)	–	.050" Brass
Back Plate	–	.040" Brass
Terminal Screws	Brass (8-32)	Brass (10-32) (white finish on neutral screw when used)
Grounding Screw	Brass (Green)	Bronze (Green)
Flat Head Mounting Screws	Steel, zinc plated	Steel, zinc plated
Auto Ground Clip	Stainless steel	Stainless steel (Used only on IG receptacle)

#### Safety-Shroud® Receptacles Angle, Surface Semi-Flush

##### 20-30A

Housing and Mounting Flange	Gray Valox®
Mounting Plate (Angle Housing Only)	Galvanized steel
Body Contact Carrier	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Body Holding Screws	Steel, zinc plated
Contact Springs	Brass
Spring Binding Plate	Brass
Terminal Clamp	Steel, nickel plated .080" curved, scalloped
Terminal Screws	10-32 Brass (white finish on neutral screw when used)
Grounding Screw	Brass (green finish)
Mounting Plate Screws	Steel, zinc plated
Wallplate Mounting Screws	Steel, zinc plated

#### Safety-Shroud® Twist-Lock® Plug

##### 20-30A

Insulgrip Plug with Safety-Shroud installed	
Safety-shroud	White Valox®
Cord Clamp	White nylon

#### Performance (Twist-Lock® and Safety Shroud Devices)

Electrical	
Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	600 Volts RMS.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise Fed. Spec.	Max 30°C temperature rise at full rated current after 250 cycles of overload at 200% of rated current at a power factor of 75% (WC 596).

#### Mechanical (Twist-Lock® and Safety Shroud Devices)

Cord Accommodation (Plugs and connectors only)	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49.
Cord Grip Accommodation (Insulgrip)	15A: .230"-.720" (5.8-18.3); 20A and 30A 3W: .360"-.930" (9-24); 20A and 30A 4W-5W: .350"-.1.150" (9-29).
Terminal Identification	Terminals identified in accordance with UL 498 (X, Y, Z, White, Green).
Terminal Accommodation	20A and 30A, #16-#8 AWG. 15A, #18-#10 AWG. Solid or stranded copper wire only.
Product Identification	Ratings are a permanent part of the device housing.

#### Environmental (Twist-Lock® and Safety Shroud Devices)

Flammability (Enclosure)	HB or better per UL94/CSA 22.2 No. 0.17.
Plugs, Connectors, Flanged Receptacles and Flanged Inlets Receptacles (Box Mount)	V2 or better.
Operating Temperatures	Maximum Continuous 75°C. Minimum -40°C (w/o impact).

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



# Twist-Lock® Devices

## Technical Information

### 20 and 30 Amp Watertight Safety-Shroud® Twist-Lock® Devices

#### Specifications

##### Listings

Listed to UL Standard 498 (Attachment Plugs and Receptacles).

Certified to CSA Standard No.42 (General Use Receptacles, Attachment Plugs and Similar Wiring Devices).  
Fed. Spec. WC-596.

UL Listed, CSA Certified to Type 4, 4X and Type 12.

Part	Materials
<b>Watertight Safety-Shroud® Plug (Insulgrip®)</b>	<b>20 and 30A</b>
Blade Holder	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Cover (Housing)	Black Valox®
Cord Clamp	White Valox®
Blades	Brass
Terminal Clamp	Steel, nickel plated .080" curved scalloped
Terminal Screws	10-32 brass (white finish on neutral screw when used) multiple drive head
Grounding Screw	Brass (green finish) combination head
Cord Clamp Screws	Stainless steel 302/304, combination head
Body Holding Screws	Stainless steel 302/304, combination head
Closure Cap and Strap	Neoprene EPDM Blend

##### Watertight Safety-Shroud® Connector (Insulgrip®) 20 and 30A

Body Contact Carrier	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Contact Spring	Brass
Spring Binding Plate	Brass
Cover (Housing)	Black Valox®
Cord Clamp	White Valox®
Terminal Clamp	Steel, nickel plated .080" curved scalloped
Terminal Screws	10-32 brass (white finish on neutral screws when used) multiple drive head
Grounding Screw	Brass (green finish) combination head
Cord Grip Screws	Stainless steel 302/304, combination head
Body Holding Screws	Stainless steel 302/304, combination head
Closure Cap and Strap	Polypropylene with Neoprene gasket

##### Watertight Safety-Shroud Receptacle, Single\* 20 and 30A

Housing and Flange	Gray Valox
Body Contact Carrier	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Drive Screws	Steel, zinc plated
Contact Spring	Brass
Spring Binding Plate	Brass
Terminal Clamp	Steel, nickel plated .080" curved, scalloped
Flange Gasket	Closed-cell neoprene foam
Lid Gasket	Closed-cell neoprene foam
Cover Hinge Pin	Stainless steel 302/304
Cover Spring	Stainless steel 302/304
Terminal Screws	10-32 brass (white finish on neutral screw when used) multiple drive head
Grounding Screw	Brass (green finish) combination head
Mounting Screws	Stainless steel 302/304 combination head

##### Watertight Safety-Shroud® Flanged Inlet 20 and 30A

Housing and Flange	Gray Valox
Blade Holder	Natural (white) nylon
Terminal Retainer	Clear polycarbonate
Blades	Brass
Drive Screws	Steel, zinc plated
Terminal Clamp	Steel, nickel plated .080" curved scalloped
Terminal Screws	10-32 brass (white finish on neutral screw when used) multiple drive head
Grounding Screw	Brass (green finish) combination head
Closure Cap	Neoprene EPDM blend
Mounting Screws	Stainless steel 302/304 combination head

## Performance

##### Electrical

Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	600 Volts RMS.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max 30°C temperature rise at full rated current after 250 cycles of overload at 200% of rated current at a power factor of 75% (WC 596).

##### Mechanical

Cord Accommodation (Plugs and connectors only)	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49.
Cord Grip Accommodation	20 and 30A, 3W: .32"- .93" (8.1-24.0mm) #16-3 Type SJ-#8-3 Type S, SO; 20 and 30A, 4W: .35"-1.15" (9.0-29.2mm) #16-4 Type SJ-#8-4 Type S, SO; 20 and 30A, 5W: .35"-1.15" (9.0-29.2mm) #16-5 Type S, SO - #8-5 Type S, SO.
Terminal Identification	Terminals identified in accordance with UL 498 (X, Y, Z, White, Green).
Terminal Accommodation	#16- #8 AWG solid or stranded copper wire only.
Product Identification	Ratings are a permanent part of the device blade holder, and are also labeled on device color coded by voltage, visible in use. Catalog No. I.D. is on device visible in use.

##### Environmental

Moisture Resistance	Type 4, 4X, 12, IP66 suitability.
Flammability (Enclosure)	V0 per UL94 or CSA 22.2 No. 0.17.
Operating Temperatures	Maximum Continuous 75°C; Minimum -40°C (w/o impact).

Note: \*Suitable for use as a flanged receptacle.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Twist-Lock® Devices

## Technical Information

### 50 Amp Twist-Lock® Devices

#### Specifications

##### Listings

Listed to UL Standard 498 (Attachment Plugs and Receptacles).

Certified to CSA Standard No. 42 (General Use Receptacles, Attachment Plugs and Similar Wiring Devices).

Part	Materials
<b>Plug (Twist-Lock)</b>	<b>50A</b>
Blade Holder	Thermoplastic polyester (black)
Power Blades	Brass
Terminal Set Screw	Stainless steel
Terminal Retainer	Thermoplastic polyester
Front and Rear (housing)	Supertough nylon
Cord Clamp	Thermoplastic polyester (white)
Seal	Neoprene
Seal Cup	Nylon
Box Terminal	Copper
Latches	Supertough nylon
Ground Contact Spring	One piece copper/nickel
Cord Clamp Screws	302/304 Stainless steel
Shroud	302/304 Stainless steel

Part	Materials
<b>Connector (Twist-Lock)</b>	<b>50A</b>
Contact Nose	Nylon (black)
Terminal Retainer	Thermoplastic polyester (black)
Terminal Set Screw	302/304 Stainless steel
Contact Spring	Brass
Assembly Ring	302/304 Stainless steel
Front and Rear (housing)	Supertough nylon (black)
Latches	Supertough nylon (white)
Cord Clamp	Thermoplastic polyester (white)
Box Terminal	Copper
Contact Holder	Thermoplastic polyester (black)
Ground Contact	One piece copper/nickel
Seal Cup	Nylon
Cord Grip screws	302/304 Stainless steel
Seal	Neoprene

Part	Materials
<b>Flanged Inlet</b>	<b>50A</b>
Flanged Casing	.062" Steel, zinc plate
Blade Holder	Phenolic
Pressure Screws	Steel, zinc plate
Blades	.100" Brass
Ground Spring	.025" Bronze
Terminals	.050" Steel, brass finish
Grounding Terminal	.062" Copper, green finish
Round Head Screws	Steel, zinc plate

Part	Materials
<b>Receptacle</b>	<b>50A</b>
Body	Phenolic
Face	Phenolic
Contact Springs	.100" Brass alloy
Contact Binding Plates	.100" Brass
Ground Contact	.031" Brass
Insulator	.093" Laminated phenolic
Bridge (Mounting Strap)	.062" Steel, zinc plate
Pressure Screws	Steel, zinc plate
Terminals	.050" Steel
Casing	.062" Steel, zinc plate
Center Pin (CS Devices)	Steel, zinc plate

#### Product Identification

Ratings	Molded into face for all devices and stamped into stainless steel shroud on plug devices.
Catalog Number	Molded into face for plug and connector bodies and stamped into stainless steel shroud on plug devices.

#### Performance

##### Electrical

Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	600 Volts RMS.
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% rated DC current (UL 498).

##### Mechanical

Terminal Accommodation	#8 AWG min. - #4 AWG max. Solid or stranded copper wire only.
Cord Grip Accommodation	Round cords types: S, SO, ST .830"-1.250" (21.08-31.75).

##### Environmental

Flammability	UL 94 V0 for Receptacles and Inlets. HB or better for Plugs and Connectors.
Operating Temperatures	Maximum continuous 75°C; minimum -40°C (w/o impact).

Note: Please consult the factory for product dimensions and specifications for other products listed in this catalog.

# Twist-Lock® Devices

## Technical Information

### Switched Twist-Lock® and Hubbellock® Enclosures

#### Specifications

Typical Specifications	
Manufacturer's Identification	Hubbell SETL3/SEHBL3-SE2730A.
Description	Lockable Switched Enclosure. This unit is a complete enclosure ready to accept any 20 or 30A Twist-Lock or 30A Hubbellock receptacle.
Electrical Type	2 Pole + Earth through 4 Pole and Earth.
Rating	20 or 30A, 125V through 3ØY 347/600V AC.
Configuration	NEMA Locking L5-20R through L23-30R.
Enclosure Type	Outdoor – Type 3R (Rainproof, Sleet, External Ice), IP54 suitability. Indoor – Type 12K (Dust-tight, Falling Dirt, Noncorrosive Liquids, with Knockout).
Enclosure Material	Non-metallic enclosure suitable for metallic conduit.

#### Materials

Part	Materials
Base	Valox®
Top	Valox®
Handle	Valox®
Conduit Hub	Zinc ¾" watertight
Enclosure Gasket	Neoprene
Shaft	Valox®
Shaft Seal	Molded neoprene
Frame	Galvanized steel
Lift Cover	Valox®
Enclosure Screws	Stainless steel 300 series
Hinge Spring and Pin	Stainless steel 300 series

#### Performance

Electrical	
Dielectric Voltage	Withstands 3,000V minimum.
Max. Working Voltage	600V RMS.
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Short Circuit Withstand	Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes at the voltage rating of the receptacle.
Operations	Mechanical 10,000 cycles; Electrical 6,000 cycles.
Mechanical	
Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Identification	Identification and ratings are part of external label and receptacle face.
Weight	3.5 pounds.
Mounting	External fully adjustable feet.
Environmental	
Moisture Resistance	Outdoor – Type 3R (Rainproof, Sleet, External Ice), IP54 suitability. Indoor – Type 12K (Dust-tight, Falling Dirt, Noncorrosive Liquids, with Knockout).
Flammability	UL94 – 5 VA and V0 classification.
Operating Temperature	Maximum continuous +75°C; Minimum continuous -40°C.
UV Resistance	All materials are UV stabilized.

Note: This device provides on/off switched control of a plug connected load and includes lockout provision: ON-OFF control knob (in the OFF position) accepts up to a ¾" (8.0) diameter shackle of suitable padlock lockout device to isolate energy from the receptacle and cord connected equipment as a method of compliance to OSHA Lockout/Tagout Regulation 29CFR Part 1910.147.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Twist-Lock® Devices

## Technical Information

### Mechanical Interlock Switched Safety Enclosures

#### Specifications

Typical Specifications	
Manufacturer's Identification	Hubbell HBLMITL.
Description	Circuit-Lock Mechanical Interlock.
Electrical Type	2 Pole + Earth through 4 Pole and Earth.
Rating	Up to 30A, 3Ø 600V AC.
Enclosure Type	Outdoor – 4X (Watertight, Washdown); Indoor – 12K (Dust-tight, Falling Dirt and noncorrosive liquids with knockout. IP66 suitability.
Enclosure Material	Non-metallic enclosure suitable for metallic conduit.

#### Materials

Part	Material
Base	Valox®
Top	Valox®
Handle	Valox®
Conduit Hub	Zinc ¾" watertight
Enclosure Gasket	Neoprene
Shaft	Valox®
Shaft Seal	Neoprene
Frame	Galvanized steel
Enclosure Screws	Stainless steel 300 series

#### Performance

Electrical	
Dielectric Voltage	Withstands 3,000V Min.
Max. Working Voltage	600V RMS.
Current Interrupting	Certified for current interrupting at full rated current voltage.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes at the voltage rating of the receptacle.
Operations	Mechanical 10,000 cycles; Electrical 6,000 cycles.
Mechanical	
Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA.
Product Identification	Identification and ratings are part of the external label and receptacle face.
Weight	3.5 pounds.
Mounting	External full adjustable feet.
Environmental	
Moisture Resistance	Outdoor – 4X (Hose-Directed Water, Corrosion Resistance), IP66 suitability.
Flammability	Meets UL 94V0 material classification.
Operating Temperature	Maximum continuous +75°C; Minimum continuous -40°C.
UV Resistance	All exposed materials are UV stabilized.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Twist-Lock® Devices

## Technical Information

Valise® Plugs and Connectors

### Specifications

#### Plugs

Typical Specification - Catalog No. HBL4723VY.  
Description - Straight Body Plug  
Type - 2 Pole, 3 Wire, Grounding  
Rating - 15 and 20A 125V, 250V, and 277V AC, 30A 125 and 250V  
Certification - UL Listed File E1706, CSA Certified  
IP SUITABILITY - **IP20**

#### Connector Bodies

Typical Specification- Catalog No. HBL4729VY  
Description - Straight Body Connector  
Type - 2 Pole, 3 Wire, Grounding  
Rating - 15 and 20A 125V, 250V, and 277V AC, 30A 125 and 250V  
Certification - UL Listed File E1706, CSA Certified  
IP SUITABILITY - **IP20**

#### Part

Part	Material
Plug	15, 20 and 30A
Housing	Nylon
Blades	Brass
Ground Blade	Brass
Terminal Screws	Steel multiple drive
Cable Inserts	Polyphenylene Oxide
Terminal Clamps	CR Steel
Body Holding Screws	Steel multiple drive

#### Part

Part	Material
Connector	15, 20 and 30A
Housing	Nylon
Contact and Ground Springs	Brass
Terminal Screws	Steel multiple drive
Cable Inserts	Polyphenylene Oxide
Terminal Clamps	CR Steel
Body Holding Screws	Steel multiple drive

### Performance

#### Electrical

Dielectric Voltage	Withstands 2,000V minimum.
Max. Working Voltage	125V, 250V or 277V AC as rated.
Current Interrupting	Certified for full rated current.
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% rated DC current.

#### Mechanical

Terminal Identification	Screw Color per UL 498 (Brass, White and Green).
Terminal Accommodation	15A-18 to 12AWG. Solid or stranded copper wire only. 20A-18 to 10AWG. Solid or stranded copper wire only. 30A-14 to 8AWG. Solid or stranded copper wire only.
Product Identification	Molded rating on device face.
Torque	12 in-lb terminal screws, 7 in-lb assembly screws.

#### Cord Range

15A	.220" to .660" (5.6mm to 16.8mm).
20A	.325" to .720" (8.26mm to 18.3mm).
30A	.590" to .930" (15.0mm to 23.6mm).

#### Environmental

Flammability	UL 94HB.
Operating Temperature	Maximum continuous 75°C, minimum -40°C (w/o impact).

#### Standards

Listed to UL Standard UL498  
Certified to CSA Standard C22.2 No. 42



# SECTION C

## Table of Contents



### Watertight Devices



### FD Boxes and Angled Adapters



### GFCI Protected FD Box



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# Watertight Devices

## Features and Benefits

### Watertight Safety-Shroud® Twist-Lock® System

- Virtually eliminates bent and broken plug blades, leading to longer equipment life
- Extends life of mating receptacles by eliminating damage caused by insertion of bent blades
- Extra protection for personnel by significantly reducing chance of inadvertent contact with blades when connecting or disconnecting energized receptacles and connector bodies
- Reduces exposure to arcing when connecting or disconnecting plugs under load
- Compliance with California Code of Regulations, Title 8, Article 51, subsection 2510.7(b), which requires shrouding for devices exceeding 300 volts
- Lockout/tagout hole allows compliance with OSHA regulation 29 CFR 1910.147

Note: Works with Mechanical Interlocks, see page B-41 for additional information.



HBL2731SW



HBL2733SW



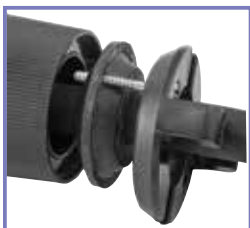
#### Housing Design

- One-piece, engineered thermoplastic housing is impact-resistant for heavy-duty industrial environments
- Blades are recessed for protection against bending and breaking
- Closure cap is included for environmental seal when device is not in use



#### Assembly

- Cord grip screw recess minimizes screwdriver slippage
- All screws are #10 multiple drive head



#### Cord Range

- Assorted TPE seal glands can accommodate a wide range of cord sizes from #16-3 Type SJ to #8-5 Type S, SO
- Sealing gland and thermoplastic guard prevents water ingress from entering the device at the cord end



#### Panel or Box Mount Receptacles and Inlets

- High impact, thermoplastic housing for heavy-duty industrial environments
- Mounting screw recesses minimize screwdriver slippage
- Accepts all mating NEMA locking plugs and most connector bodies, allowing interchangeability with existing devices



#### Identification

- Catalog number and color-coded voltage rating are easily visible even when in use
- Alignment arrows and lock and unlock symbols provide a visual indication that devices are properly connected



#### Spring-Loaded Cover

- One-step, push-to-close, spring-loaded cover with latch allows for fast opening and closing of lift cover
- Result: Environmental sealing is assured

## Watertight Safety-Shroud® Twist-Lock® Devices



	NEMA Rating Color Coded by Voltage	Plug/ Connector	Poles/Wires	Plug	Connector	Flanged Inlet	Receptacle
20 Amp	NEMA L5-20 20A 125V		2P/3W	<b>HBL2311SW</b>	<b>HBL2313SW</b>	<b>HBL2315SW</b>	<b>HBL2310SW</b>
	NEMA L6-20 20A 250V		2P/3W	<b>HBL2321SW</b>	<b>HBL2323SW</b>	<b>HBL2325SW</b>	<b>HBL2320SW</b>
	NEMA L7-20 20A 277V AC		2P/3W	<b>HBL2331SW</b>	<b>HBL2333SW</b>	<b>HBL2335SW</b>	<b>HBL2330SW</b>
	NEMA L14-20 20A 125/250V AC		3P/4W	<b>HBL2411SW</b>	<b>HBL2413SW</b>	<b>HBL2415SW</b>	<b>HBL2410SW</b>
	NEMA L15-20 20A 3Ø 250V AC		3P/4W	<b>HBL2421SW</b>	<b>HBL2423SW</b>	<b>HBL2425SW</b>	<b>HBL2420SW</b>
	NEMA L16-20 20A 3Ø 480V AC		3P/4W	<b>HBL2431SW</b>	<b>HBL2433SW</b>	<b>HBL2435SW</b>	<b>HBL2430SW</b>
	NEMA L21-20 20A 3ØY 120/208V AC		4P/5W	<b>HBL2511SW</b>	<b>HBL2513SW</b>	<b>HBL2515SW</b>	<b>HBL2510SW</b>
30 Amp	NEMA L5-30 30A 125V		2P/3W	<b>HBL2611SW</b>	<b>HBL2613SW</b>	<b>HBL2615SW</b>	<b>HBL2610SW</b>
	NEMA L6-30 30A 250V		2P/3W	<b>HBL2621SW</b>	<b>HBL2623SW</b>	<b>HBL2625SW</b>	<b>HBL2620SW</b>
	NEMA L14-30 30A 125/250V AC		3P/4W	<b>HBL2711SW</b>	<b>HBL2713SW</b>	<b>HBL2715SW</b>	<b>HBL2710SW</b>
	NEMA L15-30 30A 3Ø 250V AC		3P/4W	<b>HBL2721SW</b>	<b>HBL2723SW</b>	<b>HBL2725SW</b>	<b>HBL2720SW</b>
	NEMA L16-30 30A 3Ø 480V AC		3P/4W	<b>HBL2731SW</b>	<b>HBL2733SW</b>	<b>HBL2735SW</b>	<b>HBL2730SW</b>
	NEMA L17-30 30A 3Ø 600V AC		3P/4W	<b>HBL2741SW</b>	<b>HBL2743SW</b>	<b>HBL2745SW</b>	<b>HBL2740SW</b>
	NEMA L21-30 30A 3ØY 120/208V AC		4P/5W	<b>HBL2811SW</b>	<b>HBL2813SW</b>	<b>HBL2815SW</b>	<b>HBL2810SW</b>

## Mechanical Interlock Switched Safety Enclosure

Description	Catalog Number
Unfused mechanical interlock integrates a watertight safety shroud receptacle with a linked disconnect switch. See page B-41 for additional information.	<b>HBLMITL</b>



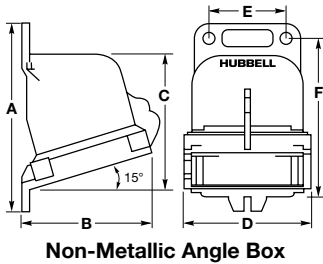
**HBLMITL**

## Specifications

Listings	
Listed to UL Standard 498 Certified to CSA Standard No.42 Fed. Spec. WC-596	
Environmental	
Moisture Resistance	UL Type 4, 4X, 12, IP66 suitability
Flammability (Enclosure)	V0 per UL94 or CSA 22.2 No. 0.17
Operating Temperatures	Maximum Continuous 75°C; Minimum -40°C (without impact)

# Watertight Devices

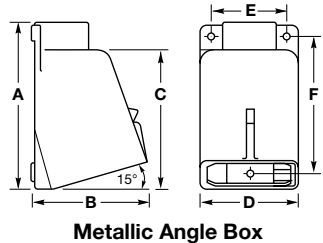
## Accessories



### 15° Angle Non-Metallic Back Box

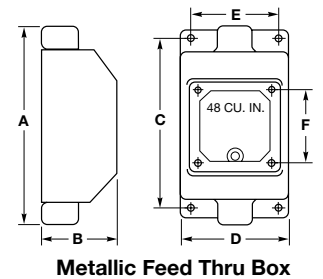
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	1"	5.67" (144.0)	4.44" (112.8)	4.05" (102.9)	3.91" (99.3)	2.35" (59.7)	4.92" (125.0)	30.00"	<b>BB2030N</b>

Note: Hub is not included; order Racco part number 1704. This box meets IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.



### 15° Angle Metallic Back Boxes

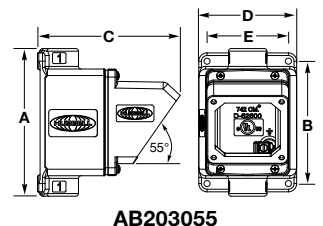
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	¾"	5.13" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	<b>BB201W</b>
	1"	5.13" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	<b>BB301W</b>



### Metallic Feed Thru Back Boxes

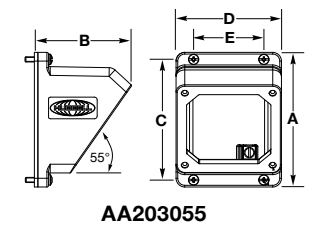
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	¾"	8.25" (209.6)	3.06" (77.8)	7.14" (181.4)	4.50" (114.3)	3.75" (95.3)	3.13" (79.5)	48.00"	<b>FT202W</b>
	1"	8.25" (209.6)	3.06" (77.8)	7.14" (181.4)	4.50" (114.3)	3.75" (95.3)	3.13" (79.5)	48.00"	<b>FT302W</b>

Note: These boxes are cast aluminum and are finished with enamel paint. These boxes withstand a 500-hour salt spray test as well as UL raintight and external icing tests. NPT (metric designator).



### 55° Angle Metallic Adapter and Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	1"	6.80" (172.4)	5.63" (142.9)	6.60" (167.0)	4.50" (114.3)	3.74" (95.0)	-	45.27"	<b>AB203055</b>



### 55° Angle Metallic Adapter with Grounding Lug

Description	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
For 20A and 30A Watertight Safety-Shroud Twist-Lock Receptacles and Inlets.	4.89" (124.2)	3.33" (84.8)	4.29" (109.0)	3.75" (95.3)	2.50" (63.5)	-	25.00"	<b>AA203055</b>



### Straight Watertight Wall Box Adapter

Description	Catalog Number
Adapts 20A and 30A Watertight Safety-Shroud Twist-Lock receptacles and inlets to 2-gang, device mount, FD boxes.	<b>HBL2030AP</b>



### Non-Watertight Angle Wall Box Adapter

Description	Catalog Number
Adapts 20A and 30A Watertight Safety-Shroud Twist-Lock receptacles to 1- or 2-gang standard wall boxes (4" or 4 1/16" square).	<b>AA2030PS</b>

Dimensions in Inches (mm)

# Watertight Devices

## Features and Benefits

### Watertight Devices

- The triple bypass seal provides a Watertight UL Type 4X seal where devices are mated
- The cone seal at the cable entrance provides protection from water ingress
- Strongest strain relief for any Watertight device on the market, utilizing the patented Gotcha ring and collapsible bushing combination
- Nickel plated brass contacts and stainless steel screws provide corrosion resistance for metallic components
- Impact resistant, smooth, thermoplastic elastomer body helps collection point and aids in easy debris removal
- Floating cap rings allows for easy removal of dirt and debris



HBL24W47A



HBL25W47A



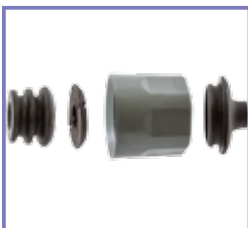
#### Housing Design

- Smooth body design minimizes collection points simplifying the wash down process
- Strain relief nut always seals on the body regardless of cable size, eliminating areas of debris collection



#### Assembly

- Keyed interior for easy installation
- All stainless steel hardware and corrosion resistant connection points



#### Cord Range

- Hubbell's patented Gotcha® ring and collapsible bushing yields the industry's best strain relief
- Cone seal adjusts to any cable range
- Unique cone seal prevents dirt and debris from collecting at the cable entrance



#### Contacts

- High conductivity brass termination



#### Protection

- Triple bypass seal keeps water away from electrical connections and works with previously installed devices
- Free-floating cap allows unwanted material to wash away during sanitation



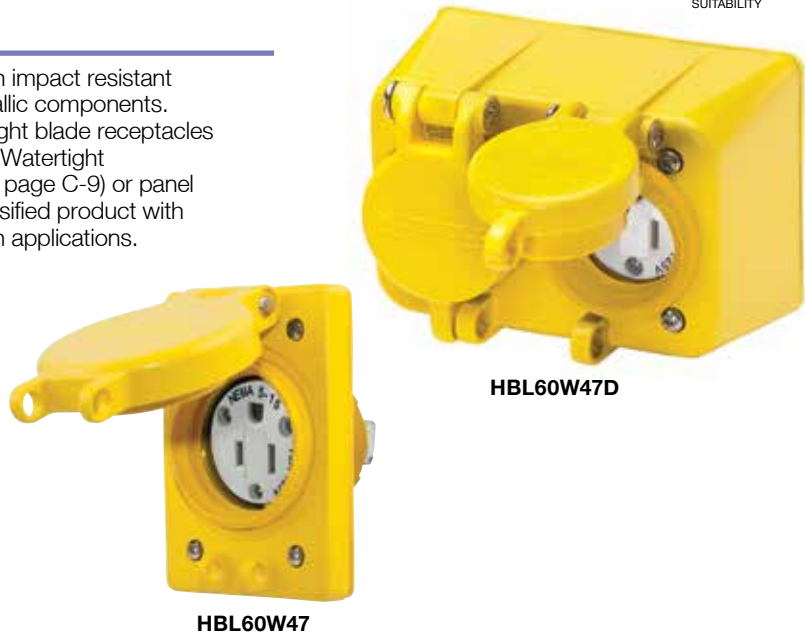
#### Plug Blades

- Corrosion resistant connection points



### Watertight Receptacles with Lift Covers

Hubbell Watertight receptacles with lift covers provide an impact resistant UL Type 4X seal combined with corrosion resistant metallic components. These universal covers can house any NEMA listed straight blade receptacles as well as any NEMA listed Twist Lock receptacles. The Watertight receptacles can either be mounted to FD/FS boxes (see page C-9) or panel mounted to a flat surface. Combined, this makes a diversified product with the high quality needed in industrial, wet and wash down applications.



#### Housing Design

- Impact resistant PBT material lid and cover plate
- Thermoplastic elastomer seal
- Lockable cover meets OSHA Lockout/Tagout regulations



#### Assembly

- Stainless steel mounting hardware
- Stainless steel hinge spring and pin



HBL14W47A

HBL15W47A



#### Also Available:

- Watertight Lift Covers, for use with standard receptacles



HBL60W47

HBL60W47D

### Straight Blade Devices

	Rating	Plug/Connector	Poles/Wires	Color	Plug	Connector	Receptacle with Lift Cover	Duplex Recept. with Lift Cover
15 Amp	NEMA 5-15 15A 125V		2P/3W	Yellow Black	<b>HBL14W47A</b> <b>HBL14W47BK</b>	<b>HBL15W47A</b> <b>HBL15W47BK</b>	<b>HBL60W47</b> <b>HBL60W47BK</b>	<b>HBL60W47D</b> —
	NEMA 6-15 15A 250V		2P/3W	Yellow	<b>HBL14W49</b>	<b>HBL15W49</b>	<b>HBL60W49</b>	<b>HBL60W49D</b>
20 Amp	NEMA 5-20 20A 125V		2P/3W	Yellow	<b>HBL14W33A</b>	<b>HBL15W33A</b>	<b>HBL60W33</b>	<b>HBL60W33D</b>
	NEMA 6-20 20A 250V		2P/3W	Yellow	<b>HBL14W48</b>	<b>HBL15W48</b>	<b>HBL60W48</b>	<b>HBL60W48D</b>

## Twist-Lock® Devices

	Rating	Plug/ Connector	Poles/ Wires	Color	Plug	Connector	Receptacle with Lift Cover	Duplex Recept. with Lift Cover
15 Amp	NEMA L5-15 15A 125V		2P/3W	Yellow Black	<b>HBL24W47A</b> <b>HBL24W47BK</b>	<b>HBL25W47A</b> <b>HBL25W47BK</b>	<b>HBL65W47</b> —	<b>HBL65W47D</b> —
	NEMA L6-15 15A 250V		2P/3W	Yellow	<b>HBL24W49</b>	<b>HBL25W49</b>	<b>HBL65W49</b>	<b>HBL65W49D</b>
	NEMA L7-15 15A 277V AC		2P/3W	Yellow Black	<b>HBL24W34</b> <b>HBL24W34BK</b>	<b>HBL25W34</b> <b>HBL25W34BK</b>	<b>HBL65W34</b> —	<b>HBL65W34D</b> —
20 Amp	NEMA L5-20 20A 125V		2P/3W	Yellow Black	<b>HBL26W47</b> <b>HBL26W47BK</b>	<b>HBL27W47</b> <b>HBL27W47BK</b>	<b>HBL67W47</b> —	— —
	NEMA L6-20 20A 250V		2P/3W	Yellow Black	<b>HBL26W48</b> <b>HBL26W48BK</b>	<b>HBL27W48</b> <b>HBL27W48BK</b>	<b>HBL67W48</b> <b>HBL67W48BK</b>	— —
	NEMA L7-20 20A 277V AC		2P/3W	Yellow	<b>HBL26W49</b>	<b>HBL27W49</b>	<b>HBL67W49</b>	—
	NEMA L14-20 20A 125/250V AC		3P/4W	Yellow	<b>HBL26W74</b>	<b>HBL27W74</b>	<b>HBL67W74</b>	—
	NEMA L15-20 20A 3Ø 250V AC		3P/4W	Yellow Black	<b>HBL26W75</b> <b>HBL26W75BK</b>	<b>HBL27W75</b> <b>HBL27W75BK</b>	<b>HBL67W75</b> <b>HBL67W75BK</b>	— —
	NEMA L16-20 20A 3Ø 480V AC		3P/4W	Yellow Black	<b>HBL26W76</b> <b>HBL26W76BK</b>	<b>HBL27W76</b> <b>HBL27W76BK</b>	<b>HBL67W76</b> <b>HBL67W76BK</b>	— —
	NEMA L21-20 20A 3ØY 120/208V AC		4P/5W	Yellow Black	<b>HBL26W81</b> <b>HBL26W81BK</b>	<b>HBL27W81</b> <b>HBL27W81BK</b>	<b>HBL67W81</b> —	— —
	NEMA L22-20 20A 3ØY 277/480V AC		4P/5W	Yellow	<b>HBL26W82</b>	<b>HBL27W82</b>	<b>HBL67W82</b>	—
	NEMA L23-20 20A 3ØY 347/600V		4P/5W	Yellow	<b>HBL26W83</b>	<b>HBL27W83</b>	<b>HBL67W83</b>	—
	20A 125/250V Non-NEMA		3P/3W	Yellow	<b>HBL26W08</b>	<b>HBL27W08</b>	<b>HBL67W08</b>	—
	20A 3ØY 120/208V AC Non-NEMA		4P/4W	Yellow	<b>HBL26W09</b>	<b>HBL27W09</b>	<b>HBL67W09</b>	—
30 Amp	NEMA L5-30 30A 125V		2P/3W	Yellow Black	<b>HBL28W47</b> <b>HBL28W47BK</b>	<b>HBL29W47</b> <b>HBL29W47BK</b>	<b>HBL69W47</b> —	— —
	NEMA L6-30 30A 250V		2P/3W	Yellow Black	<b>HBL28W48</b> —	<b>HBL29W48</b> —	<b>HBL69W48</b> <b>HBL69W48BK</b>	— —
	NEMA L7-30 30A 277V AC		2P/3W	Yellow	<b>HBL28W49</b>	<b>HBL29W49</b>	<b>HBL69W49</b>	—
	NEMA L14-30 30A 125/250V AC		3P/4W	Yellow	<b>HBL28W74</b>	<b>HBL29W74</b>	<b>HBL69W74</b>	—
	NEMA L15-30 30A 3Ø 250V AC		3P/4W	Yellow Black	<b>HBL28W75</b> <b>HBL28W75BK</b>	<b>HBL29W75</b> <b>HBL29W75BK</b>	<b>HBL69W75</b> <b>HBL69W75BK</b>	— —
	NEMA L16-30 30A 3Ø 480V AC		3P/4W	Yellow Black	<b>HBL28W76</b> <b>HBL28W76BK</b>	<b>HBL29W76</b> <b>HBL29W76BK</b>	<b>HBL69W76</b> <b>HBL69W76BK</b>	— —
	NEMA L17-30 30A 3Ø 600V AC		3P/4W	Yellow	<b>HBL28W77</b>	<b>HBL29W77</b>	<b>HBL69W77</b>	—
	NEMA L18-30 30A 3ØY 120/208V AC		4P/4W	Yellow	<b>HBL28W78</b>	<b>HBL29W78</b>	—	—
	NEMA L21-30 30A 3ØY 120/208V AC		4P/5W	Yellow Black	<b>HBL28W81</b> <b>HBL28W81BK</b>	<b>HBL29W81</b> <b>HBL29W81BK</b>	<b>HBL69W81</b> —	— —
	NEMA L22-30 30A 3ØY 277/480V AC		4P/5W	Yellow	<b>HBL28W82</b>	<b>HBL29W82</b>	<b>HBL69W82</b>	—
	NEMA L23-30 30A 3ØY 347/600V AC		4P/5W	Yellow	<b>HBL28W83</b>	<b>HBL29W83</b>	<b>HBL69W83</b>	—
	30A 125/250V Non-NEMA		3P/3W	Yellow	<b>HBL28W08</b>	<b>HBL29W08</b>	<b>HBL69W08</b>	—
	30A 3ØY 120/208V AC Non-NEMA		4P/4W	Yellow	<b>HBL28W09</b>	<b>HBL29W09</b>	—	—





**HBL6500**



**HBL28W75IN**



**HBL29W75IN**



**HBLWTB1**



**HBLWTCS2**



**HBL50W50**

### UL Type 4X Watertight Lift Covers

	Description	Color	Lift Cover
Lift Cover Assembly	For use with 15A or 20A straight blade receptacles and 15A Twist-Lock® receptacles; receptacle not included.	Yellow Black	<b>HBL6500</b> <b>HBL6500BK</b>
	For use with 20A Twist-Lock® receptacles; receptacle not included. <i>Note: When mating with HBL26W09, 20A Non-NEMA plug, use HBL6800 cover.</i>	Yellow Black	<b>HBL6700</b> <b>HBL6700BK</b>
	For use with 30A Twist-Lock® receptacles; receptacle not included.	Yellow Black	<b>HBL6800</b> <b>HBL6800BK</b>

### Interiors

	Device	125V		3Ø 250V AC		3Ø 480V AC	
		Plug	Receptacle	Plug	Receptacle	Plug	Receptacle
15A	Straight Blade Locking	<b>HBL14W47IN</b>	<b>HBL15W47IN</b>	—	—	—	—
		<b>HBL24W47IN</b>	—	—	—	—	—
20A	Locking	—	<b>HBL27W47IN</b>	<b>HBL26W75IN</b>	—	<b>HBL26W76IN</b>	<b>HBL27W76IN</b>
30A	Locking	—	—	<b>HBL28W75IN</b>	<b>HBL29W75IN</b>	<b>HBL28W76IN</b>	<b>HBL29W76IN</b>

### Bushings, Cone Seals and Closure Caps

	Device	Bushings	Cone Seals	Closure Caps	
				Yellow	Black
15A	Straight Blade Locking	<b>HBLWTB1</b>	<b>HBLWTCS1</b>	<b>HBL50W50</b>	<b>HBL50W50BK</b>
		<b>HBLWTB1</b>	<b>HBLWTCS1</b>	<b>HBL50W50</b>	<b>HBL50W50BK</b>
20A	Straight Blade Locking	<b>HBLWTB1</b>	<b>HBLWTCS1</b>	<b>HBL50W50</b>	<b>HBL50W50BK</b>
		<b>HBLWTB2</b>	<b>HBLWTCS2</b>	<b>HBL50W52</b>	<b>HBL50W52BK</b>
30A	Locking	<b>HBLWTB3</b>	<b>HBLWTCS3</b>	<b>HBL50W54</b>	<b>HBL50W54BK</b>

## Features and Benefits

UL Type 4X

**IP65, 66**  
SUITABILITY

### FD Boxes and Angled Adapters

Hubbell FD boxes and angled adapters are made of high impact resistant material. They are the only NEC compliant box system that has enough wiring room for a 50A Twist Lock device. The stainless steel mounting and grounding bracket provides corrosion resistance, necessary in direct wash down applications. The FD Boxes are UL Type 4X rated when used with Watertight Lift Covers, i.e. HBL6500 or HBL6700 as well as with a blank plate such as HBL60CM88. The box and angled adapter can either be purchase separately or as a kit. The FD box and Adapter can be used with any single or duplex receptacle up to 50A Twist Lock.



HBL60CM55

HBL60CM83A



#### Housing Design

- 30 cu. in. FD box made of high impact thermoplastic material
- 3/4" NPT and 1" NPT threaded hub options
- Stainless steel mounting/grounding bracket
- External mounting feet, accepts #10 screw



#### Adapter

- 55° angle adapter (15 cu. in.)
- External mounting feet, accepts #8 screw
- Accepts duplex and single receptacles up to 50A Twist-Lock®

### FD Boxes and Angled Adapters

	Description	Catalog Number
Boxes	(2) 3/4" NPT Hubs, FD Box, Yellow	<b>HBL60CM83A</b>
	(2) 3/4" NPT Hubs, FD Box, White	<b>HBL60CM83WA</b>
	(2) 3/4" NPT Hubs, FD Box, Gray	<b>HBL6083</b>
	(2) 1" NPT Hubs, FD Box, Yellow	<b>HBL60CM84A</b>
	(2) 1" NPT Hubs, FD Box, White	<b>HBL60CM84WA</b>
	(2) 1" NPT Hubs, FD Box, Gray	<b>HBL6084</b>
Adapters	55° Angle Adapter, Yellow	<b>HBL60CM55</b>
	55° Angle Adapter, White	<b>HBL60CM55W</b>
	55° Angle Adapter, Gray	<b>HBL6055</b>
Kits	(2) 3/4" NPT Hubs, Box/Adapter Kit, Yellow	<b>HBL60CM83AK</b>
	(2) 3/4" NPT Hubs, Box/Adapter Kit, White	<b>HBL60CM83WAK</b>
	(2) 3/4" NPT Hubs, Box/Adapter Kit, Gray	<b>HBL6083AK</b>
	(2) 1" NPT Hubs, Box/Adapter Kit, Yellow	<b>HBL60CM84AK</b>
	(2) 1" NPT Hubs, Box/Adapter Kit, White	<b>HBL60CM84WAK</b>
	(2) 1" NPT Hubs, Box/Adapter Kit, Gray	<b>HBL6084AK</b>
Covers	Blank Cover Plate, Yellow	<b>HBL60CM88</b>
	Blank Cover Plate, White	<b>HBL60CM88W</b>
	Blank Cover Plate, Gray	<b>HBLP14FS</b>



HBL60CM83A



HBL60CM55



HBL60CM88



HBLP14FS



HBL60CM88W



## Features and Benefits

UL Type 4X

### GFCI Protected FD Box

The GFCI protected FD box provides a UL Type 4X GFCI enclosure made for wet and damp locations for 30A 120V and 240V Watertight receptacles. The GFCI response time does not exceed .025 seconds ensuring a safe circuit shut down if the current were to deviate from its path. Auto resetting GFCI box, when connected to an FD box by utilizing a PolyTuff® liquid tight conduit provides advanced safety features for Watertight devices.



HBLWTGF120



#### GFCI Housing Design

- UL enclosure Type 4X, for wet and damp locations. Components are UL and CSA listed
- 30A, 120V and 240V with auto reset
- GFCI response time is .025 sec. Max.
- Grounded neutral protection trips if ground and neutral touch at load side



#### FD Box

- Utilizes PolyTuff® liquidtight conduit and fittings
- UL enclosure Type 4X, for wet and damp locations. Components are UL and CSA listed
- For use with single and duplex watertight receptacles (single phase only)

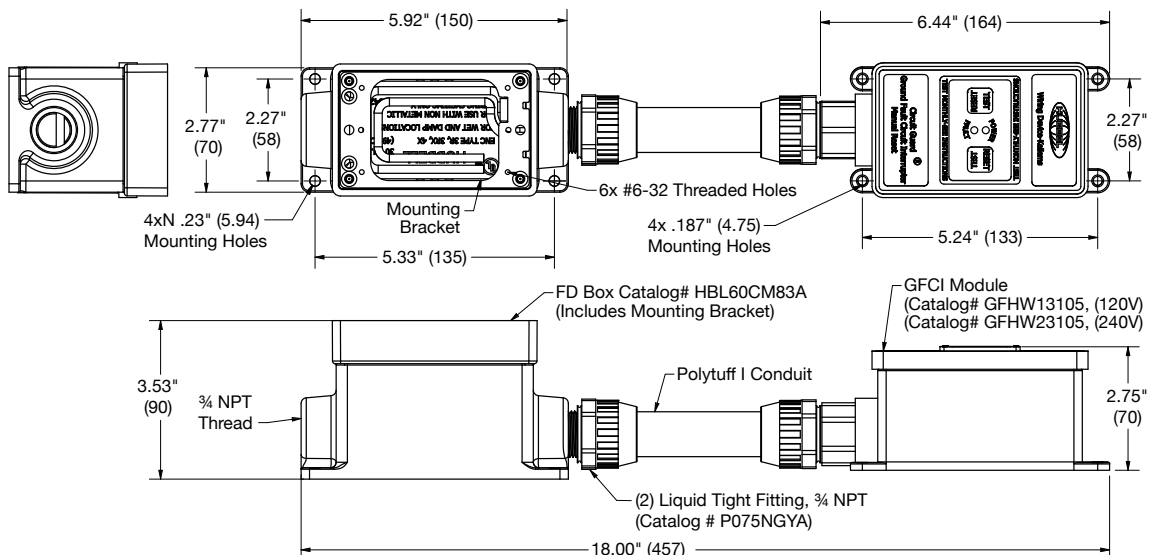
Note: Watertight receptacles purchased separately.

### GFCI Protected FD Box

	Description	Catalog Number
FD Box	Watertight FD Box, GFCI Module, 30A 120V, Yellow	<b>HBLWTGF120</b>
	Watertight FD Box, GFCI Module, 30A 240V, Yellow	<b>HBLWTGF240</b>



HBLWTGF120  
HBLWTGF240



Dimensions in Inches (mm)



## Features and Benefits

Box Suitable for Wet and Damp Locations

**IP44**  
SUITABILITY

### Portable Outlet Boxes and Covers for Boxes and Panels

The thermoplastic elastomer material of the Portable Outlet Box provides a strong housing with enough capacity for multiple devices to fit, with cord feed through options available. The impact resistant PBT covers add to the durability of the box and the devices inside. There are several cord connectors available ranging from standard to deluxe, providing unmatched strain relief. The covers provide a UL Type 3R weather resistant seal suitable for wet and damp locations. Portable Outlet Boxes are available as pre-assembled or can be configured as needed.



#### Housing Design

- Fully thermoplastic elastomer housing exceeds UL crush requirements
- Wiring room large enough to accommodate the broadest range of device requirements in one size box
- Extended wall protects lift covers from impact damage
- Brass inserts for maximum strength



#### Covers

- Impact resistant PBT material
- UL Type 3R seal on a panel or on a portable outlet box
- Stainless steel hinge and spring

### Pre-Assembled Portable Outlet Boxes (with Cord Connector Installed)

	Description	Cord Range Inches (mm)	Catalog Number
Boxes	Portable Outlet Box, Deep, Yellow	.38"-.50" (9.7-12.7)	<b>HBL3099</b>
	Portable Outlet Box, Deep, Feed Thru, Yellow	.38"-.50" (9.7-12.7)	<b>HBL3090F</b>
	Portable Outlet Box, Deep, Yellow with (2) duplex plates	.38"-.50" (9.7-12.7)	<b>HBL3000</b>



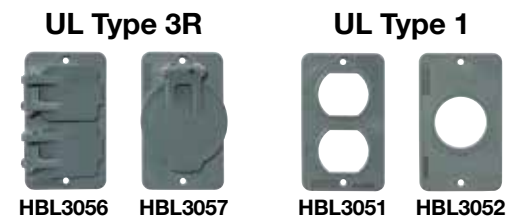
### Configurable Portable Outlet Boxes

	Empty Box Options	Catalog Number	Cord Range Inches (mm)	Cord Connector Options		Deluxe Cord Connectors
				Gray Nylon	Black Nylon	
Boxes	Outlet Box, Yellow	<b>HBL3080</b>	.38"-.50" (9.7-12.7)	<b>SHC1039CR</b>	—	—
	Outlet Box, Black	<b>HBL3080BK</b>	.50"-.63" (12.7-15.9)	<b>SHC1040CR</b>	<b>SHC2040CR</b>	<b>CG810NM</b>
	Feed Thru Box, Yellow	<b>HBL3080F</b>	.63"-.75" (15.9-19.0)	<b>SHC1041CR</b>	<b>SHC2041CR</b>	<b>074011341</b>
	Feed Thru Box, Black	<b>HBL3080FBK</b>	.75"-.88" (19.0-22.2)	<b>SHC1042CR</b>	<b>SHC2042CR</b>	<b>074011342</b>
			.88"-.1.00" (22.2-25.4)	<b>SHC1043CR</b>	<b>SHC2043CR</b>	<b>074011343</b>
			.59"-.1.00" (15.0-25.4)	<b>SEC100GA</b>	<b>SEC100BA</b>	—



### Covers for Portable Outlet Boxes and Panels

	Description	UL Type 3R	UL Type 1
Box Covers	Outlet box cover, duplex receptacle	<b>HBL3056</b>	<b>HBL3051</b>
	Outlet box cover, 1.39" diameter receptacle	<b>HBL3057</b>	<b>HBL3052</b>
	Outlet box cover, 1.572" diameter receptacle	<b>HBL3058</b>	<b>HBL3055</b>
	Outlet box cover; GFCI	<b>HBL3061</b>	<b>HBL3060</b>
	Outlet box coverplate, blank	<b>HBL3054</b>	—





**HBLPOB1**



**Cover Plates**



**Deluxe Cord Grips  
(purchased separately)**



**Gray Nylon  
Cord Connector**

## Heavy-Duty Portable Outlet Boxes and Cover Plates

Description	Catalog Number
Box with cord strain relief, with one blank cover plate.	<b>HBLPOB1</b>
Box with cord strain relief, with one blank cover plate, black.	<b>HBLPOB1BK</b>
Box with cord strain relief, with two duplex (indoor) cover plates.	<b>HBLPOB1D</b>
Box with cord strain relief, with two duplex (indoor), yellow cover plates.	<b>HBLPOB1DY</b>
Blank, non-metallic FS cover plate with foam gasket, gray.	<b>HBLP14FS</b>
Duplex, non-metallic FS cover plate, gray.	<b>HBLP8FS</b>
Duplex, non-metallic FS cover plate, yellow.	<b>HBLP8FSY</b>
Single receptacle (1.39"), non-metallic FS cover plate, gray.	<b>HBLP7FS</b>
Single receptacle (1.56"), non-metallic FS cover plate, gray.	<b>HBLP720FS</b>
Rectangular opening, non-metallic FS cover plate, gray.	<b>HBLP26FS</b>

## Other Cover Plates and Devices which may be used with Heavy-Duty Portable Outlet Boxes

Description	Catalog Number
Duplex cover plate, weatherproof.	<b>HBL5221, HBL52CM21</b>
Single receptacle (1.39") cover plate, weatherproof.	<b>HBL7423WO, HBL74CM23WO</b>
Single receptacle (1.56") cover plate, weatherproof.	<b>HBL7425WOA, HBL74CM25WOA</b>
Safety-Shroud Twist-Lock® surface receptacles.	<b>HBL2310SR, HBL2320SR, HBL2330SR, HBL2610SR, HBL2620SR</b>

Note: Standard product gray, CM yellow.

## Deluxe Cord Grips Straight Male Thread Nylon Fittings, Stainless Steel Mesh, Liquidtight, for Insulated Cables

Grip Diameter Range Inches (cm.)	Thread Size NPT (inches)	Form Size	Catalog Number
.375"-.500" (.97-1.27)	¾"	F3	<b>074011335</b>
.500"-.625" (1.27-1.59)	¾"	F3	<b>074011336</b>
.625"-.750" (1.59-1.90)	¾"	F3	<b>074011337</b>

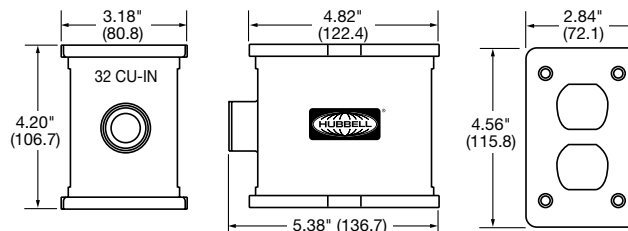
## Nylon Cord Connector Straight Male Thread

Grip Diameter Range Inches (cm.)	Thread Size NPT (inches)	Form Size	Catalog Number
.375"-.500" (.97-1.27)	¾"	F3	<b>SHC1035CR</b>
.500"-.625" (1.27-1.59)	¾"	F3	<b>SHC1036CR</b>
.625"-.750" (1.59-1.90)	¾"	F3	<b>SHC1037CR</b>

## Specifications for Heavy-Duty Portable Outlet Boxes and Cover Plates

UL Listed	UL 514C, UL467 and UL50 Enclosures Types 1, 3R.
CSA Certified	C22.2 No. 18 and C22.2 No. 94 Enclosures Types 1, 3R and C22.2 No. 0.4 (Impedance).
Box Specifications:	
Moisture Resistance	Wet and damp locations, Enclosure Type 3R when used with weatherproof cover plates. Dry, indoors locations, Enclosure Type 1 with all other cover plates.
Flammability	UL 94V-0, 94-5VA classification.
Operating Temperature	80°C maximum; -35°C minimum.
UV Resistance	All materials are UV stabilized.
Impact and Crush Resistance	in accordance with UL 514C, UL50, C22.2 No. 18 and C22.2 No. 94.
Material	Valox®.
Cord Connector Materials	Nylon nut; Nylon Gotcha® ring; Neoprene grommet.
Cord Diameter Range	.38" to .75" diameter.
Bonding Strap Material	Brass.
Threaded Inserts	Brass.
Grounding Screw Material	Brass.
Indoor Cover Plate Screws Material	Zinc Plated Steel.
Outdoor Cover Plate Screws Material	Stainless Steel.
Cover Plate Gasket Material	UL recognized closed-cell foam (aging and oil resistant).

## Dimensions



**HBLPOB1**

Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Watertight Devices

## Plugs and Connectors Inches (mm)

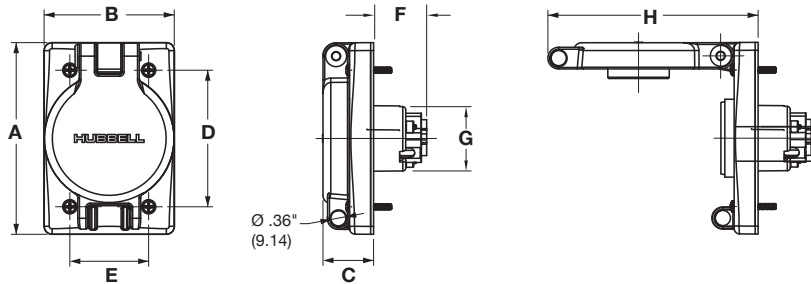
		15A & 20A Straight Blade	15A Non-NEMA Straight Blade	15A Twist-Lock®	20A Twist-Lock®	30A Twist-Lock®
Plugs	<b>A</b>	1.85" (47.07)	1.63" (41.40)	1.85" (47.07)	2.51" (63.70)	2.77" (70.41)
	<b>B</b>	3.16" (80.27)	2.68" (68.00)	3.21" (81.46)	3.96" (100.69)	3.94" (99.98)
Connectors	<b>C</b>	1.85" (47.07)	1.80" (46.00)	1.85" (47.07)	2.51" (63.70)	2.77" (70.41)
	<b>D</b>	4.42" (112.14)	4.00" (102.00)	4.62" (117.22)	5.69" (144.55)	5.67" (144.00)

Note: For HBL26W09 and HBL27W09 use 30A Twist-Lock® dimensions.



## Receptacles with Lift Covers Inches (mm)

	15A & 20A Straight Blade	15A Twist-Lock®	20A Twist-Lock®	20A Non-NEMA	30A Twist-Lock®	30A Non-NEMA
<b>A</b>	4.56" (115.9)	4.56" (115.9)	4.56" (115.9)	4.56" (115.9)	4.56" (115.9)	4.56" (115.9)
<b>B</b>	3.10" (78.7)	3.10" (78.7)	3.10" (78.7)	3.10" (78.7)	3.10" (78.7)	3.10" (78.7)
<b>C</b>	1.20" (30.6)	1.20" (30.6)	1.20" (30.6)	1.20" (30.6)	1.20" (30.6)	1.20" (30.6)
<b>D</b>	3.25" (82.6)	3.25" (82.6)	3.25" (82.6)	3.25" (82.6)	3.25" (82.6)	3.25" (82.6)
<b>E</b>	1.88" (47.6)	1.88" (47.6)	1.88" (47.6)	1.88" (47.6)	1.88" (47.6)	1.88" (47.6)
<b>F</b>	1.26" (32.0)	1.46" (37.1)	1.72" (43.7)	2.26" (57.4)	1.72" (43.7)	1.97" (50.0)
<b>G</b>	1.63" (41.4)	1.63" (41.4)	2.25" (57.2)	2.25" (57.2)	2.25" (57.2)	2.25" (57.2)
<b>H</b>	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)



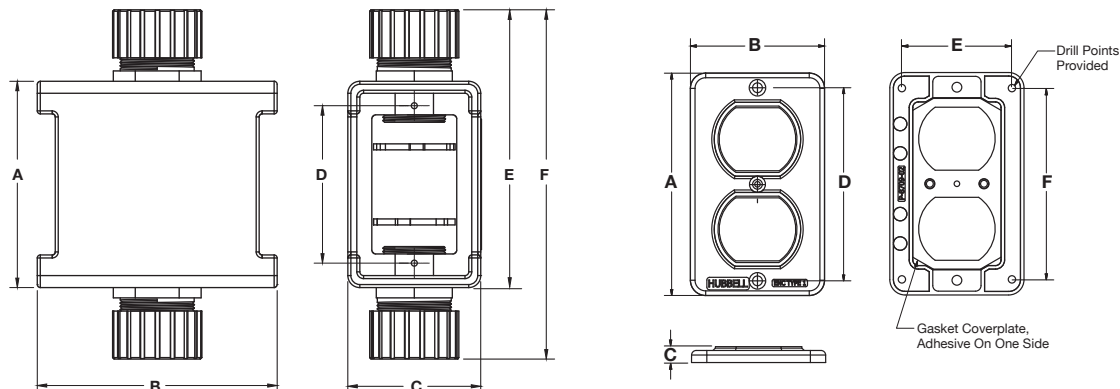
## Portable Outlet Boxes Inches (mm)

	Pre-Assembled	Configurable
<b>A</b>	4.30" (109.2)	4.30" (109.2)
<b>B</b>	5.00" (127.0)	5.00" (127.0)
<b>C</b>	2.77" (70.4)	2.77" (70.4)
<b>D</b>	3.28" (83.3)	3.28" (83.3)
<b>E</b>	5.79" (147.0)	—
<b>F</b>	7.28" (184.9)	—

## Box Covers Inches (mm)

	Covers
<b>A</b>	3.78" (96.0)
<b>B</b>	2.28" (57.9)
<b>C</b>	0.27" (6.9)
<b>D</b>	3.28" (83.3)
<b>E</b>	1.87" (47.5)
<b>F</b>	3.25" (82.6)

Note: Style shown is representative of all openings.



Dimensions in Inches (mm)

# Watertight Devices

## Materials

### Plug/Connector

Part	Materials
Blade/Contact Carrier	Nylon, white
Terminal Retainer	Polycarbonate, clear
Housing	Thermoplastic elastomer
Housing Insert	Nylon, white
Strain Relief Nut	PBT thermoplastic, gray
Blades/Contacts	Brass, nickel plated
Terminal Screws	Brass
Terminal Screw Size	#8-32 15A/20A Straight Blade and 15A Twist-Lock; #10-32 20A and 30A Twist-Lock
Assembly Screws	Stainless Steel
Bushings	Thermoplastic elastomer, black
Gotcha Ring	Nylon
Cone Seal	Thermoplastic elastomer, black
Closure Cap	Thermoplastic elastomer

### Receptacle Assembly

Part	Materials
Base, Flip Lid and Backplate	PBT
Seal Collar	Thermoplastic elastomer
Mounting Screws	Stainless Steel
Spring and Hinge Pin	Stainless Steel

### Portable Outlet Box and Accessories

Part	Materials
Box Enclosure	Thermoplastic elastomer
Strain Relief Nut	PBT
Grommet	Thermoplastic elastomer
Gotcha Ring	Nylon
Locknut	Steel, zinc plate
Threaded Inserts	Brass
Receptacle Screw	Stainless steel
Cover Plate	PBT
Cover Plate Seal	Neoprene
Cover Plate Spring	Stainless steel
Hinge Pin	Stainless steel
Hinge Bracket	Zinc plated steel
Rivets	Zinc plated steel

## Specifications

### Listings (Plug/Connector and Flip Lid Assembly)

Listed to UL498  
 Certified to CSA C22.2 No. 42  
 Meets NEMA WD-1, WD-6, and ANSI standards  
 IP66 Suitability  
 NSF Certified (Plugs, Connectors and Receptacles)

### FD Box/Adapter

Part	Materials
Box Enclosure	PBT
Ground Bracket	316 Stainless Steel
Ground Screw	Brass
Angle Adapter	PBT

### Environmental

Box	UL Type 4X (with UL Type 4X receptacle assembly) UL Type 3R (with weatherproof cover plate)
-----	--

## Performance

### Electrical

Dielectric Voltage	
Connectors:	2000V AC if rated 300V or less; 3000V AC if rated above 300V
Plugs:	2500V AC if rated 300V or less; 3500V AC if rated above 300V
Max Working Voltage	As marked
Current Interrupting	Rated for current interruption per UL498
Temperature Rise	30°C max per UL498 at rated current

### Mechanical

#### Cord and terminal accommodations:

##### Plugs and Connectors

15 and 20A Straight Blade and 15A Locking	16/3 SJ to 10/3 SJ, 18/3 S to 12/3 S, (Ø.325" to Ø625") (Ø8.3mm to Ø15.9 mm)
20A Locking Except HBL26W09 & HBL27W09	Min. Cord: 16/3 SJ, 18/3 S, 18/4 SJ, 18/4 S, 18/5 S, (Ø.325") (Ø8.3 mm) Max. Cord: 10/3 S, 10/4 S, 10/5 S (.875") (22.2 mm)
30A Locking Including HBL26W09 & HBL27W09	Min Cords: 12/3 SJ, 16/3 S, 14/4 SJ, 18/4 S, 18/5 S, (Ø.375") (Ø9.5 mm) Max Cord: 8/3 S, 8/4 S, 10/5 S (1.125") (28.6 mm)

#### Receptacles – use solid or stranded building wire or flexible cord only as outlined below:

All Straight Blade	18 AWG to 10 AWG
15A Locking	18 AWG to 10 AWG
20A and 30A Locking	18 AWG to 8 AWG

##### Portable Outlet Boxes

Cord Range	.38" to .68" (HBL3099, HBL3090F, HBL3000) and .38" to 1.00" with user-specified cord connector
Wiring Volume	19.0 in <sup>3</sup>

### Environmental

Moisture Resistance	UL Listed to 3R, 3RX, 4, 4X, 6, 6P, 12 (Plugs and connectors); 3R, 3RX, 4, 4X (Receptacles); Wet and Damp Locations (Portable outlet boxes); Covers (POB) UL Type 3R and Wet Locations cover closed
Flammability	UL94V0 (boxes, covers, and plates); UL94V2 (Plugs, connectors, and interiors); UL94HB (Caps, bushings, and cone seals) -40°C (without impact) to +60°C continuous
Operating Temperatures	All exposed materials are UV stabilized
UV Resistance	

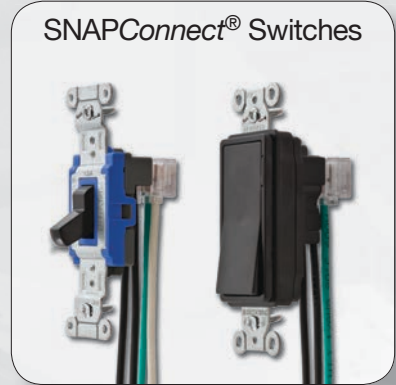


# Section D Switches

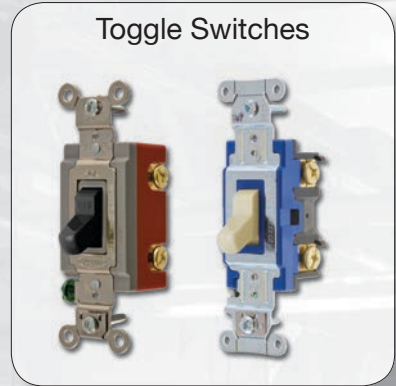
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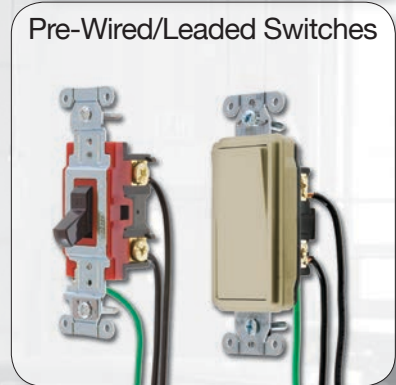
SNAPConnect® Switches



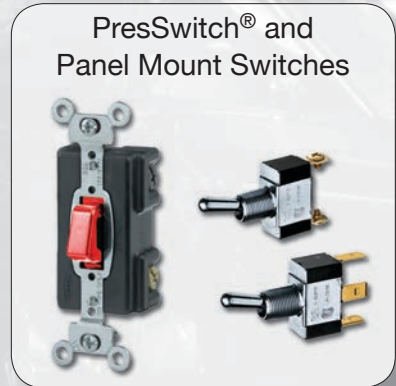
Toggle Switches



Pre-Wired/Leaded Switches



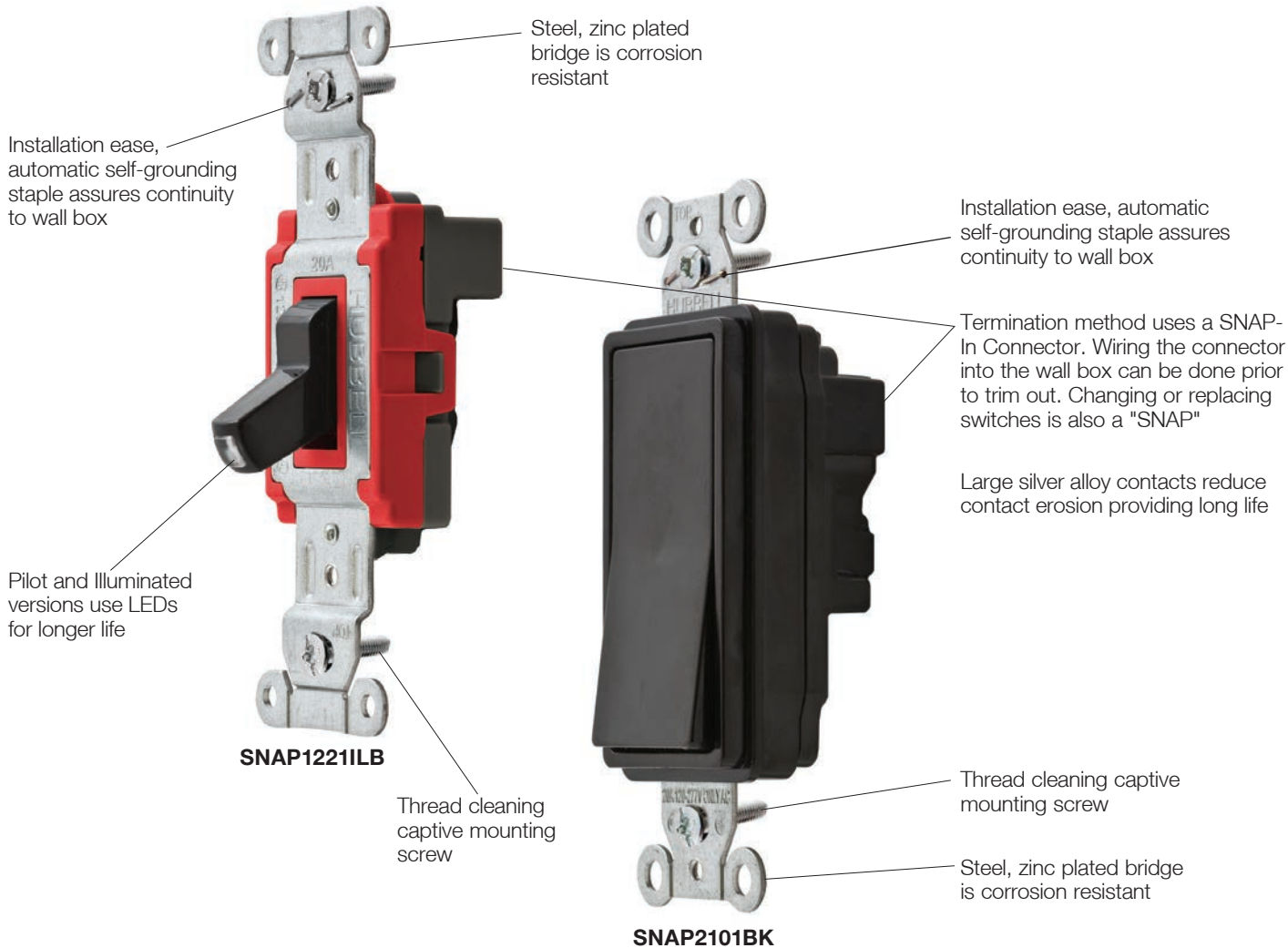
PresSwitch® and  
Panel Mount Switches





# SNAPConnect® Toggle and Decorator Series

Features and Benefits



**Many of these products are Assembled in USA, as indicated, and many are Buy American Compliant. Please contact Hubbell with any certification requirements.**



3 Wire Connector for Single Pole and Single Pole Illuminated

**SNAPSP1NA**  
**SNAPSP2NA**



4 Wire Connector for Single Pole Pilot Light Switch

**SNAPSP1NA**  
**SNAPSP2NA**



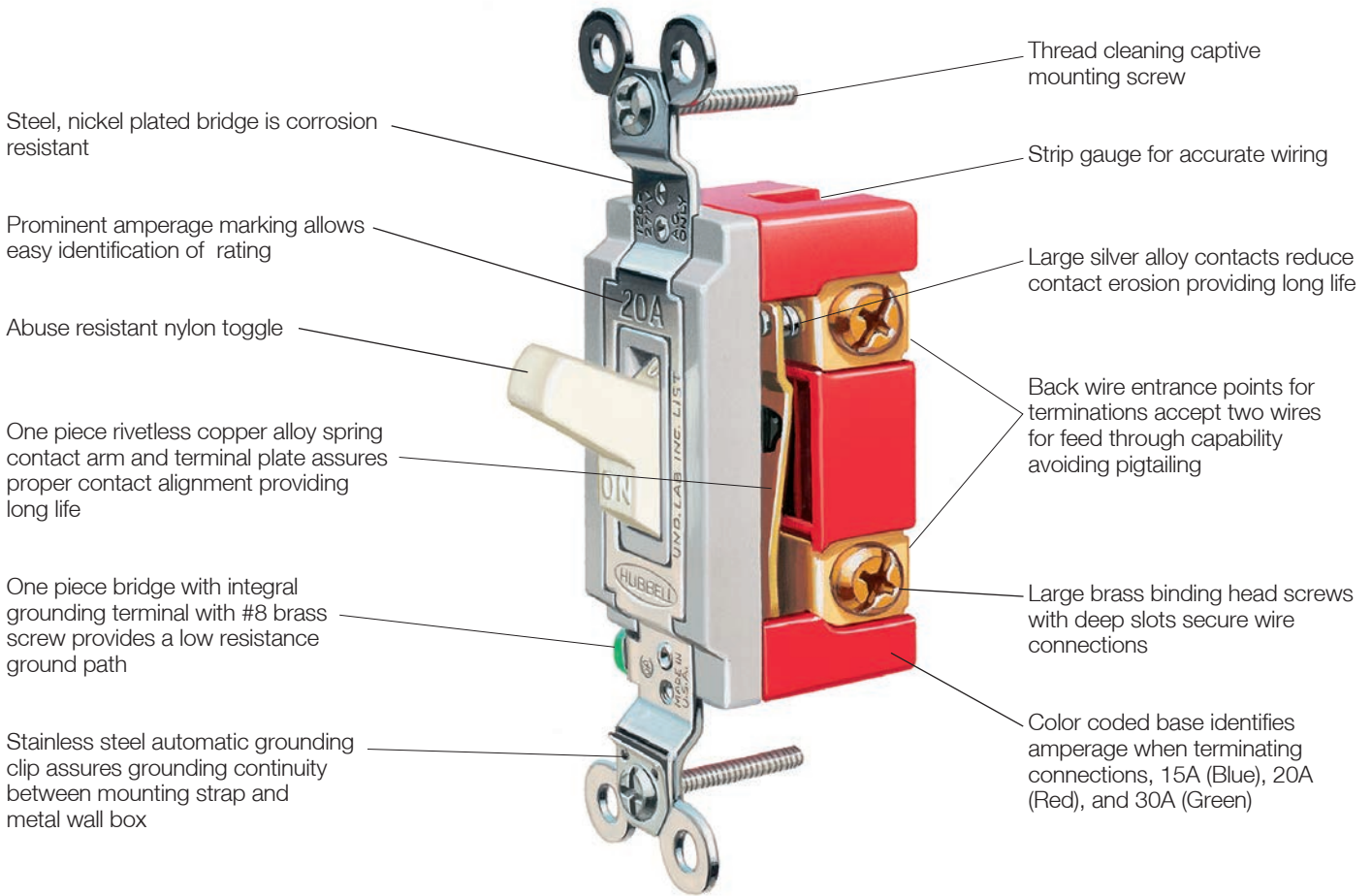
4 Wire Connector for Three Way and Three Way Illuminated

**SNAP3W1NA**  
**SNAP3W2NA**

# Switches

## HBL® Extra Heavy Duty Industrial Grade

Features and Benefits



Steel, nickel plated bridge is corrosion resistant

Prominent amperage marking allows easy identification of rating

Abuse resistant nylon toggle

One piece rivetless copper alloy spring contact arm and terminal plate assures proper contact alignment providing long life

One piece bridge with integral grounding terminal with #8 brass screw provides a low resistance ground path

Stainless steel automatic grounding clip assures grounding continuity between mounting strap and metal wall box

Thread cleaning captive mounting screw

Strip gauge for accurate wiring

Large silver alloy contacts reduce contact erosion providing long life

Back wire entrance points for terminations accept two wires for feed through capability avoiding pigtailing

Large brass binding head screws with deep slots secure wire connections

Color coded base identifies amperage when terminating connections, 15A (Blue), 20A (Red), and 30A (Green)

**HBL1221I**



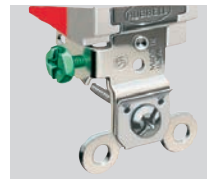
One piece rivetless copper alloy spring contact arm and terminal plate assures proper contact alignment reducing heat rise. Large silver alloy contacts reduce contact erosion and prevent welding, providing long life.



Elastomer rocker assures quiet operation and precise timing. Permanently lubricated assembly provides long life and trouble free operation.

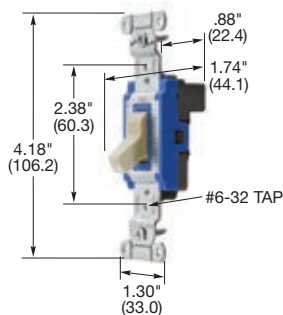


Heavy duty nylon toggle resists abuse and chemical attack making it suitable for use in the toughest environments.

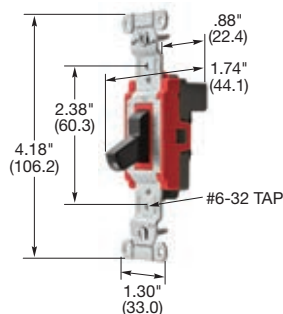


One piece integral grounding terminal with #8 brass screw allows compliance to NEC®. Stainless steel automatic self-grounding clip assures grounding continuity between mounting strap and metal wall box. Steel nickel plated mounting strap provides a corrosion resistant finish.

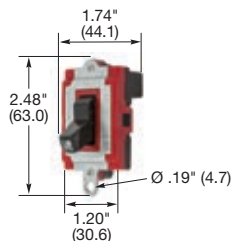
NEC® is a registered trademark of the National Fire Protection Association (NFPA).



SNAP1201INA



SNAP1221BKNA



SNAPSWJUMP



SNAPSP1NA



SNAPSP1NA

SNAP3W1NA

HP Conversion Chart

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP

Dimensions in Inches (mm)

SNAPConnect® Specification Grade Toggle Series, Assembled in USA  
15A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
SNAPConnect® Toggle.	Black	SNAP1201BKNA	—	SNAP1203BKNA	—
	Brown	SNAP1201BRNA	—	SNAP1203BRNA	—
	Gray	SNAP1201GYNA	—	SNAP1203GYNA	—
	Ivory	SNAP1201INA	—	SNAP1203INA	—
	Lt. Almond	SNAP1201LANA	—	SNAP1203LANA	—
	Red	SNAP1201RNA	—	SNAP1203RNA	—
	White	SNAP1201WNA	—	SNAP1203WNA	—

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
SNAPConnect® Toggle.	Black	SNAP1221BKNA	—	SNAP1223BKNA	—
	Brown	SNAP1221BRNA	—	SNAP1223BRNA	—
	Gray	SNAP1221GYNA	—	SNAP1223GYNA	—
	Ivory	SNAP1221INA	—	SNAP1223INA	—
	Lt. Almond	SNAP1221LANA	—	SNAP1223LANA	—
	Red	SNAP1221RNA	—	SNAP1223RNA	—
	White	SNAP1221WNA	—	SNAP1223WNA	—

Illuminated, Light On with Load Off  
15A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Illuminated, Light On with Load Off, Toggle, Blue LED.	Black	SNAP1201ILBKNA	—	SNAP1203ILBKNA	—
	Ivory	SNAP1201ILINA	—	SNAP1203ILINA	—
	Red	SNAP1201ILRNA	—	SNAP1203ILRNA	—
	White	SNAP1201ILWNA	—	SNAP1203ILWNA	—

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Illuminated, Light On with Load Off, Toggle, Blue LED.	Black	SNAP1221ILBKNA	—	SNAP1223ILBKNA	—
	Ivory	SNAP1221ILINA	—	SNAP1223ILINA	—
	Red	SNAP1221ILRNA	—	SNAP1223ILRNA	—
	White	SNAP1221ILWNA	—	SNAP1223ILWNA	—

Pilot, Light On with Load On  
15A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Pilot, Light On with Load On, Toggle, Red LED.	Black	SNAP1201PLBKNA	—	—	—
	Ivory	SNAP1201PLINA	—	—	—
	Red	SNAP1201PLRNA	—	—	—
	White	SNAP1201PLWNA	—	—	—

20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Pilot, Light On with Load On, Toggle, Red LED.	Black	SNAP1221PLBKNA	—	—	—
	Ivory	SNAP1221PLINA	—	—	—
	Red	SNAP1221PLRNA	—	—	—
	White	SNAP1221PLWNA	—	—	—

Jumper/Tester

Description	Catalog Number
Jumper/Tester for Single Pole Circuits, Black Toggle, Blue LED Indicator.	SNAPSWJUMP
Jumper/Tester for Three Way Circuits, Black Toggle, Blue LED Indicator.	SNAP3WJUMP

SNAPConnect® Switch Pigtailed Connector, Assembled in USA

Description	3 Wire Connector for Single Pole and Single Pole Illuminated	4 Wire Connector for Single Pole and with Pilot Light	4 Wire Connector for 3 Way and 3 Way Illuminated
Clear right angle terminal, 6 inch leads, solid wire.	SNAPSP1NA	SNAPSP1NA	SNAP3W1NA
Clear right angle terminal, 6 inch leads, stranded wire.	SNAPSP2NA	SNAPSP2NA	SNAP3W2NA

Note: See page D-13 for accessories.

See page D-15 for wallplates.

See page D-20 for technical information.

Many of these products are Assembled in USA, as indicated, and many are Buy American Compliant. Please contact Hubbell with any certification requirements.

**SNAPConnect® Spec. Grade Style Line® Decorator Series, Assembled in USA**  
**15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
SNAPConnect® Rocker.	Black	<b>SNAP2101BKNA</b>	—	<b>SNAP2103BKNA</b>	—
	Brown	<b>SNAP2101BRNA</b>	—	<b>SNAP2103BRNA</b>	—
	Gray	<b>SNAP2101GYNA</b>	—	<b>SNAP2103GYNA</b>	—
	Ivory	<b>SNAP2101INA</b>	—	<b>SNAP2103INA</b>	—
	Lt. Almond	<b>SNAP2101LANA</b>	—	<b>SNAP2103LANA</b>	—
	Red	<b>SNAP2101RNA</b>	—	<b>SNAP2103RNA</b>	—
	White	<b>SNAP2101WNA</b>	—	<b>SNAP2103WNA</b>	—

**20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
SNAPConnect® Rocker.	Black	<b>SNAP2121BKNA</b>	—	<b>SNAP2123BKNA</b>	—
	Brown	<b>SNAP2121BRNA</b>	—	<b>SNAP2123BRNA</b>	—
	Gray	<b>SNAP2121GYNA</b>	—	<b>SNAP2123GYNA</b>	—
	Ivory	<b>SNAP2121INA</b>	—	<b>SNAP2123INA</b>	—
	Lt. Almond	<b>SNAP2121LANA</b>	—	<b>SNAP2123LANA</b>	—
	Red	<b>SNAP2121RNA</b>	—	<b>SNAP2123RNA</b>	—
	White	<b>SNAP2121WNA</b>	—	<b>SNAP2123WNA</b>	—

**Illuminated, Light On with Load Off**
**15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Illuminated, Light On with Load Off, Rocker, Blue LED.	Black	<b>SNAP2101ILBKNA</b>	—	<b>SNAP2103ILBKNA</b>	—
	Ivory	<b>SNAP2101ILINA</b>	—	<b>SNAP2103ILINA</b>	—
	Red	<b>SNAP2101ILRNA</b>	—	<b>SNAP2103ILRNA</b>	—
	White	<b>SNAP2101ILWNA</b>	—	<b>SNAP2103ILWNA</b>	—

**20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Illuminated, Light On with Load Off, Rocker, Blue LED.	Black	<b>SNAP2121ILBKNA</b>	—	<b>SNAP2123ILBKNA</b>	—
	Ivory	<b>SNAP2121ILINA</b>	—	<b>SNAP2123ILINA</b>	—
	Red	<b>SNAP2121ILRNA</b>	—	<b>SNAP2123ILRNA</b>	—
	White	<b>SNAP2121ILWNA</b>	—	<b>SNAP2123ILWNA</b>	—

**Pilot, Light On with Load On**
**15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Pilot, Light On with Load On, Rocker, Red LED.	Black	<b>SNAP2101PLBKNA</b>	—	—	—
	Ivory	<b>SNAP2101PLINA</b>	—	—	—
	Red	<b>SNAP2101PLRNA</b>	—	—	—
	White	<b>SNAP2101PLWNA</b>	—	—	—

**20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Pilot, Light On with Load On, Rocker, Red LED.	Black	<b>SNAP2121PLBKNA</b>	—	—	—
	Ivory	<b>SNAP2121PLINA</b>	—	—	—
	Red	<b>SNAP2121PLRNA</b>	—	—	—
	White	<b>SNAP2121PLWNA</b>	—	—	—

**Jumper/Tester**

Description	Catalog Number
Jumper/Tester for Single Pole Circuits, Black Toggle, Blue LED Indicator.	<b>SNAPSWJUMP</b>
Jumper/Tester for Three Way Circuits, Black Toggle, Blue LED Indicator.	<b>SNAP3WJUMP</b>

**SNAPConnect® Switch Pigtailed Connector, Assembled in USA**

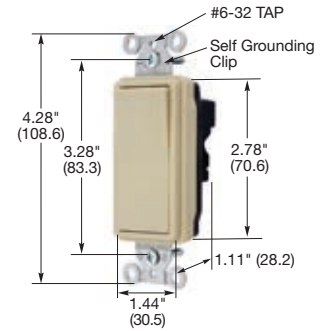
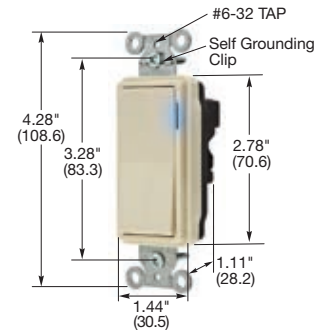
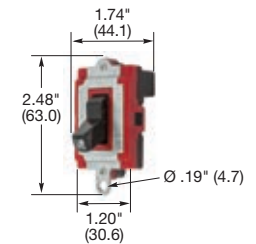
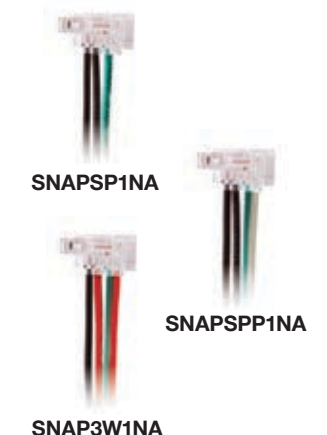
Description	3 Wire Connector for Single Pole and Single Pole Illuminated	4 Wire Connector for Single Pole with Pilot Light	4 Wire Connector for 3 Way and 3 Way Illuminated
Clear right angle terminal, 6 inch leads, solid wire.	<b>SNAPSP1NA</b>	<b>SNAPSP1NA</b>	<b>SNAP3W1NA</b>
Clear right angle terminal, 6 inch leads, stranded wire.	<b>SNAPSP2NA</b>	<b>SNAPSP2NA</b>	<b>SNAP3W2NA</b>

Note: See page D-13 for accessories.

See page D-15 for wallplates.

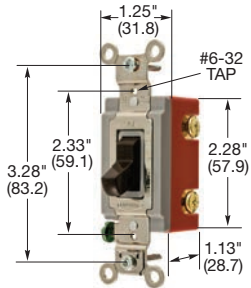
See page D-20 for technical information.

**Many of these products are Assembled in USA, as indicated, and many are Buy American Compliant. Please contact Hubbell with any certification requirements.**

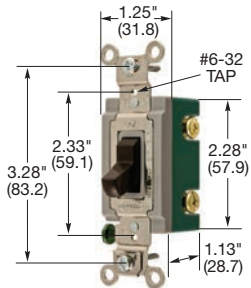

**SNAP2101INA**

**SNAP2121ILINA**

**SNAPSWJUMP**

**HP Conversion Chart**

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP

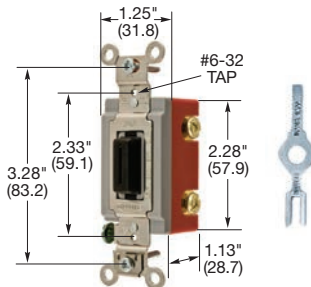
Dimensions in Inches (mm)



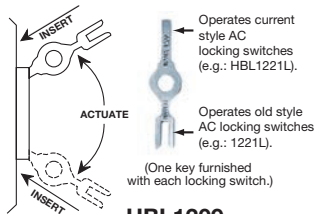
HBL1221



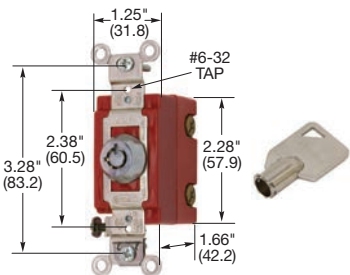
HBL3031



HBL1221L and Key



HBL1209



HBL1222RKL and Key

Dimensions in Inches (mm)

**HBL Extra Heavy Duty Industrial Series, Back and Side Wired**  
**15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Black	<b>HBL1201BK</b>	—	<b>HBL1203BK</b>	<b>HBL1204BK</b>
	Brown	<b>HBL1201</b>	<b>HBL1202</b>	<b>HBL1203</b>	<b>HBL1204</b>
	Gray	<b>HBL1201GY</b>	—	<b>HBL1203GY</b>	<b>HBL1204GY</b>
	Ivory	<b>HBL1201I</b>	<b>HBL1202I</b>	<b>HBL1203I</b>	<b>HBL1204I</b>
	Light Almond	<b>HBL1201LA</b>	—	—	—
	Red	<b>HBL1201R</b>	—	—	—
	White	<b>HBL1201W</b>	—	<b>HBL1203W</b>	<b>HBL1204W</b>

**20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Black	<b>HBL1221BK</b>	<b>HBL1222BK</b>	<b>HBL1223BK</b>	<b>HBL1224BK</b>
	Brown	<b>HBL1221</b>	<b>HBL1222</b>	<b>HBL1223</b>	<b>HBL1224</b>
	Gray	<b>HBL1221GY</b>	<b>HBL1222GY</b>	<b>HBL1223GY</b>	<b>HBL1224GY</b>
	Ivory	<b>HBL1221I</b>	<b>HBL1222I</b>	<b>HBL1223I</b>	<b>HBL1224I</b>
	Light Almond	<b>HBL1221LA</b>	<b>HBL1222LA</b>	<b>HBL1223LA</b>	<b>HBL1224LA</b>
	Office White	<b>HBL1221OW</b>	<b>HBL1222OW</b>	<b>HBL1223OW</b>	<b>HBL1224OW</b>
	Red	<b>HBL1221R</b>	<b>HBL1222R</b>	<b>HBL1223R</b>	<b>HBL1224R</b>
	White	<b>HBL1221W</b>	<b>HBL1222W</b>	<b>HBL1223W</b>	<b>HBL1224W</b>

**30A, 120-277V AC**

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle.	Brown	<b>HBL3031</b>	<b>HBL3032</b>	<b>HBL3033</b>	—
	Ivory	<b>HBL3031I</b>	<b>HBL3032I</b>	<b>HBL3033I</b>	—
	White	—	<b>HBL3032W</b>	—	—

**HBL Extra Heavy Duty Industrial Locking Series, Back and Side Wired**  
**15A, 120-277V AC**

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Key Guide, back and side wired.	Black	<b>HBL1201L</b>	<b>HBL1202L</b>	<b>HBL1203L</b>	<b>HBL1204L</b>
	Gray	<b>HBL1201LG</b>	<b>HBL1202LG</b>	<b>HBL1203LG</b>	<b>HBL1204LG</b>
	Ivory	<b>HBL1201LI</b>	<b>HBL1202LI</b>	<b>HBL1203LI</b>	<b>HBL1204LI</b>
	White	<b>HBL1201LW</b>	<b>HBL1202LW</b>	<b>HBL1203LW</b>	<b>HBL1204LW</b>

Key for Locking switch. **HBL1209\***

**20A, 120-277V AC**

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Key Guide, back and side wired.	Black	<b>HBL1221L</b>	<b>HBL1222L</b>	<b>HBL1223L</b>	<b>HBL1224L</b>
	Gray	<b>HBL1221LG</b>	<b>HBL1222LG</b>	<b>HBL1223LG</b>	<b>HBL1224LG</b>
	Ivory	<b>HBL1221LI</b>	<b>HBL1222LI</b>	<b>HBL1223LI</b>	<b>HBL1224LI</b>
	White	<b>HBL1221LW</b>	<b>HBL1222LW</b>	<b>HBL1223LW</b>	<b>HBL1224LW</b>

Key for Locking switch. **HBL1209\***

**HBL Extra Heavy Duty Industrial AC Barrel Key Locking Switch†, Back and Side Wired**  
**20A, 120-277V AC**

Description	Key Guide Color	Single Pole	Double Pole	Three Way	Four Way
Chrome operator, back and side wired.	Chrome	<b>HBL1221RK**</b>	<b>HBL1222RK**</b>	<b>HBL1223RK**</b>	<b>HBL1224RK**</b>
Replacement Barrel Key.		<b>HBL1209RKL*</b>			

Note: Keys are supplied with each locking switch. For extra keys order HBL1209.

\*Not UL Listed, CSA Certified.

\*\*Not Fed. Spec.

† See Wallplate section, page N-17 for wallplates.

See page D-13 for accessories.

See page D-15 for wallplates.

See page D-20 for technical information.

**HP Conversion Chart**

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP



# Switches

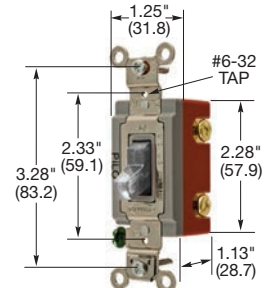
## 15, 20 and 30 Ampere, 120-277 and 347 Volts AC

HBL® Extra Heavy Duty Industrial Series



### HBL Extra Heavy Duty Industrial Series, Illuminated Toggle Switches, Light On with Load Off, Back and Side Wired

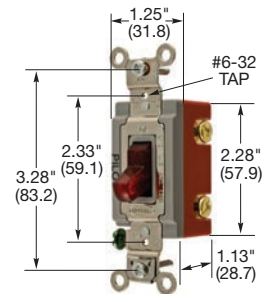
Description	Toggle Color	Rating	Single Pole	Double Pole	Three Way
Nylon toggle, back and side wired.	Ivory	15A 120-277V AC	<b>HBL1201IL</b>	—	<b>HBL1203IL</b>
	Ivory	20A 120-277V AC	<b>HBL1221IL</b>	—	<b>HBL1223IL</b>
	Clear		<b>HBL1221ILC</b>	—	<b>HBL1223ILC</b>
	Red		<b>HBL1221ILR</b>	—	—



**HBL1221ILC**

### HBL Extra Heavy Duty Industrial Series, Pilot Light Switches, Light On with Load On, Back and Side Wired

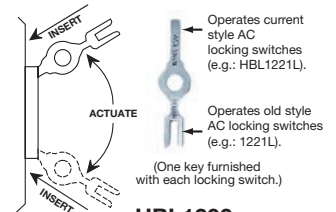
Description	Toggle Color	Rating	Single Pole	Double Pole	Three Way
Nylon toggle, back and side wired.	Red	15A 120-277V AC	<b>HBL1201PL</b>	—	<b>HBL1203PL</b>
	Red	20A 120-277V AC	<b>HBL1221PL</b>	<b>HBL1222PL</b>	<b>HBL1223PL</b>
	Clear		<b>HBL1221PLC</b>	—	<b>HBL1223PLC</b>
	Green		<b>HBL1221PLG</b>	—	—
	Red	30A 120-277V AC	<b>HBL3031PL</b>	<b>HBL3032PL</b>	—



**HBL1221PL**

### Momentary Contact, Specification Grade, Three Position, Two Circuit, Center Off, Back and Side Wired

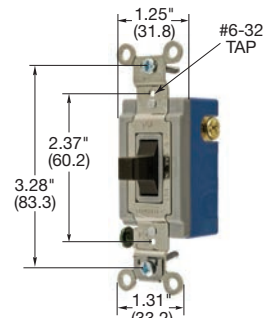
Description	Toggle Color	15A, 120-277V AC	20A, 120-277V AC
Nylon toggle, back and side wired.	Brown	<b>HBL1556</b>	<b>HBL1557</b>
	Gray	<b>HBL1556GY</b>	<b>HBL1557GY</b>
	Ivory	<b>HBL1556I</b>	<b>HBL1557I</b>
	Red	<b>HBL1556R</b>	—
	White	<b>HBL1556W</b>	<b>HBL1557W</b>
Key guide, back and side wired.	Black	<b>HBL1556L</b>	<b>HBL1557L</b>
	Gray	<b>HBL1556LG</b>	<b>HBL1557LG</b>
	Ivory	<b>HBL1556LI</b>	<b>HBL1557LI</b>
	White	<b>HBL1556LW</b>	<b>HBL1557LW</b>
Key for Locking switch.	<b>HBL1209*</b>		



**HBL1209**

### Maintained Contact, Specification Grade, Three Position, Two Circuit, Center Off, Single Pole, Double Throw

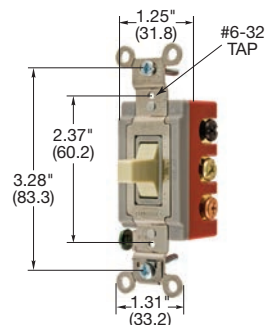
Description	Toggle Color	15A 120-277V AC	20A 120-277V AC	30A 120-277V AC
Nylon toggle, back and side wired.	Brown	<b>HBL1381</b>	<b>HBL1385</b>	—
	Ivory	<b>HBL1381I</b>	<b>HBL1385I</b>	—
	White	—	<b>HBL1385W</b>	—



**HBL1381**

### Three Position, Two Circuit, Center Off, Double Pole, Double Throw

Description	Toggle Color	15A 120-277V AC	20A 120-277V AC	30A 120-277V AC
Nylon toggle, back and side wired.	Brown	<b>HBL1382</b>	<b>HBL1386</b>	<b>HBL1388</b>
	Ivory	<b>HBL1382I</b>	<b>HBL1386I</b>	<b>HBL1388I</b>
Locking.		—	<b>HBL1386L</b>	—
Key for Locking switch.		—	<b>HBL1209*</b>	—



**HBL1386I**

Note: Keys are supplied with each locking switch. For extra keys order HBL1209.

\*Not UL Listed, CSA Certified.

See page D-13 for accessories.

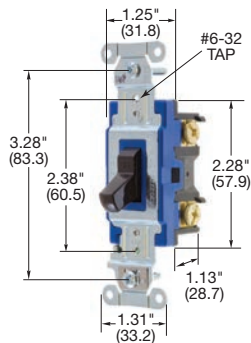
See page D-15 for wallplates.

See page D-20 for technical information.

#### HP Conversion Chart

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP

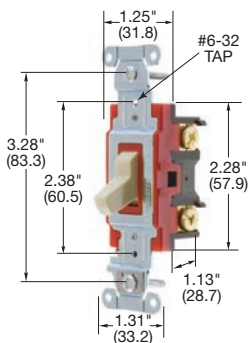
Dimensions in Inches (mm)



1201BK

**Hubbell-PRO Heavy Duty Industrial Series, 15A, 120-277V AC**

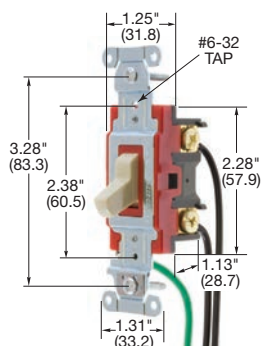
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	1201AL	—	1203AL	—
	Black	1201BK	—	1203BK	—
	Brown	1201B	—	1203B	—
	Gray	1201GY	—	1203GY	—
	Ivory	1201I	—	1203I	—
	Light Almond	1201LA	—	1203LA	—
	White	1201W	—	1203W	—



1221I

**Hubbell-PRO Heavy Duty Industrial Series, 20A, 120-277V AC**

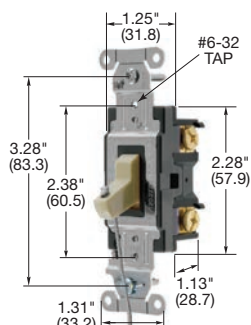
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	1221AL	1222AL	1223AL	1224AL
	Black	1221BK	1222BK	1223BK	1224BK
	Brown	1221B	1222B	1223B	1224B
	Gray	1221GY	1222GY	1223GY	1224GY
	Ivory	1221I	1222I	1223I	1224I
	Light Almond	1221LA	1222LA	1223LA	1224LA
	Red	1221R	1222R	1223R	1224R
	White	1221W	1222W	1223W	1224W



1221PWI

**Hubbell-PRO Pre-Wired/Leaded Heavy Duty Industrial Series 20A, 120-277V AC - 8" #12 AWG THHN**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Pre-wired leads.	Almond	1221PWAL	1222PWAL	1223PWAL	1224PWAL
	Black	1221PWBK	1222PWBK	1223PWBK	1224PWBK
	Brown	1221PWB	1222PWB	1223PWB	1224PWB
	Gray	1221PWGY	1222PWGY	1223PWGY	1224PWGY
	Ivory	1221PWI	1222PWI	1223PWI	1224PWI
	Light Almond	1221PWLA	1222PWLA	1223PWLA	1224PWLA
	Red	1221PWR	1222PWR	1223PWR	1224PWR
	White	1221PWW	1222PWW	1223PWW	1224PWW



HBL1221IHCS

**Hubbell-PRO Hospital Call Switch, with Lanyard 20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Gray	HBL1221GHCS	—	—	—
	Ivory	HBL1221IHCS	—	—	—
	White	HBL1221WHCS	—	—	—

Note: See page D-13 for accessories.  
See page D-15 for wallplates.  
See page D-20 for technical information.

Dimensions in Inches (mm)

**HP Conversion Chart**

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP

# Switches

## 15 and 20 Ampere, 120-277 Volts AC

Pre-Wired/Leaded Toggle and Decorator Series

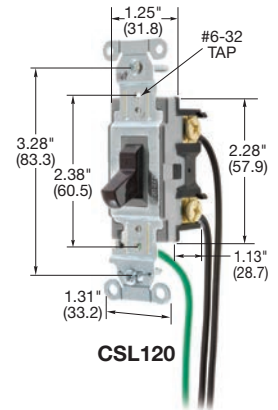
### Pre-Wired/Leaded Toggle Series Specification Grade 15A, 120-277V AC - 8" #12 AWG THHN



Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Nylon, Pre-wired leads.	Almond	<b>CSL115AL</b>	<b>CSL215AL</b>	<b>CSL315AL</b>	<b>CSL415AL</b>
	Black	<b>CSL115BK</b>	<b>CSL215BK</b>	<b>CSL315BK</b>	<b>CSL415BK</b>
	Brown	<b>CSL115</b>	<b>CSL215</b>	<b>CSL315</b>	<b>CSL415</b>
	Gray	<b>CSL115GY</b>	<b>CSL215GY</b>	<b>CSL315GY</b>	<b>CSL415GY</b>
	Ivory	<b>CSL115I</b>	<b>CSL215I</b>	<b>CSL315I</b>	<b>CSL415I</b>
	Light Almond	<b>CSL115LA</b>	<b>CSL215LA</b>	<b>CSL315LA</b>	<b>CSL415LA</b>
	Office White	<b>CSL115OW</b>	<b>CSL215OW</b>	<b>CSL315OW</b>	<b>CSL415OW</b>
	White	<b>CSL115W</b>	<b>CSL215W</b>	<b>CSL315W</b>	<b>CSL415W</b>

### 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, Nylon, Pre-wired leads.	Almond	<b>CSL120AL</b>	<b>CSL220AL</b>	<b>CSL320AL</b>	<b>CSL420AL</b>
	Black	<b>CSL120BK</b>	<b>CSL220BK</b>	<b>CSL320BK</b>	<b>CSL420BK</b>
	Brown	<b>CSL120</b>	<b>CSL220</b>	<b>CSL320</b>	<b>CSL420</b>
	Gray	<b>CSL120GY</b>	<b>CSL220GY</b>	<b>CSL320GY</b>	<b>CSL420GY</b>
	Ivory	<b>CSL120I</b>	<b>CSL220I</b>	<b>CSL320I</b>	<b>CSL420I</b>
	Light Almond	<b>CSL120LA</b>	<b>CSL220LA</b>	<b>CSL320LA</b>	<b>CSL420LA</b>
	Office White	<b>CSL120OW</b>	<b>CSL220OW</b>	<b>CSL320OW</b>	<b>CSL420OW</b>
	Red	<b>CSL120R</b>	<b>CSL220R</b>	<b>CSL320R</b>	<b>CSL420R</b>
	White	<b>CSL120W</b>	<b>CSL220W</b>	<b>CSL320W</b>	<b>CSL420W</b>



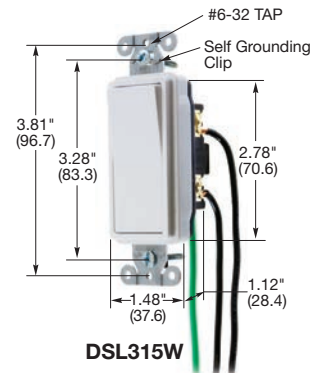
### Pre-Wired/Leaded Decorator Series Specification Grade 15A, 120-277V AC - 8" #12 AWG THHN



Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads.	Almond	<b>DSL115AL</b>	—	<b>DSL315AL</b>	—
	Black	<b>DSL115BK</b>	—	<b>DSL315BK</b>	—
	Brown	<b>DSL115</b>	—	<b>DSL315</b>	—
	Gray	<b>DSL115GY</b>	—	<b>DSL315GY</b>	—
	Ivory	<b>DSL115I</b>	—	<b>DSL315I</b>	—
	Light Almond	<b>DSL115LA</b>	—	<b>DSL315LA</b>	—
	Office White	<b>DSL115OW</b>	—	<b>DSL315OW</b>	—
	White	<b>DSL115W</b>	—	<b>DSL315W</b>	—

### 20A, 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads.	Almond	<b>DSL120AL</b>	<b>DSL220AL</b>	<b>DSL320AL</b>	<b>DSL420AL</b>
	Black	<b>DSL120BK</b>	<b>DSL220BK</b>	<b>DSL320BK</b>	<b>DSL420BK</b>
	Brown	<b>DSL120</b>	<b>DSL220</b>	<b>DSL320</b>	<b>DSL420</b>
	Gray	<b>DSL120GY</b>	<b>DSL220GY</b>	<b>DSL320GY</b>	<b>DSL420GY</b>
	Ivory	<b>DSL120I</b>	<b>DSL220I</b>	<b>DSL320I</b>	<b>DSL420I</b>
	Light Almond	<b>DSL120LA</b>	<b>DSL220LA</b>	<b>DSL320LA</b>	<b>DSL420LA</b>
	Office White	<b>DSL120OW</b>	<b>DSL220OW</b>	<b>DSL320OW</b>	<b>DSL420OW</b>
	White	<b>DSL120W</b>	<b>DSL220W</b>	<b>DSL320W</b>	<b>DSL420W</b>



### Illuminated, Light On with Load Off 20A, 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads, Blue LED.	Ivory	<b>DSL120IL</b>	—	<b>DSL320IL</b>	—
	White	<b>DSL120ILW</b>	—	<b>DSL320ILW</b>	—

### Pilot, Light On with Load On 20A, 120-277V AC

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, Polycarbonate, Pre-wired leads, Red LED.	Red	<b>DSL120PL</b>	—	—	—

Note: See page D-13 for accessories.  
See page D-15 for wallplates.  
See page D-20 for technical information.

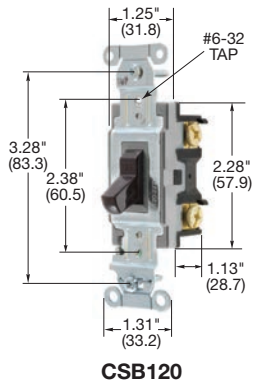
### HP Conversion Chart

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP

Dimensions in Inches (mm)

**Specification Grade Commercial Series,  
15A, 120-277V AC**

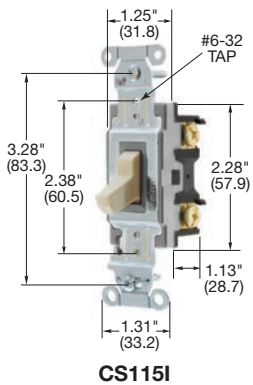
Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	<b>CSB115AL</b>	<b>CSB215AL</b>	<b>CSB315AL</b>	<b>CSB415AL</b>
	Black	<b>CSB115BK</b>	<b>CSB215BK</b>	<b>CSB315BK</b>	<b>CSB415BK</b>
	Brown	<b>CSB115</b>	<b>CSB215</b>	<b>CSB315</b>	<b>CSB415</b>
	Gray	<b>CSB115GY</b>	<b>CSB215GY</b>	<b>CSB315GY</b>	<b>CSB415GY</b>
	Ivory	<b>CSB115I</b>	<b>CSB215I</b>	<b>CSB315I</b>	<b>CSB415I</b>
	Light Almond	<b>CSB115LA</b>	<b>CSB215LA</b>	<b>CSB315LA</b>	<b>CSB415LA</b>
	White	<b>CSB115W</b>	<b>CSB215W</b>	<b>CSB315W</b>	<b>CSB415W</b>


**Specification Grade Commercial Series,  
20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, back and side wired.	Almond	<b>CSB120AL</b>	<b>CSB220AL</b>	<b>CSB320AL</b>	<b>CSB420AL</b>
	Black	<b>CSB120BK</b>	<b>CSB220BK</b>	<b>CSB320BK</b>	<b>CSB420BK</b>
	Brown	<b>CSB120</b>	<b>CSB220</b>	<b>CSB320</b>	<b>CSB420</b>
	Gray	<b>CSB120GY</b>	<b>CSB220GY</b>	<b>CSB320GY</b>	<b>CSB420GY</b>
	Ivory	<b>CSB120I</b>	<b>CSB220I</b>	<b>CSB320I</b>	<b>CSB420I</b>
	Light Almond	<b>CSB120LA</b>	<b>CSB220LA</b>	<b>CSB320LA</b>	<b>CSB420LA</b>
	Red	<b>CSB120R</b>	<b>CSB220R</b>	<b>CSB320R</b>	<b>CSB420R</b>
	White	<b>CSB120W</b>	<b>CSB220W</b>	<b>CSB320W</b>	<b>CSB420W</b>

**Specification Grade Commercial Series,  
15A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, side wired only.	Almond	<b>CS115AL</b>	—	<b>CS315AL</b>	—
	Black	<b>CS115BK</b>	—	<b>CS315BK</b>	—
	Brown	<b>CS115</b>	—	<b>CS315</b>	—
	Gray	<b>CS115GY</b>	—	<b>CS315GY</b>	—
	Ivory	<b>CS115I</b>	—	<b>CS315I</b>	—
	Light Almond	<b>CS115LA</b>	—	<b>CS315LA</b>	—
	White	<b>CS115W</b>	—	<b>CS315W</b>	—


**Specification Grade Commercial Series,  
20A, 120-277V AC**

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Toggle, side wired only.	Almond	<b>CS120AL</b>	—	<b>CS320AL</b>	—
	Black	<b>CS120BK</b>	—	<b>CS320BK</b>	—
	Brown	<b>CS120</b>	—	<b>CS320</b>	—
	Gray	<b>CS120GY</b>	—	<b>CS320GY</b>	—
	Ivory	<b>CS120I</b>	—	<b>CS320I</b>	—
	Light Almond	<b>CS120LA</b>	—	<b>CS320LA</b>	—
	White	<b>CS120W</b>	—	<b>CS320W</b>	—

Note: See page D-9 for pre-wired/leaded devices.  
 See page D-13 for accessories.  
 See page D-15 for wallplates.  
 See page D-20 for technical information.

**HP Conversion Chart**

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP

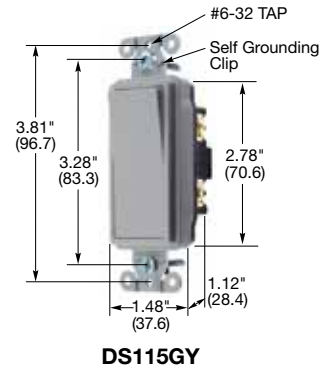
Dimensions in Inches (mm)

**Style Line® Decorator Series Specification Grade,  
15A, 120-277V AC**

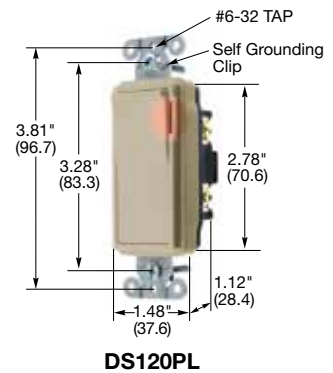
Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, back and side wired.	Almond	<b>DS115AL</b>	—	<b>DS315AL</b>	—
	Black	<b>DS115BK</b>	—	<b>DS315BK</b>	—
	Brown	<b>DS115</b>	—	<b>DS315</b>	—
	Gray	<b>DS115GY</b>	—	<b>DS315GY</b>	—
	Ivory	<b>DS115I</b>	—	<b>DS315I</b>	—
	Light Almond	<b>DS115LA</b>	—	<b>DS315LA</b>	—
	Office White	<b>DS115OW</b>	—	<b>DS315OW</b>	—
	White	<b>DS115W</b>	—	<b>DS315W</b>	—

**Style Line® Decorator Series Specification Grade,  
20A, 120-277V AC**

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, back and side wired.	Almond	<b>DS120AL</b>	<b>DS220AL</b>	<b>DS320AL</b>	<b>DS420AL</b>
	Black	<b>DS120BK</b>	<b>DS220BK</b>	<b>DS320BK</b>	<b>DS420BK</b>
	Brown	<b>DS120</b>	<b>DS220B</b>	<b>DS320</b>	<b>DS420</b>
	Gray	<b>DS120GY</b>	<b>DS220GY</b>	<b>DS320GY</b>	<b>DS420GY</b>
	Ivory	<b>DS120I</b>	<b>DS220I</b>	<b>DS320I</b>	<b>DS420I</b>
	Light Almond	<b>DS120LA</b>	<b>DS220LA</b>	<b>DS320LA</b>	<b>DS420LA</b>
	Office White	<b>DS120OW</b>	<b>DS220OW</b>	<b>DS320OW</b>	<b>DS420OW</b>
	Red	<b>DS120R</b>	<b>DS220R</b>	<b>DS320R</b>	<b>DS420R</b>
	White	<b>DS120W</b>	<b>DS220W</b>	<b>DS320W</b>	<b>DS420W</b>


**Style Line® Decorator Series Specification Grade,  
Illuminated, Light On with Load Off  
20A, 120-277V AC**

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, with Blue LED, back and side wired.	Black	<b>DS120ILBK</b>	—	<b>DS320ILBK</b>	—
	Ivory	<b>DS120IL</b>	—	<b>DS320IL</b>	—
	White	<b>DS120ILW</b>	—	<b>DS320ILW</b>	—


**Style Line® Decorator Series Specification Grade,  
Pilot, Light On with Load On  
20A, 120-277V AC**

Description	Rocker Color	Single Pole	Double Pole	Three Way	Four Way
Rocker, with Red LED, back and side wired.	Black	<b>DS120PLBK</b>	—	—	—
	Ivory	<b>DS120PL</b>	—	—	—
	White	<b>DS120PLW</b>	—	—	—

Note: See page D-9 for pre-wired/leaded devices.

See page D-13 for accessories.

See page D-15 for wallplates.

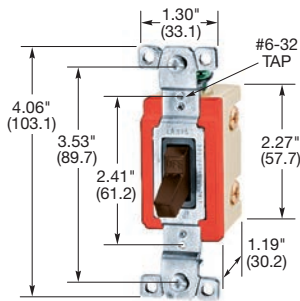
See page D-20 for technical information.

**HP Conversion Chart**

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP

Dimensions in Inches (mm)





HBL18221CN

### HBL® Extra Heavy Duty Industrial Series 15A, 347V AC

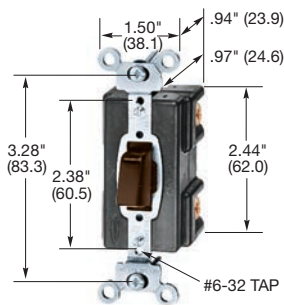


Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle, back and side wired.	Brown	<b>HBL18201CN</b>	—	<b>HBL18203CN</b>	—
	Ivory	<b>HBL18201ICN</b>	—	<b>HBL18203ICN</b>	<b>HBL18204ICN</b>
Locking.		<b>HBL18201LCN</b>	—	<b>HBL18203LCN</b>	—
Key for Locking switch.		<b>HBL1209*</b>			

### HBL® Extra Heavy Duty Industrial Series 20A, 347V AC



Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon toggle, back and side wired.	Brown	<b>HBL18221CN</b>	—	<b>HBL18223CN</b>	—
	Ivory	<b>HBL18221ICN</b>	—	<b>HBL18223ICN</b>	<b>HBL18224ICN</b>



HBL1281

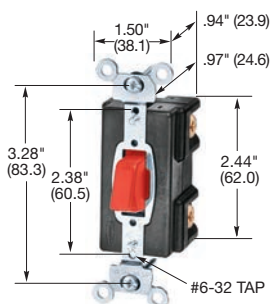
### PresSwitch® Specification Grade Push Button, Standard Type 20A, 120-277V AC



Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon actuator, side wired only.	Brown	<b>HBL1281</b>	<b>HBL1282</b>	<b>HBL1283*</b>	<b>HBL1284*</b>
	Ivory	<b>HBL1281I</b>	<b>HBL1282I</b>	<b>HBL1283I*</b>	<b>HBL1284I*</b>

### Momentary Type® 20A, 120-277V AC

Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Circuit normally closed, side wired only.	Brown	<b>HBL1281MC*</b>	—	—	—
Circuit normally open, side wired only.	Brown	<b>HBL1281MO*</b>	—	—	—



HBL1297

### Illuminated and Pilot Light PresSwitch®, 120V AC Lighted Actuator, Light On with Load Off•



Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
15A, nylon actuator.	Ivory	—	—	—	<b>HBL1259I*</b>
20A, nylon actuator.	Ivory	<b>HBL1287I</b>	—	<b>HBL1288I*</b>	—

### Pilot Light Actuator, Light On with Load On 20A, 120V AC



Description	Toggle Color	Single Pole	Double Pole	Three Way	Four Way
Nylon actuator.	Red	<b>HBL1297</b>	—	<b>HBL1298*</b>	—

Note: Keys are supplied with each locking switch. For extra keys order HBL1209.

\*Not UL Listed, CSA Certified.

•Not HP rated.

See page D-13 for accessories.

See page D-15 for wallplates.

See page D-20 for technical information.

#### HP Conversion Chart

	120V	208V	240V	277V AC
15A	.5HP	1.5HP	2HP	2HP
20A	1HP	2HP	2HP	2HP
30A	2HP	2HP	2HP	2HP

Dimensions in Inches (mm)

# Switches Accessories

Pilot Light, SWITCHOUT® Lockout Device and Weatherproof Switch Plates for Toggle Switches

## Pilot Light, 120-277V AC

Description	Catalog Number
Red neon pilot light, back and side wired, fits standard switch plate.	<b>HBL1220RJ</b>

**IP44**  
SUITABILITY



**HBL1220RJ**

## Brass Locking Attachment for Switches Available in Master Keying and Straight Keying Systems

Description	Catalog Number
Straight keying (all locks alike). Appropriate for most applications. Straight cylinder type lock, each HBL96061 ordered operates on the same key. All locks are keyed alike.	<b>HBL96061*</b>
Same as above except in dull chrome finish to match stainless steel plates.	<b>HBL96061DCH*</b>



**HBL96061**  
shown with wallplate and  
switch (sold separately)

Description	Catalog Number
Straight keying (individual). Straight cylinder type lock, each HBL96062 ordered operates on a different key. All locks are keyed differently and individually. This type cannot be master keyed.	<b>HBL96062*</b>

## SWITCHOUT® Lockout Device

Description	Catalog Number
Yellow, nylon toggle switch lockout device (Two devices per package).	<b>HSLDPK2*</b>

## Weatherproof Plates

Description	Catalog Number
Clear bubble plate, silicone rubber for use with all general purpose AC toggle and PresSwitch® switches. Fits both FS/FD and standard boxes.	<b>HBL1795</b>
Cast aluminum lift cover plate with fiber shield. For standard toggle and PresSwitch®. Fits only FS/FD boxes.	<b>HBL7420</b>



**HSLDPK2**

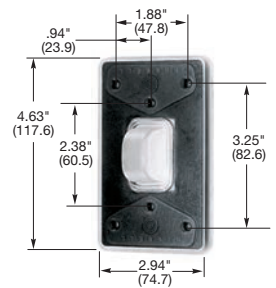
## Weatherproof Plates for PresSwitch®

Description	Catalog Number
Gray neoprene PresSwitch® plate. Fits FS/FD and standard boxes.	<b>HBL1750</b>
Same as above except yellow.	<b>HBL17CM50</b>
Gray neoprene PresSwitch® plate with 125V red pilot light. Fits only FS/FD boxes.	<b>HBL1785</b>
Same as above except yellow.	<b>HBL17CM85</b>

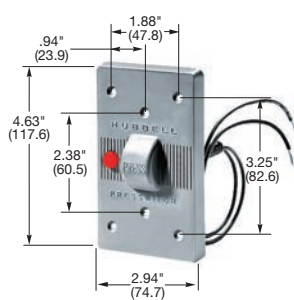


Note: \*Not UL Listed or CSA Certified.

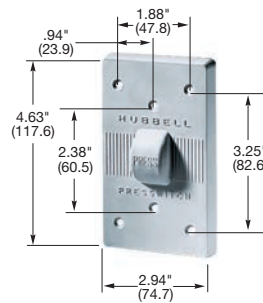
Each locking wallplate is supplied with two keys.  
See section Z for additional information on safety lockout devices.  
See section N for additional wallplates.



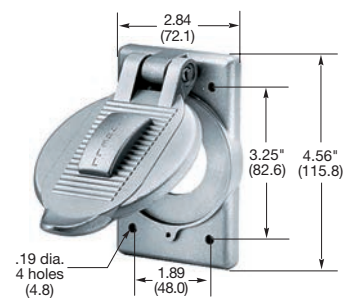
**HBL1795**



**HBL1785**



**HBL1750**



**HBL7420**

Dimensions in Inches (mm)

# Switches Certification Chart

## UL, CSA, and Fed. Spec. Listing Data

Catalog Number	WS896 Listed	UL Listed UL20	CSA Certified	Catalog Number	WS896 Listed	UL Listed UL20	CSA Certified
1201	Yes	Yes	Yes	HBL1224	Yes	Yes	Yes
1203	Yes	Yes	Yes	HBL1221L	Yes	Yes	Yes
1221	Yes	Yes	Yes	HBL1222L	Yes	Yes	Yes
1222	Yes	Yes	Yes	HBL1223L	Yes	Yes	Yes
1223	Yes	Yes	Yes	HBL1224L	Yes	Yes	Yes
1224	Yes	Yes	Yes	HBL1221IL	Yes	Yes	Yes
1221PW	Yes	Yes	Yes	HBL1223IL	Yes	Yes	Yes
1222PW	Yes	Yes	Yes	HBL1221PL	Yes	Yes	Yes
1223PW	Yes	Yes	Yes	HBL1222PL	Yes	Yes	Yes
1224PW	Yes	Yes	Yes	HBL1223PL	Yes	Yes	Yes
CS115	Yes	Yes	Yes	HBL1221RKL	No	Yes	Yes
CS315	Yes	Yes	Yes	HBL1222RKL	No	Yes	Yes
CS120	Yes	Yes	Yes	HBL1223RKL	No	Yes	Yes
CS320	Yes	Yes	Yes	HBL1224RKL	No	Yes	Yes
CSB115	Yes	Yes	Yes	HBL1259I	No	No	No
CSB215	Yes	Yes	Yes	HBL1281	No	Yes	Yes
CSB315	Yes	Yes	Yes	HBL1282	No	Yes	Yes
CSB415	Yes	Yes	Yes	HBL1283	No	No	No
CSB120	Yes	Yes	Yes	HBL1284	No	No	No
CSB220	Yes	Yes	Yes	HBL1287I	No	Yes	Yes
CSB320	Yes	Yes	Yes	HBL1288I	No	No	No
CSB420	Yes	Yes	Yes	HBL1281MO	No	No	No
CSL115	Yes	Yes	Yes	HBL1281MC	No	No	No
CSL215	Yes	Yes	Yes	HBL1297	No	Yes	Yes
CSL315	Yes	Yes	Yes	HBL1298	No	No	No
CSL415	Yes	Yes	Yes	HBL1381	No	Yes	Yes
CSL120	Yes	Yes	Yes	HBL1382	No	Yes	Yes
CSL220	Yes	Yes	Yes	HBL1385	No	Yes	Yes
CSL320	Yes	Yes	Yes	HBL1386	No	Yes	Yes
CSL420	Yes	Yes	Yes	HBL1386L	No	Yes	Yes
DS115	No	Yes	Yes	HBL1388	No	Yes	Yes
DS315	No	Yes	Yes	HBL1556	No	Yes	Yes
DS120	No	Yes	Yes	HBL1557	No	Yes	Yes
DS220	No	Yes	Yes	HBL1556L	No	Yes	Yes
DS320	No	Yes	Yes	HBL1557L	No	Yes	Yes
DS420	No	Yes	Yes	HBL3031	Yes	Yes	Yes
DS120IL	No	Yes	Yes	HBL3032	Yes	Yes	Yes
DS320IL	No	Yes	Yes	HBL3033	Yes	Yes	Yes
DS120PL	No	Yes	Yes	HBL3031PL	Yes	Yes	Yes
DSL115	No	Yes	Yes	HBL3031PL	Yes	Yes	Yes
DSL215	No	Yes	Yes	HBL3032PL	Yes	Yes	Yes
DSL315	No	Yes	Yes	SNAP1201	No	Yes	Yes
DSL415	No	Yes	Yes	SNAP1201IL	No	Yes	Yes
DSL120	No	Yes	Yes	SNAP1201PL	No	Yes	Yes
DSL220	No	Yes	Yes	SNAP1203	No	Yes	Yes
DSL320	No	Yes	Yes	SNAP1203IL	No	Yes	Yes
DSL420	No	Yes	Yes	SNAP1221	No	Yes	Yes
HBL1201	Yes	Yes	Yes	SNAP1221IL	No	Yes	Yes
HBL1202	Yes	Yes	Yes	SNAP1221PL	No	Yes	Yes
HBL1203	Yes	Yes	Yes	SNAP1223	No	Yes	Yes
HBL1204	Yes	Yes	Yes	SNAP1223	No	Yes	Yes
HBL1201IL	Yes	Yes	Yes	SNAP1223IL	No	Yes	Yes
HBL1203IL	Yes	Yes	Yes	SNAP2101	No	Yes	Yes
HBL1201PL	Yes	Yes	Yes	SNAP2101IL	No	Yes	Yes
HBL1203PL	Yes	Yes	Yes	SNAP2101PL	No	Yes	Yes
HBL1201L	Yes	Yes	Yes	SNAP2103	No	Yes	Yes
HBL1202L	Yes	Yes	Yes	SNAP2103IL	No	Yes	Yes
HBL1203L	Yes	Yes	Yes	SNAP2121	No	Yes	Yes
HBL1204L	Yes	Yes	Yes	SNAP2121IL	No	Yes	Yes
HBL1221	Yes	Yes	Yes	SNAP2121PL	No	Yes	Yes
HBL1222	Yes	Yes	Yes	SNAP2123	No	Yes	Yes
HBL1223	Yes	Yes	Yes	SNAP2123IL	No	Yes	Yes

Note: Catalog numbers above represent all colors and variations, per NEMA® WD-1 requirements.

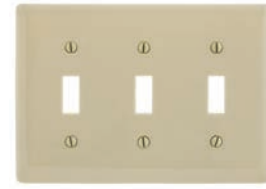
NEMA® is a registered trademark of the National Electrical Manufacturers Association.



1-Gang



2-Gang



3-Gang

### Standard Size, Smooth Nylon, Toggle Switch Plates

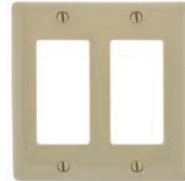
Color	Catalog Number		
Almond	<b>NP1AL</b>	<b>NP2AL</b>	<b>NP3AL</b>
Black	<b>NP1BK</b>	<b>NP2BK</b>	<b>NP3BK</b>
Brown	<b>NP1</b>	<b>NP2</b>	<b>NP3</b>
Gray	<b>NP1GY</b>	<b>NP2GY</b>	<b>NP3GY</b>
Ivory	<b>NP1I</b>	<b>NP2I</b>	<b>NP3I</b>
Light Almond	<b>NP1LA</b>	<b>NP2LA</b>	<b>NP3LA</b>
Office White	<b>NP1OW</b>	<b>NP2OW</b>	<b>NP3OW</b>
Red	<b>NP1R</b>	<b>NP2R</b>	—
White	<b>NP1W</b>	<b>NP2W</b>	<b>NP3W</b>

### Standard Size, Smooth Metal, Toggle Switch Plates

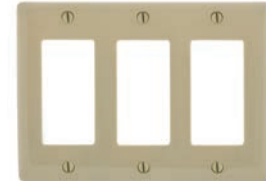
Color	Catalog Number		
Aluminum	<b>SA1</b>	<b>SA2</b>	①
Brass	<b>SB1</b>	<b>SB2</b>	<b>SBP3*</b>
Stainless Steel, 302/304	<b>SS1</b>	<b>SS2</b>	<b>SS3</b>
Stainless Steel, 430	<b>SS1L</b>	<b>SS2L</b>	<b>SS3L</b>



1-Gang



2-Gang



3-Gang

### Standard Size, Smooth Nylon, Style Line® Switch Plates

Color	Catalog Number		
Almond	<b>NP26AL</b>	<b>NP262AL</b>	<b>NP263AL</b>
Black	<b>NP26BK</b>	<b>NP262BK</b>	<b>NP263BK</b>
Brown	<b>NP26</b>	<b>NP262</b>	<b>NP263</b>
Gray	<b>NP26GY</b>	<b>NP262GY</b>	<b>NP263GY</b>
Ivory	<b>NP26I</b>	<b>NP262I</b>	<b>NP263I</b>
Light Almond	<b>NP26LA</b>	<b>NP262LA</b>	<b>NP263LA</b>
Office White	<b>NP26OW</b>	<b>NP262OW</b>	<b>NP263OW</b>
Red	<b>NP26R</b>	<b>NP262R</b>	<b>NP263R</b>
White	<b>NP26W</b>	<b>NP262W</b>	<b>NP263W</b>

### Standard Size, Smooth Metal, Style Line® Switch Plates

Color	Catalog Number		
Aluminum	①	①	①
Brass	<b>SB26</b>	<b>SB262</b>	①
Stainless Steel, 302/304	<b>SS26</b>	<b>SS262</b>	<b>SS263</b>
Stainless Steel, 430	<b>SS26L</b>	<b>SS262L</b>	—

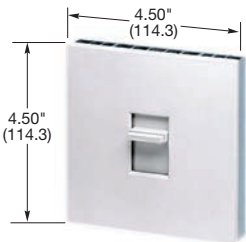
Note: See section N for additional wallplates.

\*Brass plated.

① Available as a custom metal wallplate. See section N for additional information.



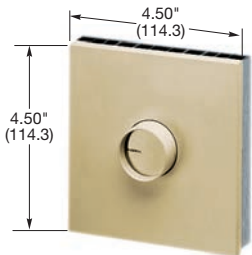
600 and 1000W Dimmer  
Fits Single-Gang Wall Boxes.  
**AS63 and AS103**



1500 and 2000W Dimmer  
Fits Single-Gang Wall Boxes.  
**AS153 and AS203**



600 and 1000W Dimmer  
Fits Single-Gang Wall Boxes.  
**AR61 and AR101**



1500 and 2000W Dimmer  
Fits Single-Gang Wall Boxes.  
**AR151 and AR201**

### Architectural Grade, Incandescent Preset Slide Control Dimmers

Description	Color	Rating	Catalog Number
Single pole/three way - preset.	White	600W, 120V AC, 60Hz	<b>AS63</b>
Single pole/three way - preset.	White	1000W, 120V AC, 60Hz	<b>AS103</b>
Single pole/three way - preset.	White	1500W, 120V AC, 60Hz	<b>AS153</b>
Single pole/three way - preset.	White	2000W, 120V AC, 60Hz	<b>AS203</b>

### Accessories

Description	Color	Catalog Number
Small plate kit for 600W and 1000W models.	Ivory	<b>AS1I</b>
Includes non-metallic trimplate and slide.	White	<b>AS1W</b>
Large plate kit for 1500W and 2000W models.	Ivory	<b>AS2I</b>
Includes non-metallic trimplate and slide.	White	<b>AS2W</b>

Note: The dimmers listed above can be wired for single pole or three way applications.  
See page D-17 for ganging and derating.

### Architectural Grade, Incandescent Rotary Control Dimmers

Description	Color	Rating	Catalog Number
Single pole - push on/off.	Beige	600W, 120V AC, 60Hz	<b>AR61</b>
Three way - push on/off.	Beige		<b>AR63</b>
Single pole - push on/off.	Beige	1000W, 120V AC, 60Hz	<b>AR101</b>
Three way - push on/off.	Beige		<b>AR103</b>
Single pole, rotary on/off.	Beige	1500W, 120V AC, 60Hz	<b>AR151</b>
Single pole, rotary on/off.	Beige	2000W, 120V AC, 60Hz	<b>AR201</b>

### Accessories

Description	Color	Catalog Number
Small plate kit for 600W and 1000W models.	Beige	<b>AR1BE</b>
Includes non-metallic trimplate and knob.	White	<b>AR1W</b>
Large plate kit for 1500W and 2000W models.	Beige	<b>AR2BE</b>
Includes non-metallic trimplate and knob.	White	<b>AR2W</b>

Note: See page D-17 for ganging and derating.



# Switches

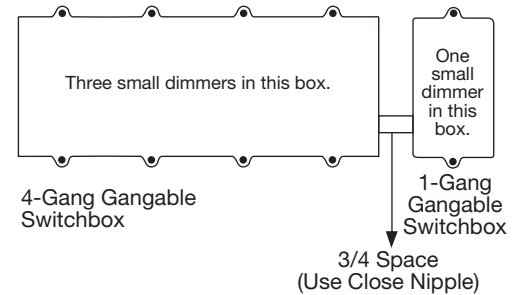
## Dimmer Ganging and Derating

### Architectural Grade Slide and Rotary Series Number of Switchboxes Required with Dimmer Side sections Intact

		Number of Small Controls (600W and 1000W)						
		0	1	2	3	4	5	6
Number of Large Controls (1500W and 2000W)	0	0	1	1+1	4	1+4	7	1+7
	1	1	3	5	6	8	9	11
	2	4	6	7	9	10	12	13
	3	6	8	10	11	13	14	16
	4	9	11	12	14	15	17	18
		Number of Gangs Required						

Note: When ganging an even number of small controls with no side sections removed (plus numbers in chart), use gangable switchboxes with tapped ears as shown below. Do not use plaster rings or gangbox covers. Space an additional switchbox 3/4 in. apart from the other switchbox(es). A 3/4 in. close nipple is recommended as a spacer between the switchboxes.

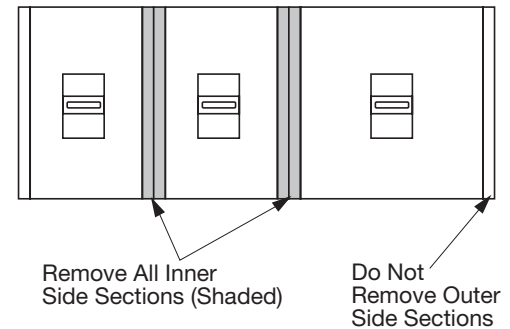
### Example of 4-Gang Installation



### Number of Switchboxes Required with Side Sections Removed

		Number of Small Controls (600W and 1000W)						
		0	1	2	3	4	5	6
Number of Large Controls (1500W and 2000W)	0	0	1	2	3	4	5	6
	1	1	3	4	5	6	7	8
	2	3	5	6	7	8	9	10
	3	5	7	8	9	10	11	12
	4	7	9	10	11	12	13	14
		Number of Gangs Required						

Note: When removing side sections, remove only inner side sections. Do not remove side sections on outer ends of gang. The same installation rules apply to rotary dimmers (not shown).



### Derating Chart

No side sections removed	One side section removed	Both side sections removed
600W	600W	500W
1000W	900W	700W
1500W	1250W	1000W
2000W	1800W	1500W

Note: When ganging any combination of small and large controls, place a small control on one extreme end of the gang, and a large control at the other end of the gang. When ganging with side sections intact, use offset mounting holes. When ganging with side sections removed, use center mounting holes. Allow a 1/2 in. gap (space) between controls for ease in attaching the faceplate.

### Specification Grade Slide and Rotary Series Switchboxes Required: Side sections removed

#### Derating Chart

1 dimmer in wall box	2 dimmers in wall box	3 or more dimmers in wall box
600W	500W	400W
1000W	800W	650W
5A fan speed	4A fan speed	3A fan speed



HBL11



HBL123SP

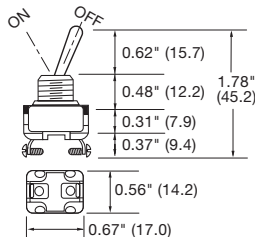
### 10A 250V AC 20A 125V AC Horsepower Rated 3/4 HP, 125-250V AC

Description	Terminal	Catalog Number
Single pole/ single throw.	Screw Spade	<b>HBL11</b> <b>HBL11SP</b>
Single pole/ single throw momentary.	Screw Spade	<b>HBL11M</b> <b>HBL11SPM</b>
Single pole/ double throw.	Screw Spade	<b>HBL12</b> <b>HBL12SP</b>
Single pole/ double throw 3-position center off.	Screw Spade	<b>HBL123</b> <b>HBL123SP</b>
Single pole/ double throw 3-position center off momentary.	Screw Spade	<b>HBL123MM</b> <b>HBL123SPMM</b>

Note: All threaded stems 1/2 in.-32 thread.

### 10A 240V AC 15A 120V AC

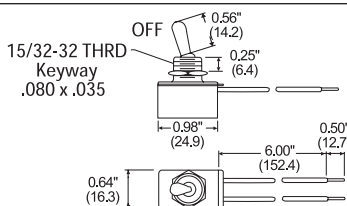
Description	Terminal	Catalog Number
Single pole/ single throw.	Screw	<b>HBL118</b>



Note: 1/2 in.-32 thread.

### 4A 250V 8A 125V 10A 120V AC 1/3 HP 120V AC

Description	Terminal	Catalog Number
Single pole/ single throw.	#18 Std. AWG Copper Wire Leads 105° C Black.	<b>HBL11WL</b>



Note: 1/2 in.-32 thread, keyway .080 x .035.

### Specifications

Impact Resistant Thermoplastic Body.

Fine Silver Contacts.

Knurled Nut, Hex Nut And Strap All Nickel Plated.

Keyed Brass Bushing Nickel Plated.

Brass Toggle Nickel Plated.

Choice of Terminal Design: .250 in. (6.3) Male Tab Spade Type or 6/32 Screw Type.

UL Recognized.

Dimensions in Inches (mm)

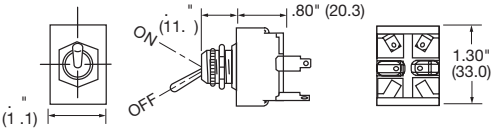
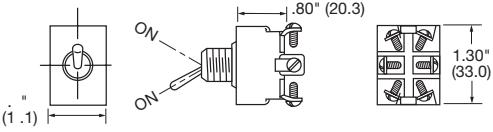
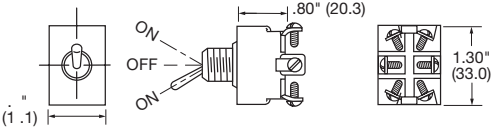
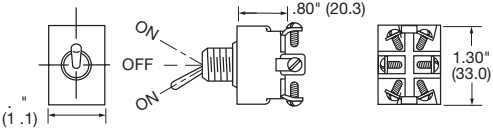
# Switches

## Heavy Duty Panel Mount

Panel Mount and Bat Handle Switches



### 10A 250V AC 20A 125V AC Horsepower Rated 1½ HP, 125-250V AC

Description	Terminal	Catalog Number
Double pole/ single throw. 	Screw Spade	<b>HBL21</b> <b>HBL21SP</b>
Double pole/ single throw. 	Screw Spade	<b>HBL22</b> <b>HBL22SP</b>
Double pole/ double throw 3-position center off. 	Screw Spade	<b>HBL223</b> <b>HBL223SP</b>
Double pole/ double throw 3-position center off momentary. 	Screw Spade	<b>HBL223MM</b> <b>HBL223SPMM</b>
Silicone rubber boot.	Screw Spade	<b>SSB1</b>



HBL21



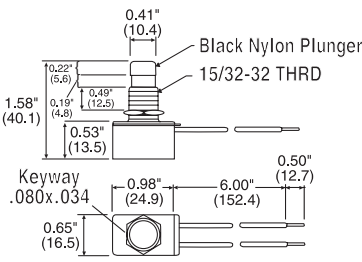
HBL223



SSB1

Note: All threaded stems 1/32 in.-32 thread.  
See Y-33 for information on 12V DC tapered handle switches.

### 4A 250V 8A 125V 10A 120V AC 1/3 HP 120V AC

Description	Terminal	Catalog Number
Single pole/ single throw. 	#18 Std. AWG Copper Wire Leads 105° C Black.	<b>HBL11PBWL</b>

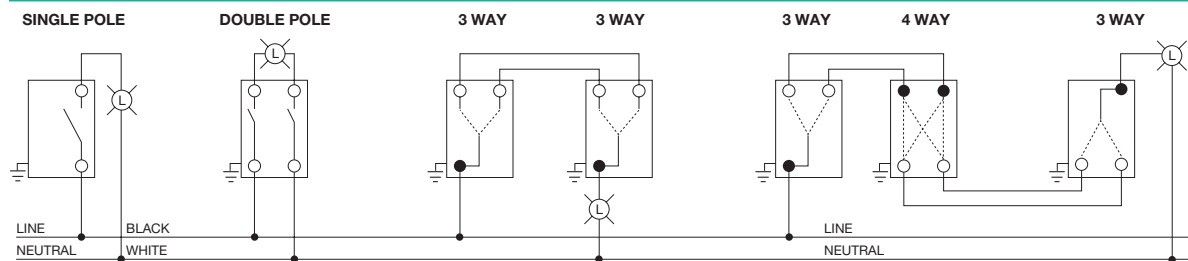


HBL11PBWL

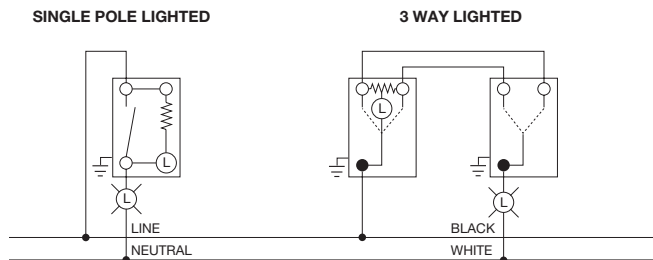
Note: 1/32 in.-32 thread, keyway .080 x .035.

Dimensions in Inches (mm)

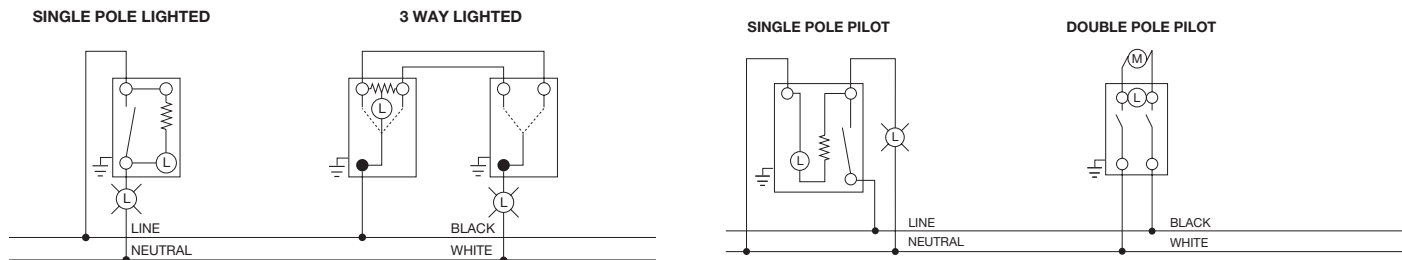
## Standard Toggle Type Switches



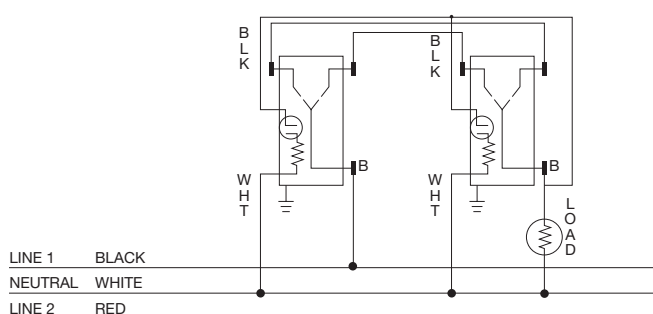
## Illuminated Switches (light on with load off)



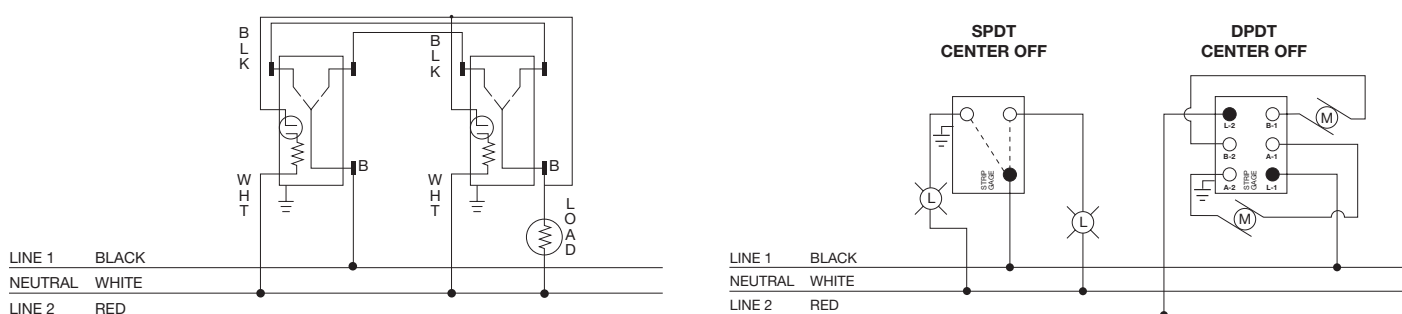
## Pilot Light Switches (light on with load on)



## Three Way Pilot Switches



## Three Position Switches, Momentary and Maintained



## Specifications - HBL® Extra Heavy Duty Industrial Grade Switches (SP, DP, 3-Way, 4-Way)

Listings	Component	Material
UL Listed	Base	Thermoset, Color Coded by Amperage
CSA Certified	Top	Thermoset, Gray
Verified to Fed. Spec. W-S-896,	Toggle	Nylon
SP, DP, 3-way and 4-way	Terminals	Brass
	Terminal Screws	Brass
	Mounting Bridge	Nickel Plated Steel
	Contacts	Silver Alloy
	Moveable Contact Arm	Brass
	Rocker	Elastomer
	Ground Terminal	Nickel-Plated Steel
	Ground Screw	Brass
	Automatic Grounding Clip	Stainless Steel

## Performance Data

Electrical	
Dielectric Voltage	Withstands 1500V AC minimum for 1 minute.
Max. Working Voltage	277V AC.
Overload	Minimum 4.8 times rated current for 100 cycles.
Temperature Rise	30°C maximum at rated current.
Max. Continuous Current	15A, 20A, 30A.
Endurance	50,000 cycles min., tungsten filament lamp load Fed. Spec. #WS896, SP, DP, 3-way and 4-way.
Mechanical	
Terminal Accommodations	#14 AWG min. - #10 AWG max. solid and stranded copper wire only.
Environmental	
Flammability	UL 94V-2.
Operating Temperature	Max. continuous: 75°C; Min. continuous: -40°C without impact.



# Section E H-MOSS® Controls

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### Switches, Ceiling and Wall Mount Sensors



### H-MOSS|MAXX® Sensors



### WL-Series Wireless Sensors and Controls



### High Bay and Daylight Harvesting





## H-MOSS® Occupancy Sensors Combine Innovative Technologies for Industry Proven Performance.



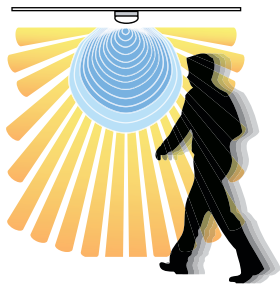
### **Adaptive Technology**

Adaptive Technology is a Hubbell breakthrough that delivers benefits to both building owners and occupants. The building owner achieves reduced energy costs, fewer adjustments and less maintenance, and the building occupant experiences fewer false-offs and disturbances.

Adaptive technology occupancy sensors use microprocessors that make all the decisions for setting adjustments. Internal software constantly monitors the controlled area and automatically adjusts the sensitivity and timer based on environmental history. This means that instead of manually adjusting the sensor for seasonal changes, modified airflow, furniture layout or occupancy pattern changes, the sensor automatically adjusts itself. These automatic adjustments eliminate the need for multiple manual adjustments by maintenance personnel or outside contractors. Hubbell offers adaptive technology throughout its product offering—wall switches, ceiling and wall mount sensors—in conjunction with dual technology, ultrasonic and passive infrared products.

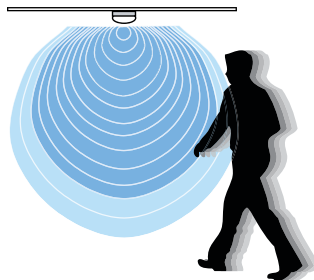
## How to Select the Right Technology for the Proper Application

### **Dual Technology**



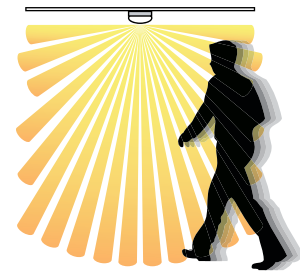
Dual technology occupancy sensors combine both passive infrared (PIR) and ultrasonic (US) technologies for maximum reliability. Because US and PIR need to both detect occupancy to turn lighting ON, dual technology sensors minimize the risk of lights coming ON when the space is unoccupied—false triggering. Continued detection by only one technology then keeps lighting ON as necessary. Dual technology sensors offer the best performance for most applications.

### **Ultrasonic (US)**



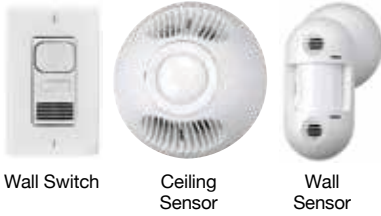
Ultrasonic (US) technology senses occupancy by bouncing sound waves (32 kHz - 45 kHz) off of objects and detecting a frequency shift between the emitted and reflected sound waves. Movement by a person or object within a space causes a shift in frequency, which the sensor interprets as occupancy. While US occupancy sensors have a limited range, they are excellent at detecting even minor motion such as typing and filing, and they do not require an unobstructed line-of-sight. This makes US technology sensors ideal for an application like an office with cubicles or a restroom with stalls.

### **Passive Infrared (PIR)**



Passive infrared (PIR) technology senses occupancy by detecting the movement of heat emitted from the human body against the background space. Unlike US technology, PIR sensors require an unobstructed line-of-sight for detection. These sensors use a segmented lens, which divides the coverage area into zones. Movement between zones is then interpreted as occupancy. PIR sensors are ideal for detecting major motion (e.g. walking), and they work best in small, enclosed spaces with high levels of occupant movement.

**Typical Applications**



Applications are generalized. Consult your Hubbell representative for the type of technology and products that fit your needs.

Application		Sensor Technology				Sensor Style		
		Adaptive	Dual	Ultrasonic	PIR	Wall Switch	Ceiling	Wall
Office	Small	✓+	✓+		✓	✓+	✓	
	Large	✓+	✓+	✓			✓+	
Open Office		✓+	✓	✓+			✓+	
Storage/ Warehouse	Small				✓+	✓+		
	Large	✓+			✓+		✓+	✓+
Rest Room	Small			✓+	✓+	✓+	✓	
	Large	✓+		✓+			✓+	
Conference Room	Small	✓+	✓+			✓+	✓	
	Large	✓+	✓+				✓+	
Classroom	Small	✓+	✓+			✓+	✓	
	Large	✓+	✓+				✓+	
Hall		✓+		✓+	✓		✓+	✓

**Hubbell Occupancy Sensors Play a Key Role**

In the U.S., lighting consumes 22% of electricity and represents \$40 billion a year in energy costs. Using advanced technology, Hubbell's H-MOSS® Occupancy Sensors are doing their part to save energy and provide sustainability by automatically and effectively turning lights on when a room is occupied and off when a room is vacant. In a typical office building, where lighting accounts for 35 to 45% of energy use, H-MOSS Occupancy Sensors have the potential to reduce wasted lighting by 13% to 90% for a significant return on investment (ROI).

**Code Compliance**

Hubbell offers a broad range of occupancy and vacancy sensors and lighting controls that meet the latest codes and standards, including ASHRAE/IESNA 90.1 and California Energy Commission (CEC) Title 24. H-MOSS Occupancy Sensors can also provide LEED® points in categories like Sustainable Sites, Energy and Atmosphere, Indoor Environmental Quality and Innovative Design Process.

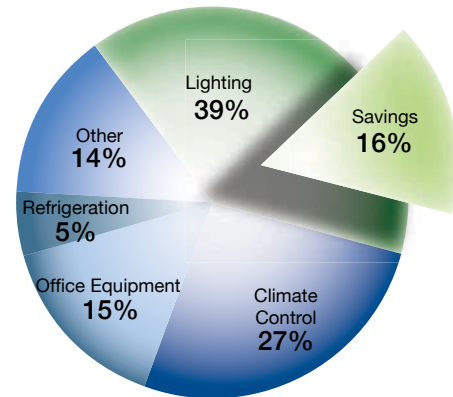
**Backed by Hubbell Service and Support**

H-MOSS® Occupancy Sensors are backed by Hubbell **HSI = GREEN**™ Sustainability Initiative and superior service and support including:

- Valuable online H-MOSS ROI worksheet for calculating energy savings
- Detailed H-MOSS online e-learning courses that can be taken anywhere, anytime
- Product selection guide for choosing the right H-MOSS Occupancy Sensor and technology
- Online specification assistance through spec wizard, AutoCAD drawings, templates, BIM objects and documentation
- Comprehensive design assistance for deploying occupancy sensors in a variety of applications
- Highly knowledgeable network of specification professionals and trained, dedicated sales staff
- Backed by Hubbell who is committed to safeguarding the environment through environmental stewardship, innovative products and efficient operations

Electrical bill impact for a typical office building\*

Lighting Uses 39% of Total Electricity



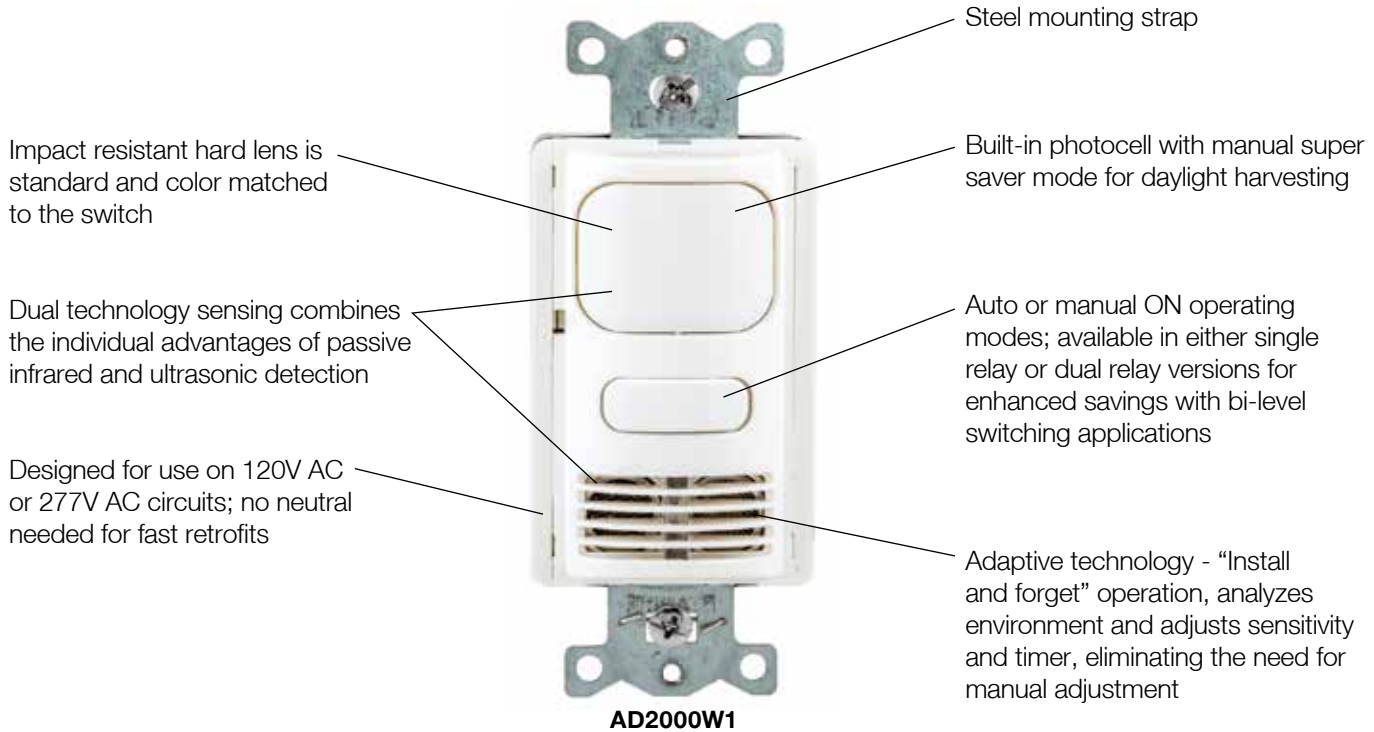
Potential electricity bill savings\*\*

Note: \*Energy Information Administration:  
- Commercial Buildings  
- Energy Consumption Survey

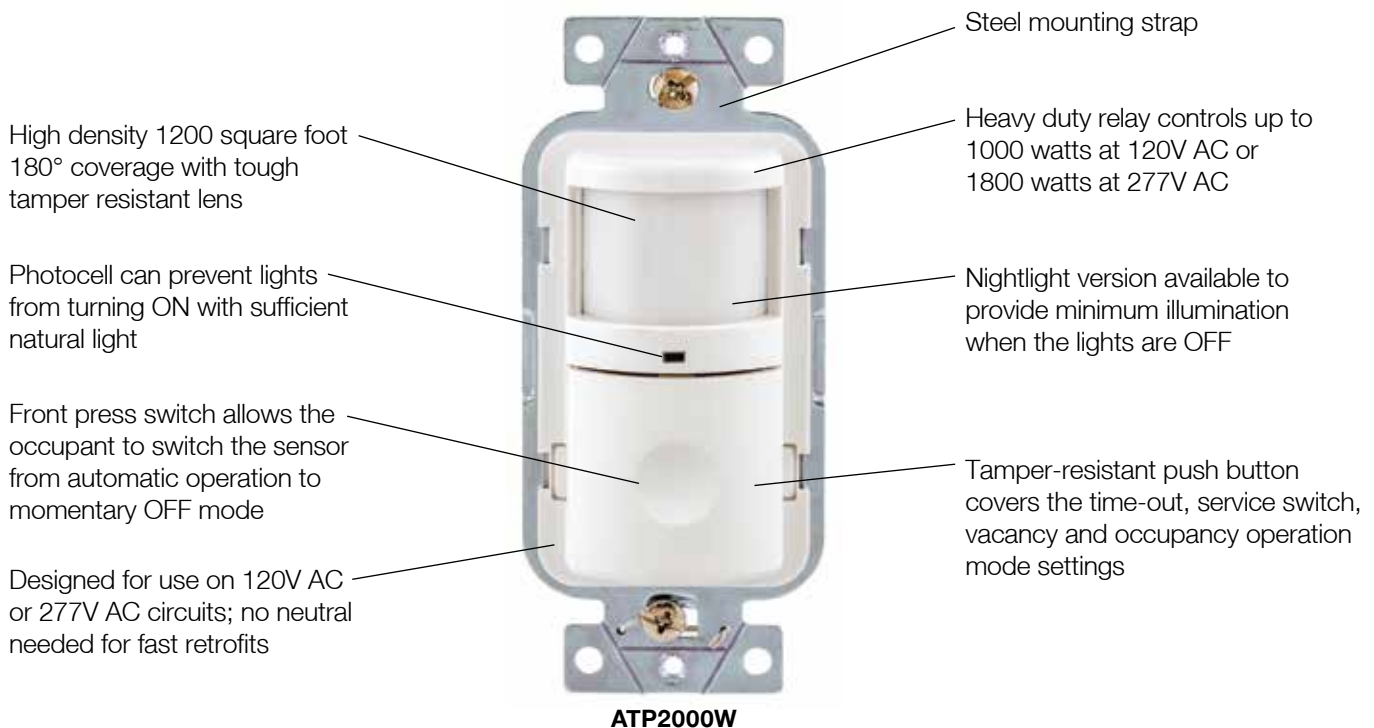
\*\*Based on 40% lighting savings from sensors. Actual results may vary.



## Dual (Ultrasonic and Passive Infrared)



## Passive Infrared



### Adaptive Technology

- “Install and forget” operation
- Zero arc point switching
- Dual 120/277V AC operation; no neutral required
- Auto or manual ON operating modes (2000 series)
- Manual ON (Vacancy) operating mode (2001 series)
- No minimum load requirements
- Hard lens (dual technology, passive infrared)
- Steel mounting strap
- Built-in photocell with manual super saver mode for daylight harvesting
- Bi-level switching or dual load control (2 or 2N suffix)
- Compatible with most LED and CFL
- CEC Title 24 Compliant
- cULus

### Dual (Ultrasonic and Passive Infrared)

1000 square foot coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC, 50/60Hz.

Description	Color	Single Circuit		Dual Circuit	
		1 button for manual/auto control	Auto control with no button	2 buttons for manual/auto control	Auto control with no button
Dual (ultrasonic and passive infrared)	Black	<b>AD2000BK1</b>	<b>AD2000BK1N</b>	<b>AD2000BK2</b>	<b>AD2000BK2N</b>
	Gray	<b>AD2000GY1*</b>	<b>AD2000GY1N</b>	<b>AD2000GY2</b>	<b>AD2000GY2N</b>
	Ivory	<b>AD2000I1*</b>	<b>AD2000I1N*</b>	<b>AD2000I2*</b>	<b>AD2000I2N</b>
	Light Almond	<b>AD2000LA1*</b>	<b>AD2000LA1N</b>	<b>AD2000LA2</b>	<b>AD2000LA2N</b>
	White	<b>AD2000W1*</b>	<b>AD2000W1N*</b>	<b>AD2000W2*</b>	<b>AD2000W2N</b>
Manual ON (Vacancy)	Black	<b>AD2001BK1</b>	—	<b>AD2001BK2</b>	—
	Gray	<b>AD2001GY1</b>	—	<b>AD2001GY2</b>	—
	Ivory	<b>AD2001I1</b>	—	<b>AD2001I2</b>	—
	Light Almond	<b>AD2001LA1</b>	—	<b>AD2001LA2</b>	—
	White	<b>AD2001W1</b>	—	<b>AD2001W2</b>	—

Note: \*Neutral wire versions, use ADN prefix when ordering.  
 Wallplate sold separately. See pages E-16 and E-17 for technical specifications, coverage patterns and wiring schematics.

### Ultrasonic

400 square foot coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC, 50/60Hz.

Description	Color	Single Circuit		Dual Circuit	
		1 button for manual/auto control	Auto control with no button	2 buttons for manual/auto control	Auto control with no button
Ultrasonic	Black	<b>AU2000BK1</b>	<b>AU2000BK1N</b>	<b>AU2000BK2</b>	<b>AU2000BK2N</b>
	Gray	<b>AU2000GY1</b>	<b>AU2000GY1N</b>	<b>AU2000GY2</b>	<b>AU2000GY2N</b>
	Ivory	<b>AU2000I1*</b>	<b>AU2000I1N*</b>	<b>AU2000I2</b>	<b>AU2000I2N</b>
	Light Almond	<b>AU2000LA1</b>	<b>AU2000LA1N</b>	<b>AU2000LA2</b>	<b>AU2000LA2N</b>
	White	<b>AU2000W1*</b>	<b>AU2000W1N*</b>	<b>AU2000W2</b>	<b>AU2000W2N</b>
Manual ON (Vacancy)	Black	<b>AU2001BK1</b>	—	<b>AU2001BK2</b>	—
	Gray	<b>AU2001GY1</b>	—	<b>AU2001GY2</b>	—
	Ivory	<b>AU2001I1</b>	—	<b>AU2001I2</b>	—
	Light Almond	<b>AU2001LA1</b>	—	<b>AU2001LA2</b>	—
	White	<b>AU2001W1</b>	—	<b>AU2001W2</b>	—

Note: \*Neutral wire versions, use AUN prefix when ordering.  
 Wallplate sold separately. See pages E-16 and E-17 for technical specifications, coverage patterns and wiring schematics.

### Passive Infrared

1000 square foot coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC, 50/60Hz.

Description	Color	Single Circuit		Dual Circuit	
		1 button for manual/auto control	Auto control with no button	2 buttons for manual/auto control	Auto control with no button
Passive infrared	Black	<b>AP2000BK1</b>	<b>AP2000BK1N</b>	<b>AP2000BK2</b>	<b>AP2000BK2N</b>
	Gray	<b>AP2000GY1*</b>	<b>AP2000GY1N</b>	<b>AP2000GY2</b>	<b>AP2000GY2N</b>
	Ivory	<b>AP2000I1*</b>	<b>AP2000I1N*</b>	<b>AP2000I2*</b>	<b>AP2000I2N</b>
	Light Almond	<b>AP2000LA1*</b>	<b>AP2000LA1N</b>	<b>AP2000LA2</b>	<b>AP2000LA2N</b>
	White	<b>AP2000W1*</b>	<b>AP2000W1N*</b>	<b>AP2000W2*</b>	<b>AP2000W2N</b>
Manual ON (Vacancy)	Black	<b>AP2001BK1</b>	—	<b>AP2001BK2</b>	—
	Gray	<b>AP2001GY1</b>	—	<b>AP2001GY2</b>	—
	Ivory	<b>AP2001I1</b>	—	<b>AP2001I2</b>	—
	Light Almond	<b>AP2001LA1</b>	—	<b>AP2001LA2</b>	—
	White	<b>AP2001W1</b>	—	<b>AP2001W2</b>	—

Note: \*Neutral wire versions, use APN prefix when ordering.  
 Wallplate sold separately. See pages E-16 and E-17 for technical specifications, coverage patterns and wiring schematics.





**ATP2000W**

### Adaptive Technology, Passive Infrared

- “Install and forget” operation
- Passive infrared technology
- Dual 120/277V AC operation, no neutral required
- 1200 sq. ft. coverage
- Built-in photocell for daylight harvesting
- Wallplate included
- Steel mounting strap
- Compatible with most LED and CFL
- CEC Title 24 Compliant
- cULus

Description	Color	Standard	with Nightlight	with Neutral	with Nightlight and Neutral
Adaptive auto-adjusting; selectable manual/auto-ON operation; dual-voltage 120/277V AC; 3-way capable	Gray	<b>ATP2000GY</b>	<b>ATP2000NGY</b>	—	—
	Ivory	<b>ATP2000I</b>	<b>ATP2000NI</b>	<b>ATP2004I</b>	<b>ATP2004NI</b>
	Light Almond	<b>ATP2000LA</b>	<b>ATP2000NLA</b>	—	—
	White	<b>ATP2000W</b>	<b>ATP2000NW</b>	<b>ATP2004W</b>	<b>ATP2004NW</b>

Note: See page E-17 for technical specifications, coverage patterns and wiring schematics.



**WS2000W**  
**WS1000W**

### Passive Infrared

- Passive infrared technology
- Manual adjustment time delay (20 sec. to 30 min.)
- Photocell (WS2000 series)
- No neutral required
- 1200 sq. ft. coverage
- Wallplate included
- Steel mounting strap
- Compatible with most LED and CFL
- CEC Title 24 Compliant
- cULus

Description	Color	Standard	with Nightlight	with Neutral	with Nightlight and Neutral
Manual adjusting; selectable manual/auto-ON operation; dual-voltage 120/277V AC; 3-way capable	Gray	<b>WS2000GY</b>	<b>WS2000NGY</b>	—	—
	Ivory	<b>WS2000I</b>	<b>WS2000NI</b>	<b>WS2004I</b>	<b>WS2004NI</b>
	Light Almond	<b>WS2000LA</b>	<b>WS2000NLA</b>	—	—
	White	<b>WS2000W</b>	<b>WS2000NW</b>	<b>WS2004W</b>	<b>WS2004NW</b>
Manual adjusting; auto-ON operation; 120V AC only	Ivory	<b>WS1000I</b>	<b>WS1000NI</b>	—	—
	White	<b>WS1000W</b>	<b>WS1000NW</b>	—	—
Manual adjusting; Manual-ON operation; 120V AC only	Ivory	<b>WS1001I</b>	<b>WS1001NI</b>	—	—
	White	<b>WS1001W</b>	<b>WS1001NW</b>	—	—

Note: See page E-17 for technical specifications, coverage patterns and wiring schematics.



**DT2000W**

### Digital Timer

Description	Color	Catalog Number
Dip switch enabled preset intervals, user adjustable up to 4 hours, 3-way capable, 960W @ 120V AC and 1200W @ 277V AC. Includes an ON/OFF momentary push button switch feature.	White	<b>DT2000W</b>



**DT5030W**

### Count Down Timers

Description	Color	30 Minutes: OFF, 5, 10, 20, 30	60 Minutes: OFF, 15, 30, 45, 60	12 Hours: OFF, 2, 4, 8, 12
1000W @ 120V AC and 1400W @ 277V AC	Ivory	<b>DT5030I</b>	<b>DT5060I</b>	<b>DT5012I</b>
	Light Almond	<b>DT5030LA</b>	<b>DT5060LA</b>	<b>DT5012LA</b>
	White	<b>DT5030W</b>	<b>DT5060W</b>	<b>DT5012W</b>

### Low Voltage Switches

- Attractive, architectural design
- Available latching or momentary contact
- Mounts to standard single gang box
- 2-year warranty

Description	Color	Catalog Number
Low voltage switch, latching, 1 button	Ivory	<b>DSL30I1</b>
	White	<b>DSL30W1</b>
Low voltage switch, momentary, 1 button	Ivory	<b>DSM30I1</b>
	White	<b>DSM30W1</b>
Low voltage switch, momentary, 2 button	Ivory	<b>DSM30I2</b>
	White	<b>DSM30W2</b>

Note: Wallplate sold separately.



**DSL30W1**  
**DSM30W1**



### Adaptive Technology

- “Install and forget” operation
- All digital sensing technology
- Photocell and relay to interface with auxiliary systems such as HVAC (CRP models)
- Non-volatile memory settings retained after power outage
- Mounting base included with sensor
- Low voltage units: 24V DC, 33mA
- Line voltage units: 20A, 120-277V AC
- 32kHz (ATD/ATU500C and CRP - 40kHz)
- Compatible with most LED and CFL
- CEC Title 24 Compliant
- cULus



**ATD2000**

### Dual (Ultrasonic and Passive Infrared)

Combines the excellent minor motion detection of ultrasonic with the outstanding passive infrared (PIR) long-range major motion detection.

Description	Color	Coverage Area		
		2000 sq. ft. (360°)	1000 sq. ft. (180°)	500 sq. ft. (180°)
Low voltage sensor with photocell and isolated relay	Office White	<b>ATD2000CRP</b>	<b>ATD1000CRP</b>	<b>ATD500CRP</b>
Low voltage sensor	Office White	<b>ATD2000C</b>	<b>ATD1000C</b>	<b>ATD500C</b>
Line voltage sensor	Office White	<b>ATD2000CL</b>	<b>ATD1000CL</b>	—

*Note: Low voltage ATD ceiling sensors must use a CU series control unit. See page E-9 for details. See pages E-18 to E-21 for technical specifications, coverage patterns and wiring schematics.*



**ATD1000C/  
ATD500C**

### Ultrasonic

Excellent minor motion detection.

Description	Color	Coverage Area		
		2000 sq. ft. (360°)	1000 sq. ft. (180°)	500 sq. ft. (180°)
Low voltage sensor with photocell and isolated relay	Office White	<b>ATU2000CRP</b>	<b>ATU1000CRP</b>	<b>ATU500CRP</b>
Low voltage sensor	Office White	<b>ATU2000C</b>	<b>ATU1000C</b>	<b>ATU500C</b>
Line voltage sensor	Office White	<b>ATU2000CL</b>	<b>ATU1000CL</b>	—

*Note: Low voltage ATU ceiling sensors must use a CU series control unit. See page E-9 for details. See pages E-18 to E-21 for technical specifications, coverage patterns and wiring schematics.*



**ATU2000C**

### Passive Infrared

Outstanding long range major motion detection.

Description	Color	Coverage Area	
		1500 sq. ft. (360°)	450 sq. ft. (360°)
Low voltage sensor with photocell and isolated relay	Office White	<b>ATP1500CRP</b>	<b>ATP600CRP</b>
Low voltage sensor	Office White	<b>ATP1500C</b>	<b>ATP600C</b>
Line voltage sensor	Office White	<b>ATP1500CL</b>	<b>ATP600CL</b>

*Note: Low voltage ATP ceiling sensors must use a CU series control unit. See page E-9 for details. See pages E-18 to E-21 for technical specifications, coverage patterns and wiring schematics.*



**ATU1000C/  
ATU500C**

### Low Profile, Line Voltage Passive Infrared

Outstanding long range major motion detection in a compact low profile housing.

Voltage	Color	Load Rating	Coverage Area
			1500 sq. ft.
120-347V AC with photocell	White	800W Inc., 1000W Fl. @ 120V AC 1800W Fluorescent @ 277V AC 2200W Fluorescent @ 347V AC	<b>LVPR1500R</b>



**ATP1500C/  
ATP600C**

### Ceiling Sensors Accessories

Description	Catalog Number
Ceiling sensor infrared, NEMA 4X enclosure	<b>ACIPE</b>
Ceiling mount raceway adapter	<b>ACMRA</b>
Ceiling mount wire guard	<b>ACMG</b>



**ACIPE**



**ACMRA**



**ACMG**



**LVPR1500R**



ATD1600W

**Adaptive Technology Wall Mount Sensors**

- “Install and forget” operation
- Swivel mounting bracket included for wall or ceiling mounting
- All digital sensing technology
- Compatible with most LED and CFL
- Photocell for daylight harvesting and relay interface with auxiliary systems such as HVAC (RP models)
- 24V DC, 33mA
- CEC Title 24 Compliant
- cULus



ATP1600W, ATP120HB

**Dual (Ultrasonic and Passive Infrared)**

Description	Coverage	Color	Catalog Number
Low voltage sensor 32kHz with photocell and isolated relay	1600 sq. ft.	Office White	<b>ATD1600WRP</b>
Low voltage sensor 32kHz	1600 sq. ft.	Office White	<b>ATD1600W</b>

**Passive Infrared**

Description	Coverage	Color	Catalog Number
Low voltage sensor with photocell and isolated relay	1600 sq. ft.	Office White	<b>ATP1600WRP</b>
Low voltage sensor	1600 sq. ft.	Office White	<b>ATP1600W</b>
Low voltage sensor for aisle and high bay applications, with photocell and isolated relay	120 linear feet	Office White	<b>ATP120HBRP</b>
Low voltage sensor for aisle and high bay applications	120 linear feet	Office White	<b>ATP120HB</b>

Note: All wall mount sensors must use a CU series control units. See page E-9 for details. See pages E-18 to E-21 for technical specifications, coverage patterns and wiring schematics.



AWSG



AWMG

**Wall Mount Sensors Accessories**

Description	Catalog Number
Wall switch wire guard	<b>AWSG</b>
Wall mount wire guard	<b>AWMG</b>



HMHB219

**OPTIMYZER® High Bay and Low Bay Sensors**

- Digital passive infrared (PIR) sensor
- Multiple (single and dual) output versions
- Single and dual timer operation
- Low-profile design
- No minimum load
- Supports mounting heights up to 45 feet (High Bay)
- Supports mounting heights between 8-16 feet (Low Bay)
- Universal voltage (120/277/347V AC) models available

**Daylight Harvesting Passive Infrared**

Description	Voltage	Catalog Number
Fluorescent high bay PIR sensor, 1 relay with photocell	120-347V AC	<b>HMHB219</b>
Fluorescent high bay PIR sensor, 2 relays with photocell	120-347V AC	<b>HMHB229</b>
Fluorescent high bay PIR sensor, 1 double pole relay with photocell	208/240V AC	<b>HMHB23A9</b>
Fluorescent high bay PIR sensor, 1 double pole relay with photocell	480V AC	<b>HMHB23B9</b>
Fluorescent high bay PIR sensor with photocell	24V DC	<b>HMHB2LV9*</b>

Note: 360° high bay lens included. Low bay lens options sold separately, see below for details. \*For use with CU300HD (120/277V AC, 50/60Hz) control unit. See page E-22 for technical specifications and coverage patterns.



HMHBL180



HMHBL360



HMHBLA



HMHBLEA

**Replacement Lenses and Accessories**

Description	High Bay	Low Bay
180° Lens	<b>HMHBL180</b>	<b>HMLBL180</b>
360° Lens	<b>HMHBL360</b>	<b>HMLBL360</b>
Aisle lens	<b>HMHBLA</b>	<b>HMLBLA</b>
End of aisle lens	<b>HMHBLEA</b>	<b>HMLBLEA</b>
Mounting extension adapter	<b>HMHBSA</b>	<b>HMHBSA</b>



HMHBSA

### Daylight Harvesting

- Multiple calibration options
- Selectable 3- or 8-second dimming rate
- Low-profile design
- Light-sensitivity wide range of options

Description	Voltage	Catalog Number
Single zone continuous automatic dimming control	10V DC	<b>DHADC†</b>
Indoor photocell	24V DC	<b>DHIP▲</b>
Outdoor photocell	24V DC	<b>DHOP▲</b>
Atrium photocell	24V DC	<b>DHAP▲</b>
Skylight photocell	24V DC	<b>DHSP▲</b>
Control module	24V DC	<b>DHCM</b>
Daylight tracker with ON/OFF control	24V DC	<b>DHT*</b>
Daylight tracker with dimming control	24V DC	<b>DHTD†</b>

Note: \*For use with CU series control units, see below for details.

†For use with 0-10V DC dimming ballasts.

▲For use with DHCM and CU series control units.



### Control Units

The CU300 series provides 24V DC power supply for sensors or sensor/Add-A-Relay combinations. The control units contain an internal relay for the control of an external load. Control units are plenum rated cULus Listed.

Description	Catalog Number
Automatic-ON operation, 120/277V AC, 50/60Hz for use with 1 to 4 ATD, ATU and ATP series ceiling/wall mount sensors	<b>CU300A</b>
Manual-ON operation, 120/277V AC, 50/60Hz for use with 1 to 4 ATD, ATU and ATP series ceiling/wall mount sensors	<b>CU300M</b>
Auto or manual-ON operation, 120/277V AC, 50/60Hz for use with 1 to 6 ATD, ATU and ATP series ceiling/wall mount sensors, heavy duty latching relay for reactive loads and plug-load control	<b>CU300HD</b>
Automatic-ON operation, 347V AC, 60Hz, for use with 1 to 3 ATD, ATU and ATP series ceiling and wall mount sensors	<b>CU347A</b>

Note: See page E-19 for technical specifications.



### Add-A-Relay

Hubbell AAR Add-A-Relay contains an internal relay for control of an external load. The AAR requires a 24V DC power supply from the Hubbell CU series control unit. The AAR is typically used when it is desired to switch more than one circuit when occupancy is sensed or the load exceeds the maximum rating of the control unit.

Description	Catalog Number
For use with CU series control units and Hubbell ATD, ATU and ATP series ceiling and wall mount sensors	<b>AAR</b>
Heavy duty latching relay; for use with CU300HD in Plug load applications	<b>AAR20P</b>

Note: See page E-19 for technical specifications.



### Enclosed 10 Amp SPDT Relays

Description	Catalog Number
Enclosed relay 10 Amp SPDT with 10-30V AC/DC/120V AC coil	<b>AAR10C120</b>
Enclosed relay 10 Amp SPDT with 10-30V AC/DC/208-277V AC coil	<b>AAR10C277</b>



### Multi-Level Relays

Description	Catalog Number
Enclosed independent control for multiple ballast light fixtures from one existing wall switch, bi-level; 120/208-277V AC	<b>AARBL2</b>
Enclosed independent control for multiple ballast light fixtures from one existing wall switch, tri-level; 120/208-277V AC	<b>AARBL3</b>

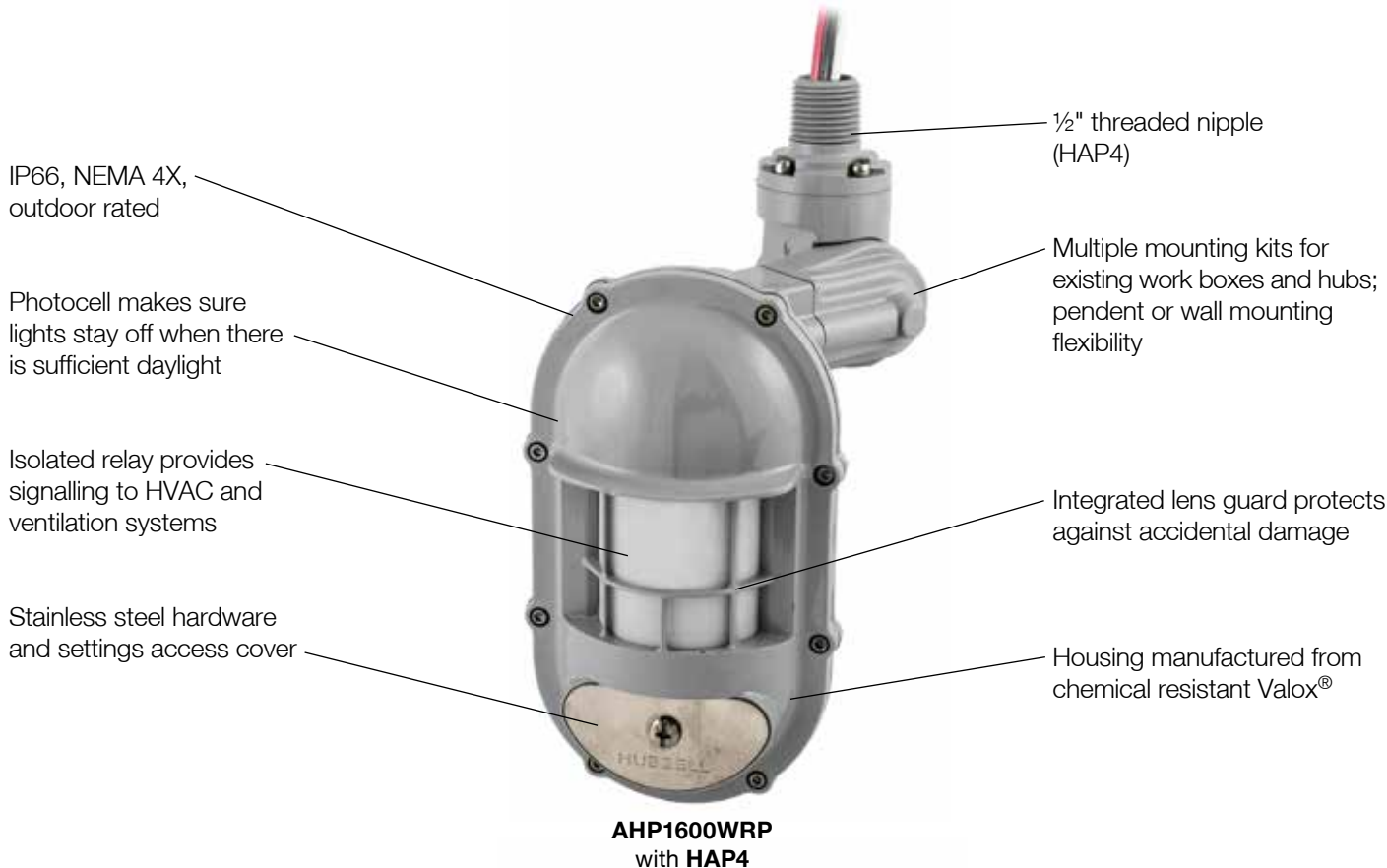


# H-MOSS® Controls MAXX™ Harsh Environment Occupancy Sensors



## Features and Benefits

H-MOSS|MAXX® products provide users with methods to reduce energy usage in harsh environments. These applications often have lights being left on and ventilation/HVAC systems constantly working. MAXX™ products are designed to withstand these challenging environments and provide increased operating efficiency.



Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

### Watertight Wall Mount PIR Sensor

IP66, NEMA 4X, outdoor rated, heavy duty wall or pendant mount sensor with -40°F to 149°F (-40°C to 65°C) operating temperature range and 160° of coverage.

Description	Voltage	Catalog Number
PIR sensor, with isolated relay and photocell	24V DC	<b>AHP1600WRP</b>
Adaptor plate for single gang FS boxes	—	<b>HAP1</b>
Adaptor hub and nipple for Killark NJ series boxes	—	<b>HAP2</b>
Adaptor plate for Killark® NV series boxes	—	<b>HAP3</b>
½" NPT threaded hub	—	<b>HAP4</b>

Note: For use with CU300HD (120/277V AC, 50/60Hz) control unit.  
 See page E-22 for technical specifications and coverage patterns.



**AHP1600WRP**

### Extreme Temperature PIR Ceiling Sensor

Upgraded ceiling sensor with -40°F to 149°F (-40°C to 65°C) operating temperature range. Use ACIPE to make NEMA 4X watertight.

Description	Voltage	Catalog Number
Sensor with isolated relay and photocell	24V DC	<b>AHP1500CRP</b>
IP66, NEMA 4X enclosure	—	<b>ACIPE</b>

Note: For use with CU300HD (120/277V AC, 50/60Hz) control unit.  
 See page E-22 for technical specifications and coverage patterns.



**AHP1500CRP**  
with ACIPE

### Heavy Duty Control Unit

Robust latching relay provides reliable performance over many different applications, including plug loads. 20A 100-277V AC, 1HP @ 120V AC, 2HP @ 240/277V AC. Auto or Manual-ON operation. Powers up to six low voltage sensors.

Description	Voltage	Catalog Number
Heavy duty control unit	120-277V AC	<b>CU300HD</b>

Note: See page E-19 for technical specifications.



**CU300HD**

### OPTIMYZER® Watertight End Mount PIR Sensor

IP65, NEMA 3R, outdoor rated, -40°F to 149°F (-40°C to 65°C) operating temperature range.

Description	Voltage	Catalog Number
Single relay with photocell	120-347V AC	<b>HMHB21UPCW</b>
2 relays with photocell	120-347V AC	<b>HMHB22UPCW</b>
1 double pole relay with photocell	208, 240V AC	<b>HMHB23APCW</b>
1 double pole relay with photocell	480V AC	<b>HMHB23BPCW</b>
Low voltage with photocell	24V DC	<b>HMHB2LVPCW*</b>

Note: 360° high bay lens included. Low bay lens options sold separately, see below for details.  
 \*For use with CU300HD (120/277V AC, 50/60Hz) control unit.  
 See page E-23 for technical specifications and coverage patterns.



**HMHB21UPCW**

### Replacement Lenses

Description	High Bay	Low Bay
180° Lens	<b>HMHBL180</b>	<b>HMLBL180</b>
360° Lens	<b>HMHBL360</b>	<b>HMLBL360</b>
Aisle lens	<b>HMHBLA</b>	<b>HMLBLA</b>
End of aisle lens	<b>HMHBLEA</b>	<b>HMLBLEA</b>





ASHRAE 90.1-2010 mandates that 50% of all outlets in private offices, open offices, and computer classrooms must be automatically controlled by occupancy or time based schedules. This also includes outlets in modular furniture. Hubbell provides solutions for compliance that are cost effective and installer friendly. Below are two examples. Additional examples and design resources are located at [www.hubbell-wiring.com/energy.aspx](http://www.hubbell-wiring.com/energy.aspx)

### Wired

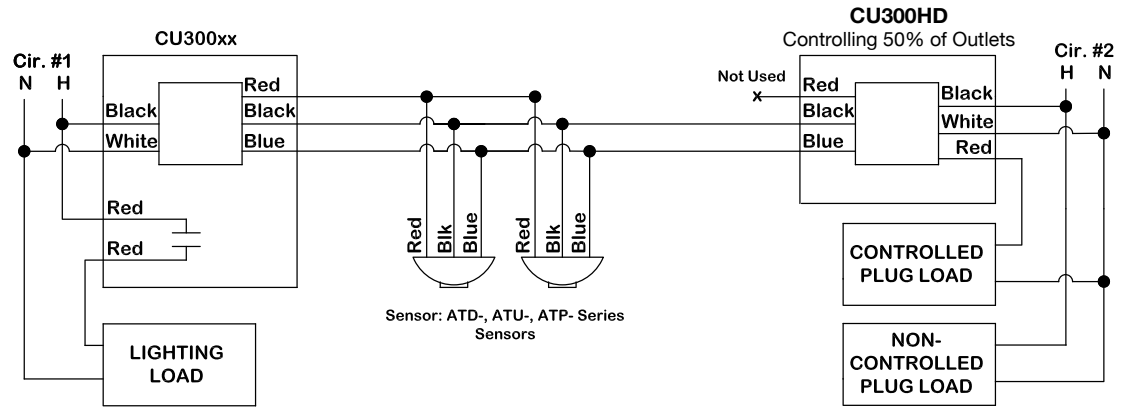
Utilizing low voltage wiring provides installers with a familiar method of wiring and installation. Specify CU300HD to control outlets and use AAR or CU300A to control the lighting. Utilize alternating outlet or split receptacle wiring as required to control at least 50% of the outlets in the space.



BR15C1WHI



BR20C2WHI



### Wireless

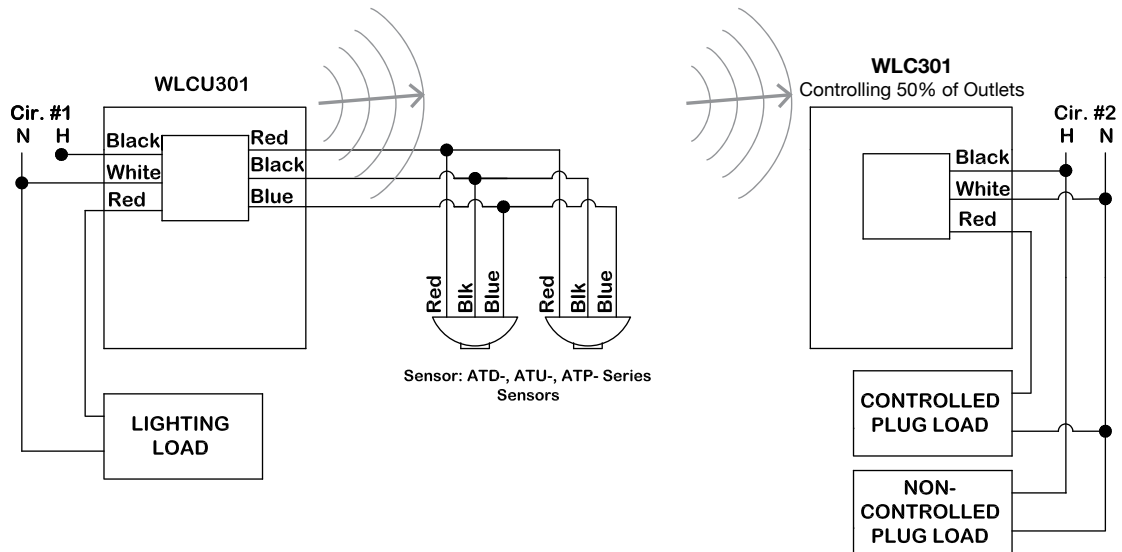
Wireless communication takes complexity out of retrofit and difficult installations by eliminating low voltage wires running between lighting and receptacle control units. This gives installers flexibility to quickly deploy, add additional devices, and configure and re-configure the system as needed. Hubbell's WL series controls utilize Clear Connect™ communication and are compatible with other Clear Connect™ devices, such as Hubbell's wireless occupancy sensors.



DR15C1I



DR20C2I



Clear Connect™ is a registered trademark of Lutron Electronics Co., Inc.

### Hubbell Plug Load Control Products

- Wired or wireless flexibility
- Listed for 20A enclosed switching
- Heavy duty 60A rated mechanical latching relay; silver alloy contacts
- 24V DC, 250mA DC power output on applicable units
- Low voltage output short circuit protection
- UL2043 plenum rated except WLC402W
- Compatible with most LED and CFL
- Zero cross switching

## Wired

### Heavy Duty Control Unit

Robust latching relay provides reliable performance over many different applications, including plug loads. 20A 100-277V AC, 1HP @ 120V AC, 2HP @ 240/277V AC. Auto or Manual-ON operation. Powers up to six low voltage sensors.

Description	Voltage	Catalog Number
Heavy duty control unit	100-277V AC	<b>CU300HD</b>
Heavy duty latching relay; for use with CU300HD		<b>AAR20P</b>

Note: See page E-25 for technical specifications and wiring schematics.

### Straight Blade Specification Grade Receptacles Pre-Marked for Plug Load Applications

Description	Color	15A Duplex	20A Duplex	15A Decorator	20A Decorator
Receptacles marked permanently for Plug Load applications	Ivory Light Almond White	<b>BR15C1I</b> <b>BR15C1LA</b> <b>BR15C1WHI</b>	<b>BR20C2I</b> <b>BR20C2LA</b> <b>BR20C2WHI</b>	<b>DR15C1I</b> <b>DR15C1LA</b> <b>DR15C1WHI</b>	<b>DR20C2I</b> <b>DR20C2LA</b> <b>DR20C2WHI</b>

Note: See Section A for additional products and colors.



**CU300HD**



**BR15C1WHI**

**DR20C2I**

## Wireless

Operates in a “quiet” 434MHz FCC band. Range: 30 feet obstructed or 60 feet line of sight.

### Heavy Duty Control Unit with Wireless Transmitter

CU300HD with functionality of WLCA integrated to wirelessly activate additional load control units. 20A 100-277V AC, 1HP @ 120V AC, 2HP @ 240/277V AC. Auto or Manual-ON operation. Powers up to six low voltage sensors.

Description	Voltage	Catalog Number
Heavy duty control unit with Clear Connect™	100-277V AC	<b>WLCU301</b>



**WLCU301**

### Wireless Status Transmitter

Low voltage powered unit transmits occupancy or timer status to associated load control receivers. Use with CU300xx and low voltage sensors/timers to upgrade existing lighting control systems to support plug load control.

Description	Voltage	Catalog Number
Wireless transmitter with Clear Connect, for use with CU300xx	24V DC	<b>WLCA</b>



**WLCA**

### Heavy Duty Load Control Units with Wireless Receiver

These units receive wireless Clear Connect™ commands to turn ON and OFF power to downstream loads. Utilize these control units to wirelessly switch a circuit of receptacles or any other applicable load. 20A 100-277V AC, 1HP @ 120V AC, 2HP @ 240/277V AC.

Description	Voltage	Catalog Number
Single (1) circuit heavy duty control unit with Clear Connect™	100-277V AC	<b>WLC301</b>
Dual (2) circuit heavy duty control unit with Clear Connect™	100-277V AC	<b>WLC302</b>



**WLC301**



**WLC302**

### Furniture Feed Box with Heavy Duty Relays and Wireless Receiver

Furniture feed box receives wireless Clear Connect™ commands and controls two circuits in furniture electrical feeds. It supports wall mounting to existing 1 or 2-gang junction boxes. Additionally, the box can be secured to the furniture or on the floor. 20A 100-277V AC, 1HP @ 120V AC, 2HP @ 240/277V AC.

Description	Voltage	Catalog Number
Dual (2) circuit heavy duty furniture feed box with Clear Connect™	100-277V AC	<b>WLC402W</b>

Note: See page E-25 for technical specifications and wiring schematics.



**WLC402W**

Clear Connect™ is a registered trademark of Lutron Electronics Co., Inc.

H-MOSS® Controls  
**WL-Series Wireless Sensors and Controls**

Features and Benefits

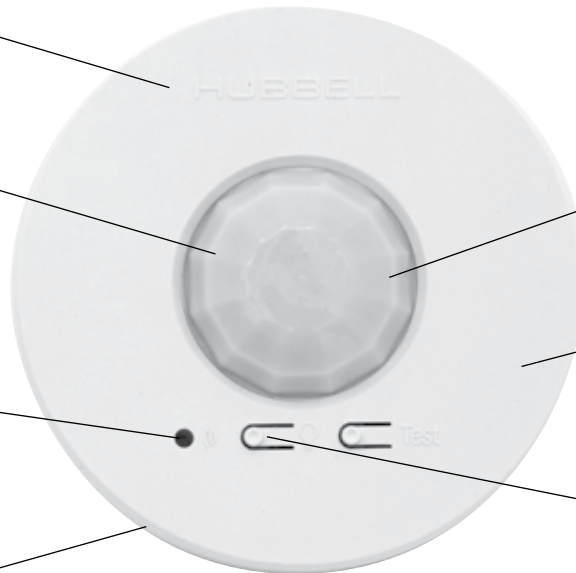


Three operation modes available:  
 Auto-ON, Auto-ON Low-Light  
 and Manual-ON

Passive infrared motion detection  
 with advanced digital signal  
 processing for fine motion  
 detection

Auto-ON Low-Light feature will  
 only turn lights on automatically  
 if there is less than approximately  
 10 Lux (1 foot candle) of  
 ambient light

10-year battery life design

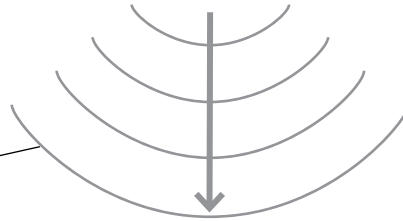


**WLP450C**

Lens illuminates during  
 test mode to verify  
 coverage

Adjustments available  
 for Timeout, Activity,  
 and Auto-ON settings

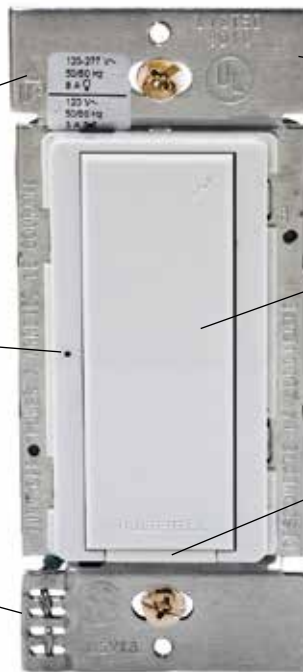
Accessible test buttons  
 make setup easy



8A lighting, 3A fan  
 load capacity

Green LED provides  
 operation and setup  
 feedback

No neutral required,  
 no leakage to ground



**WLS1278W**

LED and CFL compatible  
 with supplied load adaptor

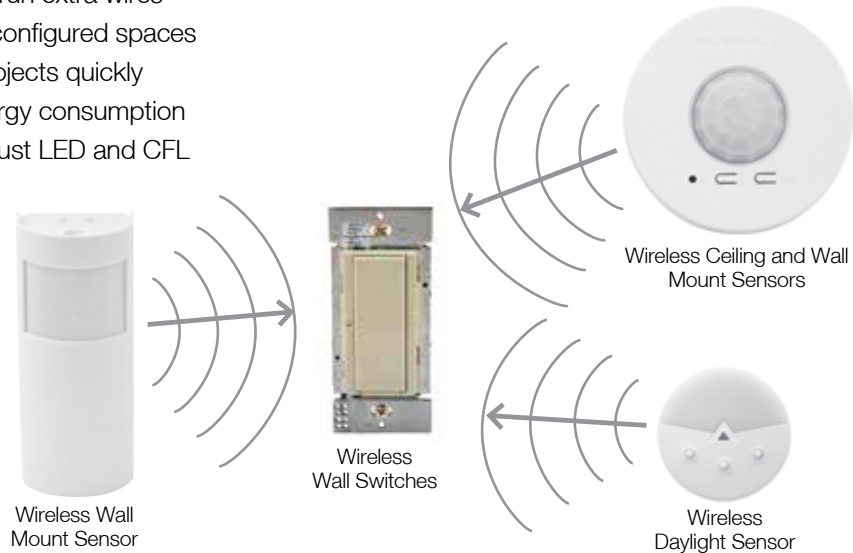
Digital push button  
 operation provides user  
 control

Service switch prevents  
 lights from coming on  
 during re-lamping

Clear Connect™ is a registered trademark of Lutron Electronics Co., Inc.

Hubbell's WL-Series Wireless Sensors and Controls are the ideal solution for renovation projects aimed at reducing energy consumption. These sensors use DSP Enhanced passive infrared technology to detect movement of heat from people to turn lights ON when a room is occupied and OFF when vacant. The sensors wirelessly transmit Clear Connect™ commands to the associated control devices, reducing the need for additional wiring for ease and speed of installation and energy savings.

- Eliminates need to run extra wires
- Supports highly reconfigured spaces
- Helps complete projects quickly
- Helps manage energy consumption
- Compatible with most LED and CFL



### Wireless Wall Switches

Description	Color	Catalog Number
8A Lighting, 3A Fan (1/10 HP motor, 120V AC only), Spec Grade Electronic Switch 120–277V AC; no neutral wire required	Ivory White	<b>WLS1278I</b> <b>WLS1278W</b>
Accessory Switch 120V AC	Ivory White	<b>WLAS120I</b> <b>WLAS120W</b>
Accessory Switch 277V AC	Ivory White	<b>WLAS277I</b> <b>WLAS277W</b>



Compatible Transmitters: WLP series and WLDH sensors, or any Lutron Clear Connect enabled sensor.

### Wireless Ceiling Mount Sensor

Description	Color	Catalog Number
Ceiling mount 360° / 324-676 sq. ft.	White	<b>WLP450C</b>



**WLP450C**

### Wireless Wall Mount Sensor

- Detection at longer distances is best when motion occurs at right angles to the sensor
- Mount Hallway Sensor at the end of a hallway with a clear view down the length of a hall
- Multiple sensors can be used to extend coverage

Description	Wall mount 180° / 3000 sq. ft.	Corner mount 90° / 2500 sq. ft.	Hallway up to 150 linear feet
Color	White	White	White
Catalog Number	<b>WLP3000W</b>	<b>WLP2500W</b>	<b>WLP150H</b>



**WLP150H**

Compatible Controls: WSL1278xx switch, WLC316R control unit, or any Lutron Clear Connect enabled control device.

### Wireless Control Unit

Description	Catalog Number
Wireless load control unit with isolated relay, 16A, 120V AC or 277V AC	<b>WLC316R</b>



**WLC316R**

### Wireless Daylight Sensor

Description	Color	Catalog Number
Daylight sensor 0–107,000 Lux (0–10,000 foot candles)	White	<b>WLDH</b>



**WLDH**

Compatible Controls: WSL1278xx switch, WLC316R control unit, or any Lutron Clear Connect enabled control device.

Note: See pages E-26 to E-28 for technical specifications, coverage patterns and wiring schematics.

Clear Connect™ is a registered trademark of Lutron Electronics Co., Inc.

# H-MOSS® Controls

## Specifications and Coverage Patterns

### Wall Switches

#### Adaptive Dual Technology Wall Switches

Electrical	AD2000 Series
Power Supply	120/277V AC, 50/60Hz
Load Capacity	
Incandescent	0 to 800 watts
120V Ballast	0 to 1000 watts
277V Ballast	0 to 1800 watts
Motor Load	1/4HP
Agency Approvals	cULus Listed

Physical	AD2000 Series
Housing	High impact plastic (UL 94-5V)
Lens	Dual element pyrometer and 12 element cylindrical hard lens (AP2000 only)
Dimensions	Face 2.57"H x 1.71"W, 0.53"D (from wall out)
Mounting Height	42 to 54 inches above floor

Environmental	AD2000 Series
Operating	32° F to 104°F (0°C to 40°C); 0% to 95% non-condensing relative humidity

Controls	AD2000 Series
Time Delay	Digital, adaptive 4 to 30 minutes
Ambient Light	Adjustable ambient light override, 10 to 500 foot candles
Front Press Switch	Auto/OFF
Sensitivity	Adaptive 0% to 100%
Service Switch	Air gap OFF

Sensing Indicator	AD2000 Series
Passive Infrared	Red LED (AD series only)
Ultrasonic	Green LED (AD series only)

#### Adaptive Technology Ultrasonic and PIR Wall Switches

Electrical	AP2000 and AU2000 Series
Power Supply	120/277V AC, 50/60Hz
Load Capacity	
Incandescent	0 to 800 watts
120V Ballast	0 to 1000 watts
277V Ballast	0 to 1800 watts
Motor Load	1/4HP
Agency Approvals	cULus Listed

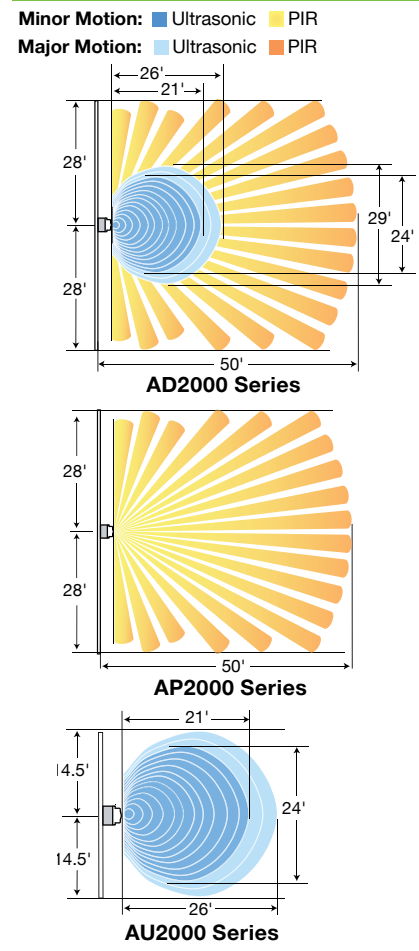
Physical	AP2000 and AU2000 Series
Housing	High impact plastic (UL 94-5V)
Lens	Dual element pyrometer and 12 element cylindrical hard lens (AP2000 only)
Dimensions	Face 2.57"H x 1.71"W, 0.53"D (from wall out)
Mounting Height	42 to 54 inches above floor

Environmental	AP2000 and AU2000 Series
Operating	32° F to 104°F (0°C to 40°C); 0% to 95% non-condensing relative humidity

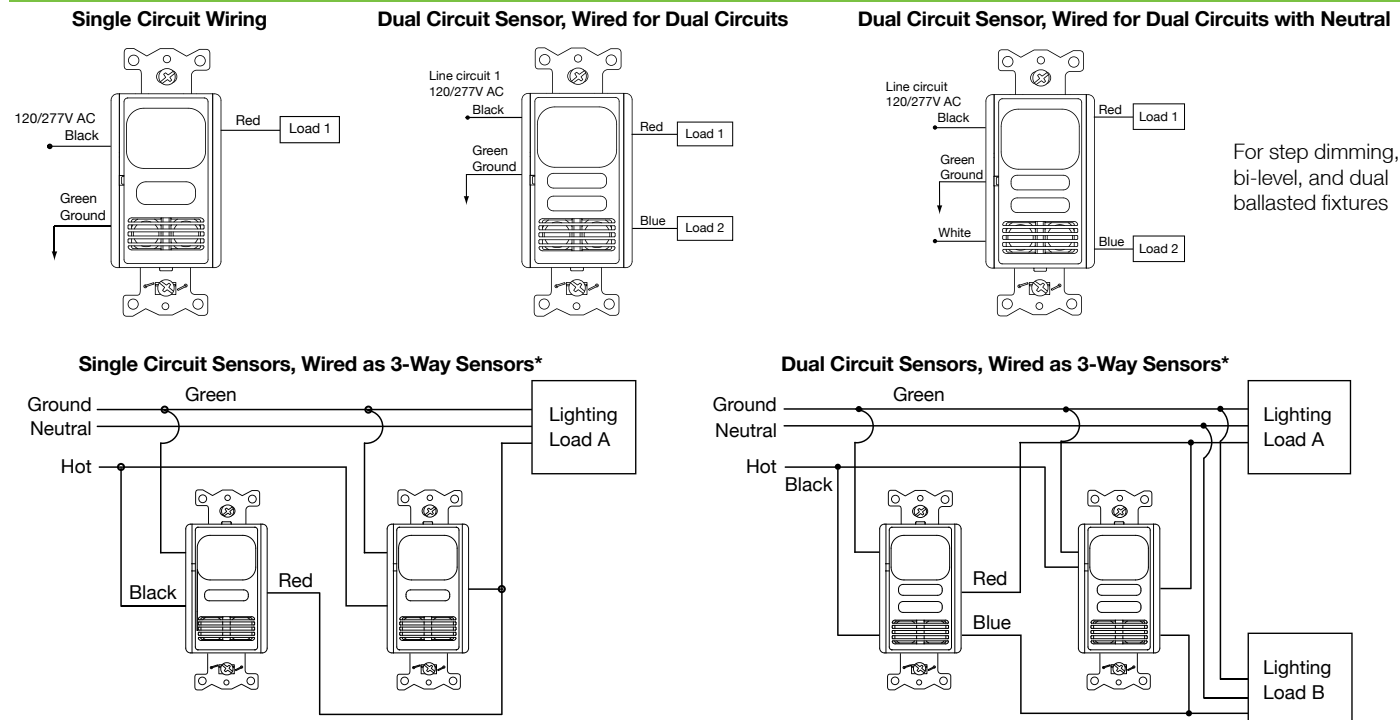
Controls	AP2000 and AU2000 Series
Time Delay	Digital, adaptive 4 to 30 minutes 20 minutes default
Ambient Light	Adjustable ambient light override, 10 to 500 foot candles
Front Press Switch	Auto/OFF
Sensitivity	Adaptive 0% to 100%
Service Switch	Air gap OFF

Sensing Indicator	AP2000 and AU2000 Series
Passive Infrared	Red LED (AP series only)
Ultrasonic	Green LED (AU series only)

#### Wall Switches Coverage Patterns



#### Wiring Schematic AD, AU, AP, 2000 Series Wall Switch Sensors



Note: \*Load can not exceed the rating of one switch.  
Sensor is shipped with all dip switches in the OFF position (factory default).



# H-MOSS® Controls Specifications and Wiring Schematics

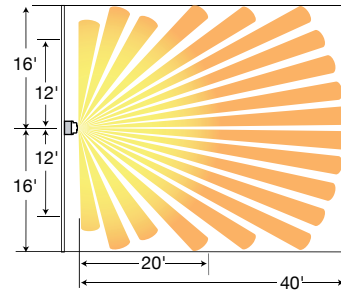
## Wall Switches

### Adaptive Technology PIR Wall Switches ATP2000, WS2000 and WS1000 Series

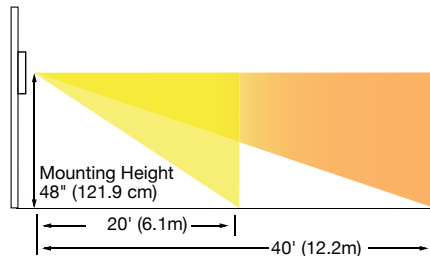
Electrical	ATP/WS2000 Series	WS1000 Series
Power Supply	120/277V AC, 60Hz	120V AC, 60Hz
Load Capacity		
Incandescent	0 to 1000 watts	0 to 500 watts
120V Ballast	0 to 1000 watts	0 to 500 watts
277V Ballast	0 to 1800 watts	N/A
Agency Approvals	cULus Listed	cULus Listed
Warranty	5 years	5 years
Physical	ATP/WS2000 and WS1000 Series	
Housing	Flame retardant UL 94 V-0 ABS	
Lens	Polyethylene	
Dimensions	Face 2.59"H x 1.30"W, 0.61"D (from wall out)	
Mounting Height	42 to 54 inches above floor	
Environmental	ATP/WS2000 and WS1000 Series	
Operating	32°F to 122°F (0°C to 50°C) with rate of change not exceeding 20°F (11°C) per hour; 20% to 90% non-condensing relative humidity	
Storage	-40°F to 150°F (-40°C to 65°C); 20% to 90% non-condensing relative humidity	
Controls	ATP/WS2000 Series	WS1000 Series
Time Delay	ATP: Auto WS: Manual 20 seconds to 30 minutes	Manual 20 seconds to 30 minutes
Ambient Light	Digital, pushbutton, 10 to 500 foot candles	N/A
Front Press Switch	ON/OFF	ON/OFF
Service Switch	OFF (service) Vac (manual-ON) Occ (auto-ON)	OFF (service) ON (normal operation)
Sensing Indicator	ATP/WS2000 and WS1000 Series	
Passive Infrared	Red LED	

### Wall Switches Coverage Patterns

Minor Motion: ■ PIR      Major Motion: ■ PIR



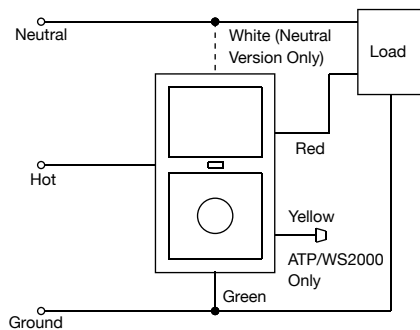
ATP2000, WS1000, WS2000 Series



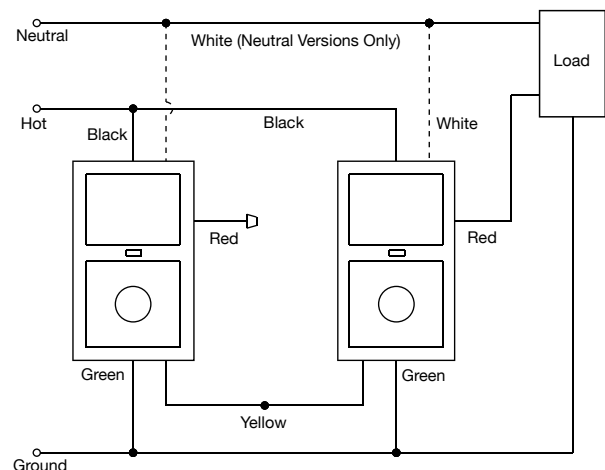
Vertical Coverage  
ATP2000, WS1000, WS2000 Series

### Wiring Schematic ATP2000, WS1000 and WS2000 Series Wall Switches

#### Normal Wiring



#### Sensors Wired as 3-Way Sensors\* (ATP/WS2000 Only)



Note: \*Load can not exceed the rating of one switch.

# H-MOSS® Controls

## Specifications and Coverage Patterns

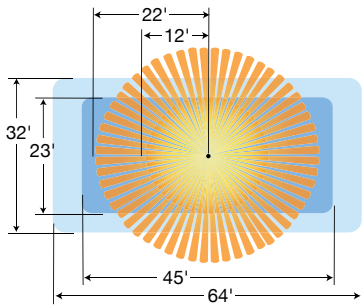
Ceiling and Wall Mount Sensors

### Adaptive Dual Technology, Ultrasonic and Passive Infrared Ceiling and Wall Mount Sensors ATD, ATU, and ATP Series

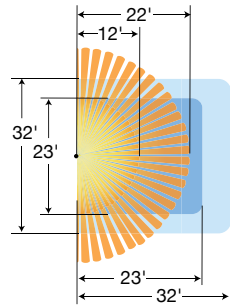
Electrical		
Power Requirements	24V DC nominal, 33mA from Hubbell CU series control unit	
Isolated Relay (sensors with RP suffix)	Normally open and normally closed; terminals available	
Agency Approvals	UL Listed	
Physical		
Ceiling Sensors	Wall Mount Sensors	
Housing	Flame retardant UL 94 V-0 ABS	Flame retardant UL 94 V-0 ABS
Lens	Polyethylene	Polyethylene
Dimensions	1.5"H x 4.5"D	6"H x 2"W x 1.5"D
Color	Office white	Office white
Mounting Height	8 to 12 feet	8 to 12 feet, 8 to 30 feet (ATP120HB series)
Environmental		
Operating	32°F to 104°F (0°C to 40°C) with rate of change not exceeding 20°F (11°C) per hour; 0% to 95% non-condensing relative humidity	
Storage	-20°F to 150°F (-29°C to 65°C); 0% to 95% non-condensing relative humidity	
Controls		
Time Delay	Test (8 seconds), adaptive 8 to 40 minutes	
Ambient Light	1 to 1000 foot candles	
Sensitivity	Adaptive 0 to 100%	
Sensing Indicators		
Ultrasonic (ATD and ATU Series)	Green LED	
Passive Infrared (ATD and ATP Series)	Red LED	

### Ceiling Sensors Coverage Patterns

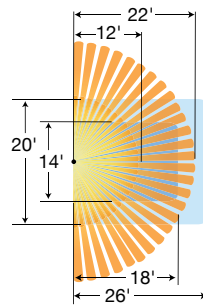
Minor Motion: ■ Ultrasonic ■ PIR    Major Motion: ■ Ultrasonic ■ PIR



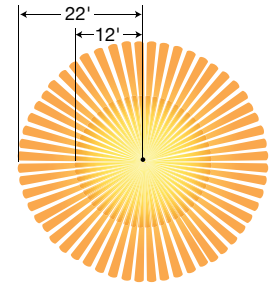
ATD2000C Series



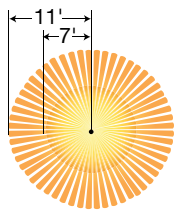
ATD1000C Series



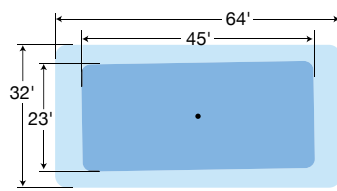
ATD500C Series



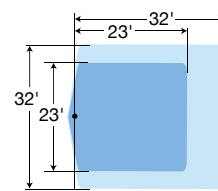
ATP1500C Series



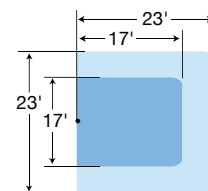
ATP600C Series



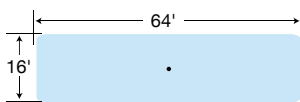
ATU2000C Series



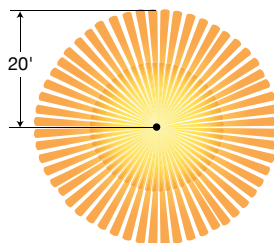
ATU1000C Series



ATU500C Series



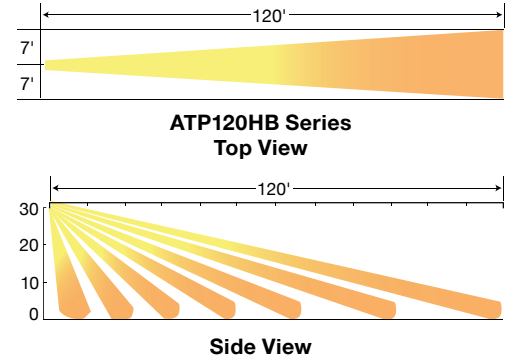
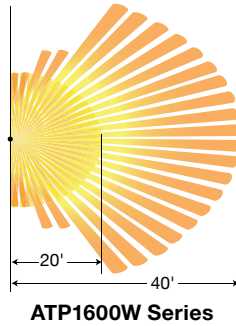
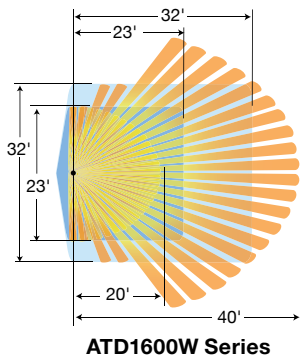
ATU2000C Series  
Hallway Application



LVPR1500R(P)

**Wall Mount Sensors Coverage Patterns**

**Minor Motion:** ■ Ultrasonic ■ PIR    **Major Motion:** ■ Ultrasonic ■ PIR



**Control Units - CU300/347A Series**

Electrical	CU300A(M)	CU347A	CU300HD
Power Supply	120-277V AC, 50/60Hz	347V AC, 60Hz	100-277V AC, 50/60Hz
Power Output	24V DC, 150mA	24V DC, 100mA	24V DC, 250mA
Load Capacity			
Incandescent, LED & CFL	0 to 1800 watts	N/A	20A, 100-277V AC; 1HP @ 120V AC, 2HP @ 240/277V AC
120V Ballast	0 to 2400 watts	N/A	Motor Loads:
230V Ballast	N/A	N/A	1HP @ 120V
277V Ballast	0 to 5540 watts	N/A	2HP @ 240/277V
347V Ballast	N/A	0 to 5205 watts	
AT Sensor/AAR Capacity	1 to 4 combined	1 to 3 combined	1 to 6 combined
Agency Approvals	UL Listed, cULus Certified	UL Listed, cULus Certified	UL Listed, cULus Certified
<b>Physical</b>			
Housing	Flame retardant UL 94-5VA thermoplastic		Flame retardant UL 94-5VA thermoplastic
Dimensions	3.69"L x 2.33"W x 1.36"H		4.00"L x 3.4"W x 1.73"H
Color	Black		Black
<b>Environmental</b>			
Operating	32°F to 104°F (0°C to 40°C); 0% to 90% non-condensing relative humidity		-40°F to 149°F (-40°C to 65°C). Below 32°F (0°C) must use suitably rated non-metallic enclosure. 0% to 90% humidity, non-condensing
Storage	-20°F to 150°F (-29°C to 65°C); 0% to 90% non-condensing relative humidity		

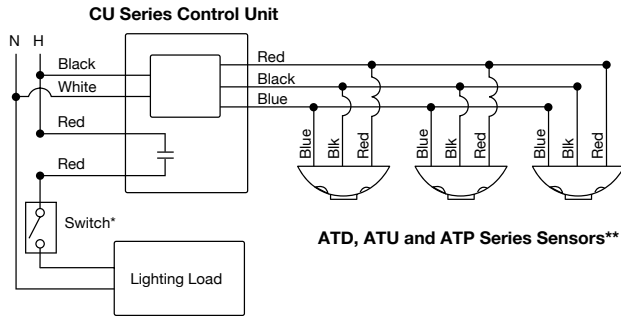
**Add-A-Relay Control Units**

Electrical	AAR	AAR20P
Power Input	24V DC nominal, 33mA from Hubbell CU series control unit	24V DC nominal, 50mA from Hubbell CU300HD series control unit
Load Capacity		
Incandescent, LED & CFL	0 to 1800 watts	20A, 100-277V AC; 1HP @ 120V AC, 2HP @ 240/277V AC
120V Ballast	0 to 2400 watts	Motor Loads
230V Ballast	0 to 3680 watts	1HP @ 120V
277V Ballast	0 to 5540 watts	2HP @ 240/277V
347V Ballast	0 to 5205 watts	
AT Sensor/AAR Capacity		1 to 6 combined
Agency Approvals	UL Listed	UL Listed, cULus Certified
<b>Physical</b>		
Housing	Flame retardant UL 94-5V thermoplastic	Flame retardant UL 94-5VA thermoplastic
Dimensions	3.69"L x 2.33"W x 1.36"H	4.00"L x 3.4"W x 1.73"H
Color	Black	Black
<b>Environmental</b>		
Operating	32°F to 104°F (0°C to 40°C); 0% to 90% non-condensing relative humidity	-40°F to 149°F (-40°C to 65°C). Below 32°F (0°C) must use suitably rated non-metallic enclosure. 0% to 90% humidity, non-condensing
Storage	-20°F to 150°F (-29°C to 65°C); 0% to 90% non-condensing relative humidity	

**Adaptive Dual Technology, Ultrasonic, and Passive Infrared Ceiling and Wall Mount Sensors**  
**ATD, ATU and ATP Series**

**Single Circuit Application:**

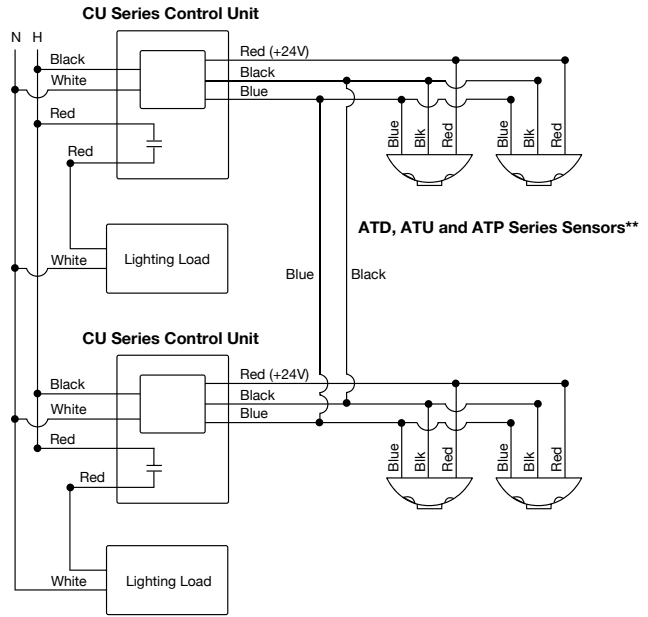
1 to 4 sensors wired to control unit with optional override off switch.



\*Optional Override Off Switch

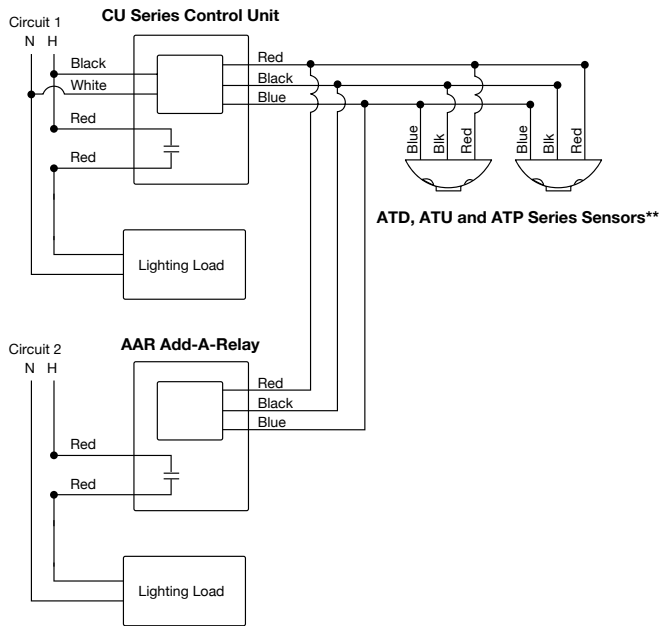
**Single Circuit Application:**

Two control units wired in parallel to operate 5 to 8 sensors in a single zone. Maximum 4 sensors per control unit any sensor will activate lighting.



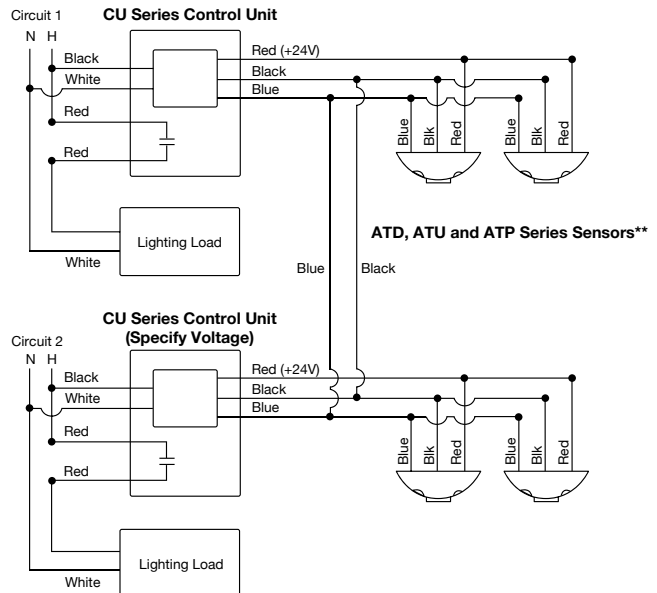
**Two Circuit Application:**

1 to 4 sensors wired to control unit and Add-A-Relay (control unit switches circuit 1, Add-A-Relay switches circuit 2).



**Two Circuit Application:**

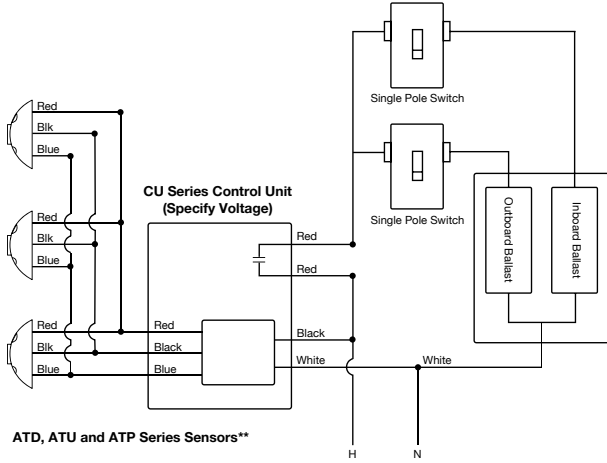
Two control units wired in two circuits to operate 2 to 8 sensors in a single zone. Maximum 4 sensors per control unit any sensor will activate both lighting loads.



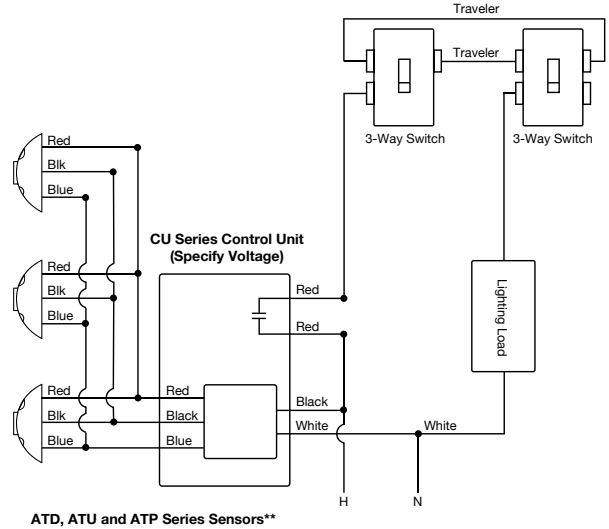
Note: \*\*For wiring sensors with isolated relay and photocell option (models with "RP" suffix): Photocell Option: Cap off Blue sensor wire. Connect Gray sensor wire to Blue control unit wire. Isolated Relay Option: Common-Blue/White wire, Normally Closed-Black/White wire, Normally Open-Yellow/White wire.

**Adaptive Technology Dual, Ultrasonic, and Passive Infrared Ceiling and Wall Mount Sensors  
 ATD, ATU and ATP Series**

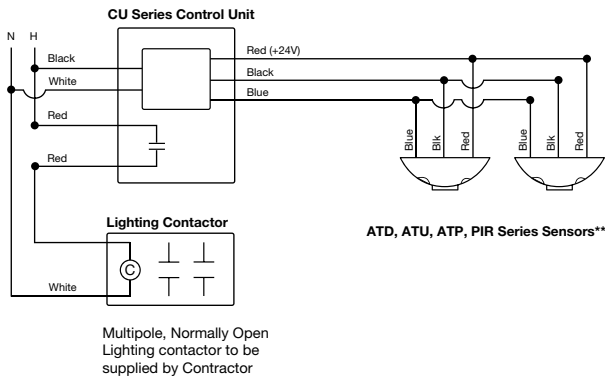
**Single Circuit, Dual Level Switching Application:**  
 1 to 4 sensors wired to control unit with optional override off switches.



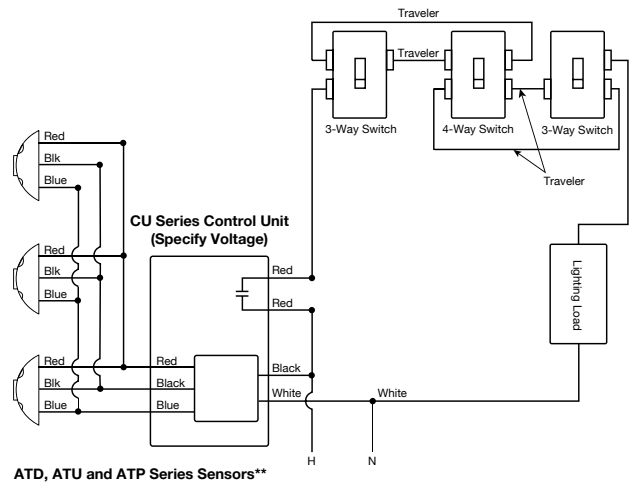
**Single Circuit, 3-Way Switching Application:**  
 1 to 4 sensors wired to control unit with optional override off switches.



**Multi-Circuit Application:**  
 1 to 4 sensors wired to control unit that is wired to a multi-pole lighting contactor.



**Single Circuit, 4-Way Switching Application:**  
 1 to 4 sensors wired to control unit with optional override off switches.



Note: \*\*For wiring sensors with isolated relay and photocell option (models with "RP" suffix): Photocell Option: Cap off Blue sensor wire. Connect Gray sensor wire to Blue control unit wire. Isolated Relay Option: Common-Blue/White wire, Normally Closed-Black/White wire, Normally Open-Yellow/White wire.

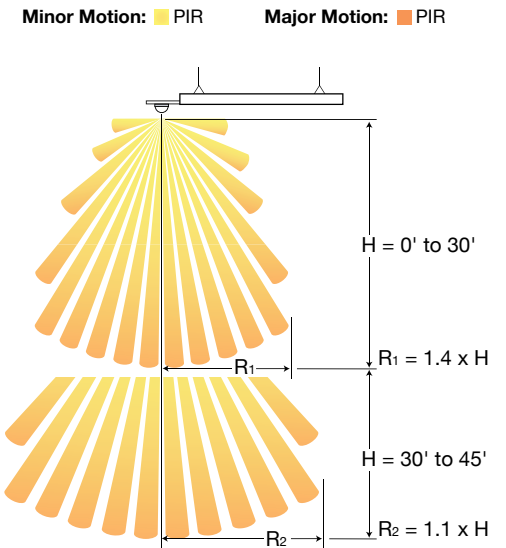




**MAXX™ OPTIMYZER® Watertight End Mount PIR Sensor  
 HMHBxxUPCW Series**

User Interface	(1) twelve pin dip switch	
Timer time-outs	Primary: 8-second test mode, 4, 8, 16 and 30 minute time-outs Secondary: (Can be disabled) 30, 60 and 90 minute time-outs	
Passive infrared	Dual element pyrometer and spherical Fresnel lens	
Daylight sensor	Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person*	
Coverage	360° lens provided, 180° aisle and end-of-aisle lenses also available	
Load ratings (line voltage units)	120V AC: 0 to 800W ballast or tungsten 277V AC: 0 to 1200W ballast 347V AC: 0 to 1500W ballast	208/240V AC: 0 to 1200W ballast 480V AC: 0-2400W ballast ¼ HP motor load @ 120V AC, ⅓ HP @ 347V AC
	Output (Low voltage sensors): • 24V DC active high-logic control signal • Relay: N/O + N/C contacts; 500mA rated @ 24V DC; 3-wire isolated relay	
Operating environment	Indoor and outdoor use Operating temperature: -40°F to 149°F (-40°C to 65°C)	
Construction	Casing: High-impact injection-molded thermoplastic	
Size and weight	Size: 4.0" Diameter x 1.5" Height; Weight: 7 oz.	
Color	White	
Mounting	Mounts directly to end of a fixture through an extended ½ inch chase nipple for deeper body fixtures, an optional Extender Adapter (HMHBSA available separately) positions the sensor flush or below the bottom of the reflector for a full field of view	
Certifications	Conforms to UL STD 508, UL STD 244A, Conforms to IP65	
Warranty	5 year limited	

**Coverage Pattern**

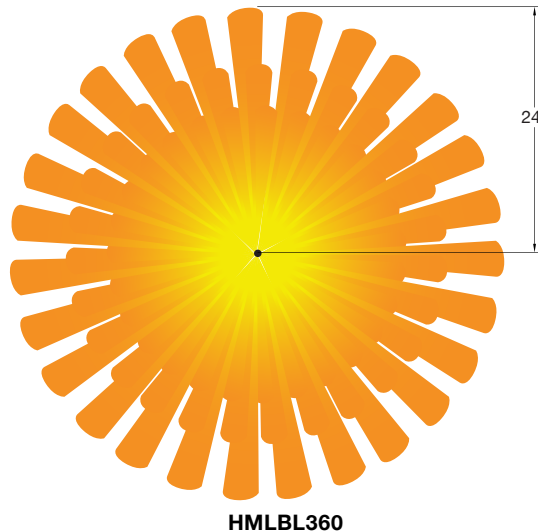


Note: \*When used with program start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.

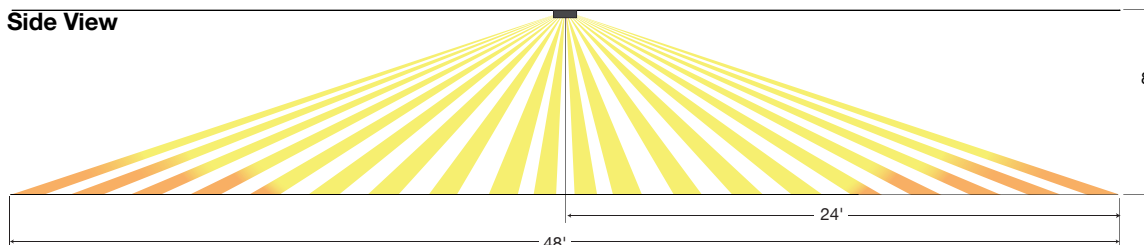
**OPTIMYZER® Low Mount Lens Modification  
 HMLBL 360° Coverage Patterns**

Minor Motion: ■ PIR      Major Motion: ■ PIR

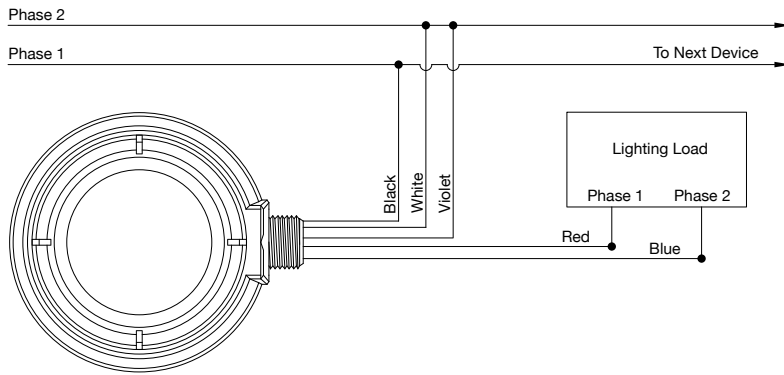
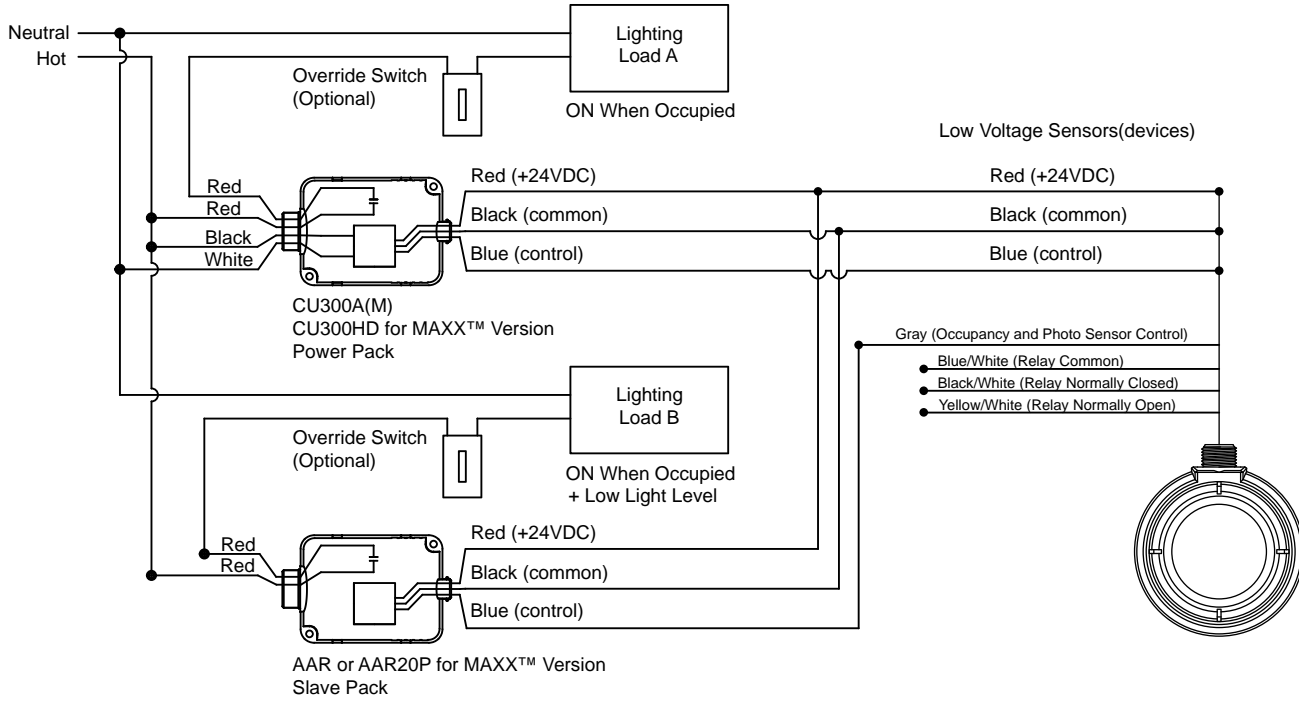
**Top View**



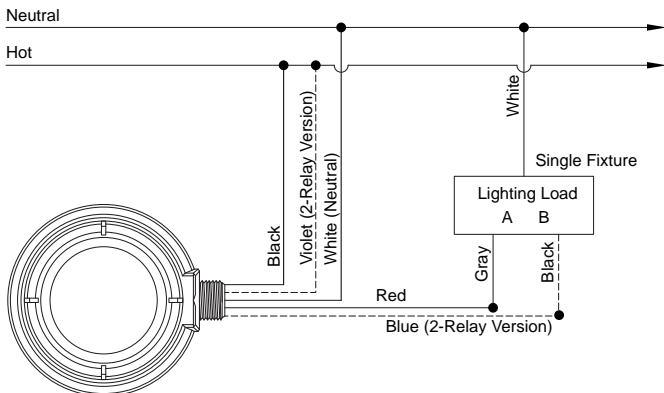
**Side View**



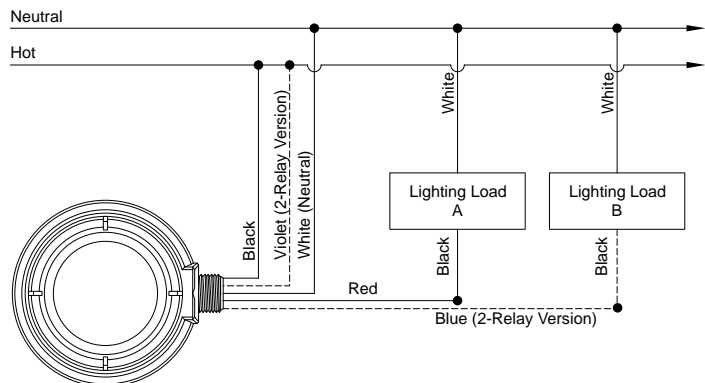
**OPTIMYZER® High Bay Controls**  
**HMHB Series, Low Voltage Sensor with Control Unit**



**OPTIMYZER® High Bay Controls**  
**HMHB Series, Dual Relay, Single Fixture**



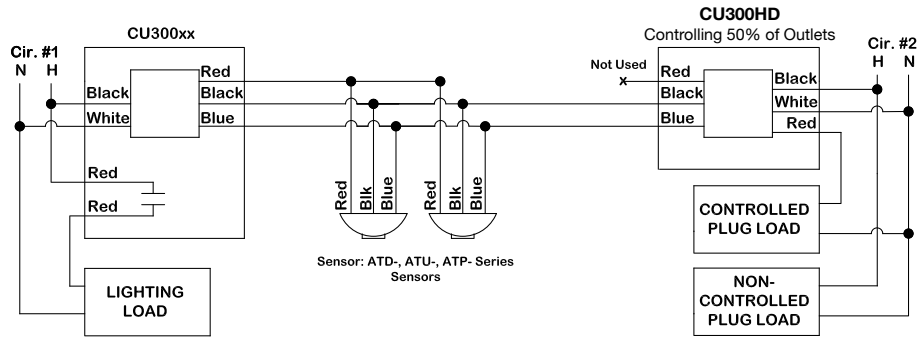
**OPTIMYZER® High Bay Controls**  
**HMHB Series, Dual Relay, Two Fixtures**



**WLC Load Control with Wireless Clear Connect Communication**

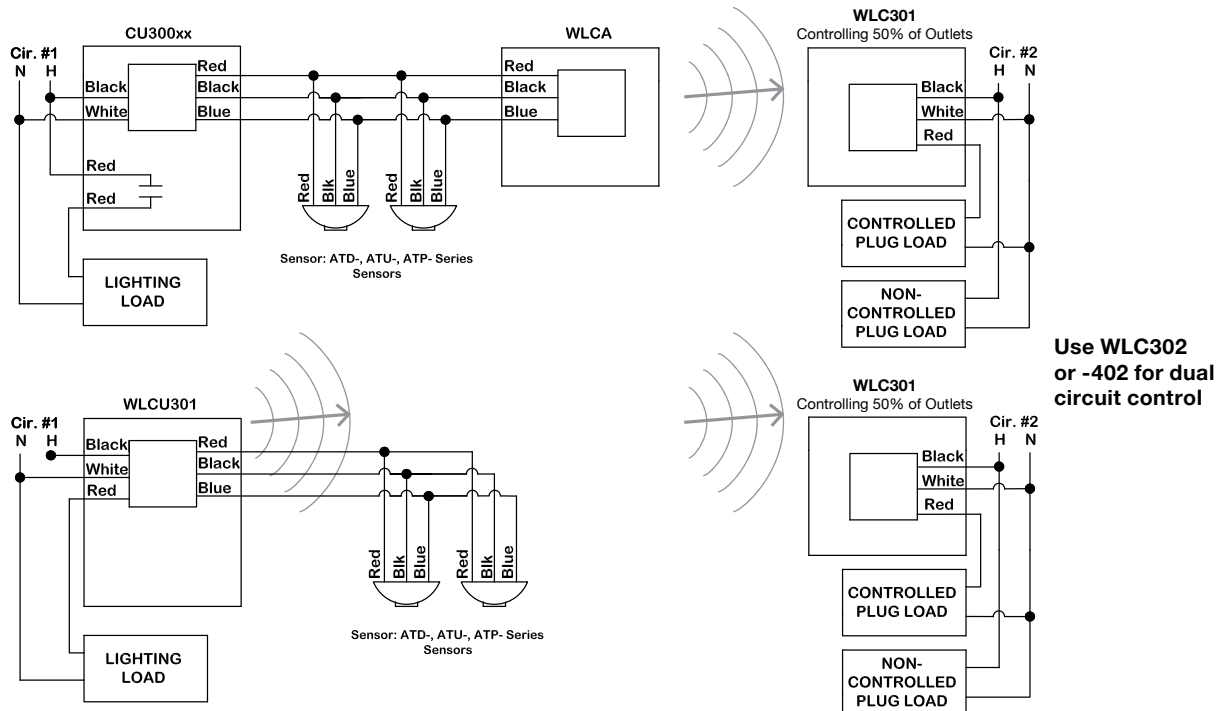
Electrical	WLCA	WLCU301	WLC301	WLC302	WLC402W
Power Supply	24V DC	100-277V AC, 50/60Hz	100-277V AC, 50/60Hz	100-277V AC, 50/60Hz	100-277V AC, 50/60Hz
Power Output	N/A	24V DC 250mA	N/A	N/A	N/A
Circuits Controlled	N/A	1	1	2	2
Load Capacity		100-277V AC, 20A 1HP @ 120V AC 2HP @ 240/277V AC	100-277V AC, 20A 1HP @ 120V AC 2HP @ 240/277V AC	100-277V AC, 20A 1HP @ 120V AC 2HP @ 240/277V AC	100-277V AC, 20A 1HP @ 120V AC 2HP @ 240/277V AC
Agency Approvals	UL Listed, cULus, FCC, IC, UL/cUL 916 listed for energy management equipment				
Device Type (Transmit or Receive)	TX	TX	RX	RX	RX
Range (Standard/Obstructed)	30 ft. (10m)	30 ft. (10m)	30 ft. (10m)	30 ft. (10m)	30 ft. (10m)
Range (Unobstructed, line of sight)	60 ft. (30m)	60 ft. (30m)	60 ft. (30m)	60 ft. (30m)	60 ft. (30m)
<b>Physical</b>					
Housing	Flame retardant UL 94-5VA thermoplastic				
Dimensions	4.00"L x 3.4"W x 1.73"H				4.68"L x 4.94"W x 2.78"H
Color	Black	Black	Black	Black	White

**Wired Lighting and Plug Load Control**



**Wireless Lighting and Plug Load Control**

Easily upgrade existing occupancy based lighting control systems to support automated plug load controls.



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# H-MOSS® Controls Specifications and Coverage Patterns

WL-Series Wireless Sensors

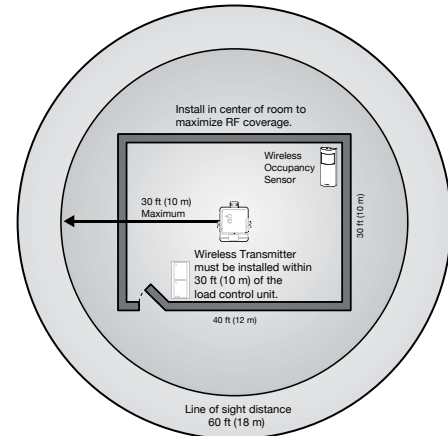
## Wireless Wall Switch (WLS1278 Series)

Electrical	Operating voltage: 120/277V AC, 50/60Hz; Green indicator light
Operating Environment	Indoor use only Ambient operating temperature: 32°F to 104°F (0°C to 40°C); relative humidity: 0% to 90% humidity, non-condensing
Wire Size	#20 to 16 AWG (0.5 to 1.5mm <sup>2</sup> ) solid or stranded wire
Capacity	Up to 9 WLAS accessory switches can be configured to work together with one WLS1278
Range	RF range is 30 ft. (10m) obstructed, 60 ft. (18m) line of sight
Certifications	UL Listed, CSA Certified, FCC Approved; Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules
Warranty	1 year

## Wireless Control Unit (WLC316R)

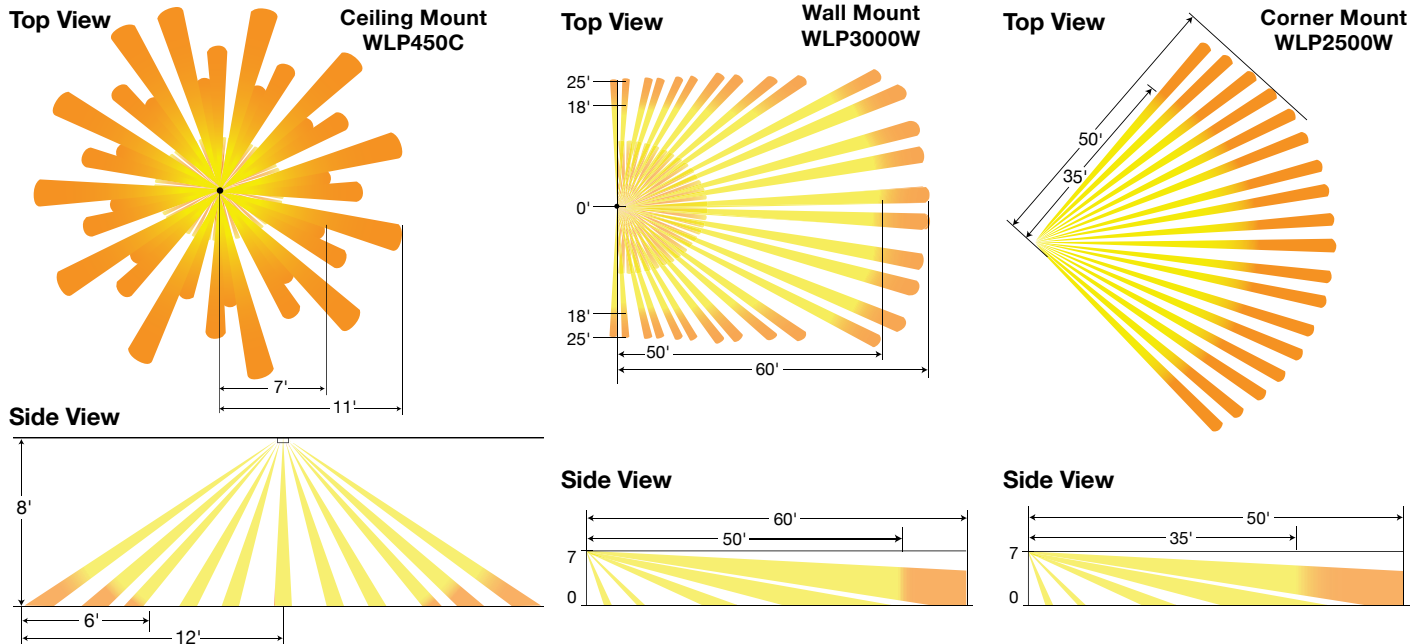
Electrical	Operating voltage: 120/277V AC, 50/60Hz LED status indicator: displays load status and provides programming feedback Power failure memory: (Relay returns to previous level prior to interruption) Output is non-latching
Operating Environment	Indoor use only Ambient operating temperature: 32°F to 131°F (0°C to 55°C); Relative humidity: 0% to 90% humidity, non-condensing
Load	Maximum load: 16A general purpose. No minimum Motor rating: 0.5 HP (120V AC), 1.5 HP (277V AC)
Isolated Relay	Normally open (NO) and normally closed (NC) dry contacts Maintained latching output The isolated relay is not rated to control unclamped, inductive loads Inductive loads include, but are not limited to relays, solenoids and motors to control these types of equipment
Range	RF range is 30 ft. (10m) obstructed, 60 ft. (18m) line of sight
Certifications	UL Listed, UL 2043 Plenum Rated, FCC Approved. Complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules. CSA and IC
Warranty	1 year

## Range Diagram



Contact Hubbell first for applications using foil-backed or metallic ceiling tiles.

## Wireless Sensor Coverage Patterns



## Sensor Coverage Chart (for sensor mounted in center of room)

Ceiling height	Maximum room dimensions for complete floor coverage*	
8 ft. (2.4m)	18 ft. x 18 ft. (5.5m x 5.5m)	324 sq. ft. (30.2m <sup>2</sup> )
9 ft. (2.7m)	20 ft. x 20 ft. (6.1m x 6.1m)	400 sq. ft. (37.2m <sup>2</sup> )
10 ft. (3.0m)	22 ft. x 22 ft. (6.7m x 6.7m)	484 sq. ft. (44.9m <sup>2</sup> )
12 ft. (3.7m)	26 ft. x 26 ft. (7.9m x 7.9m)	676 sq. ft. (62.4m <sup>2</sup> )

Note: \*12 ft. (3.7m) is the recommended maximum mounting height.

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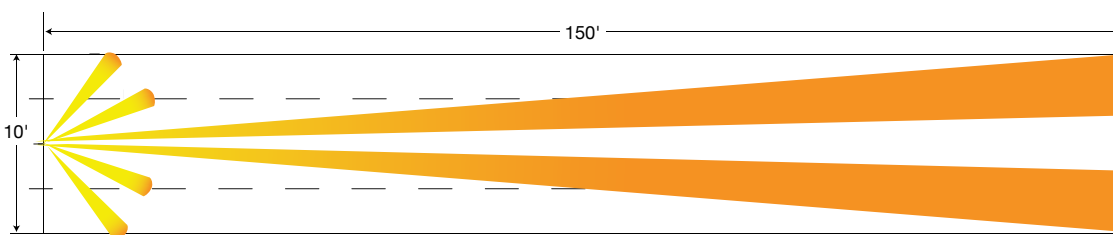


**Wireless Hallway Sensor**

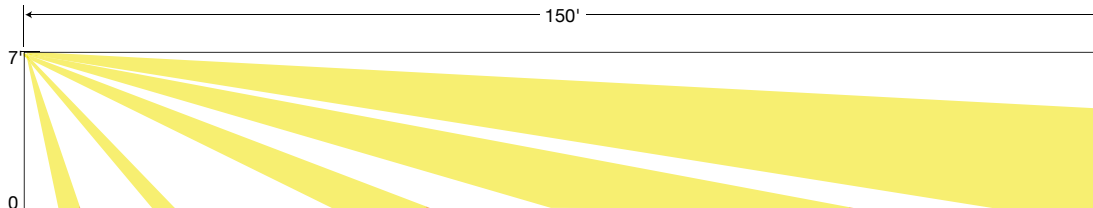
Electrical	Operating voltage: 3V Operating current: 14 µA nominal 10-year battery life design Supplied with one CR 123 lithium battery Non-volatile memory (saved changes are stored during power loss)
Construction	High impact, UL 94-5V plastic
Operating Environment	Indoor use only Operating temperature: 32°F to 104°F (0°C to 40°C)
Range	RF range is 30 ft. (10m) obstructed, 60 ft. (18m) line of sight
Sensor Coverage Test	Dedicated test button Lens illuminates orange in response to motion during test mode
Wireless Communication Test	Dedicated test button; Turn associated loads ON and OFF
Time Out Options	1 minute (intended for use in high-activity, briefly occupied areas only); 5 minutes; 15 minutes (default setting); 30 minutes
Auto-On Options	“Enabled” – Sensor turns lights ON and OFF automatically – default setting “Disabled” – Lights must be turned ON manually from a switching device Sensor turns lights OFF automatically
Sensitivity Options	Low Activity (default setting); Medium Activity; High Activity
Certifications	cULus Listed, FCC Certified, IC Certified Meets CA (USA) Energy Commission Title 24 requirements
Warranty	1 year

**Wireless Hallway Sensor Coverage Patterns**

**Top View**



**Side View**



WLP150H

**Sensor Coverage Chart (Hallway)**

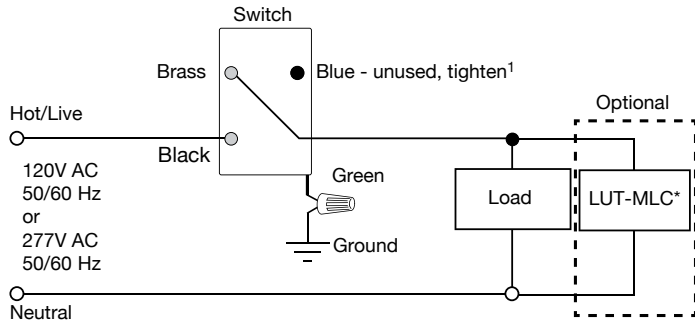
Width of Hall	Length of Hall
6 ft. (1.0m) or less	50 ft. (15.2m)
8 ft. (2.4m)	100 ft. (30.5m)
10 ft. (3.0m) or more	150 ft. (45.7m)

Note: Sensor mounting shown at 7 ft. (2.1m) Mounting height should be between 6 and 8 ft. (1.6 and 2.4m).

Clear Connect™ is a registered trademark of Lutron Electronics Co., Inc.

**Wireless Wall Switch (WLS1278 Series)**

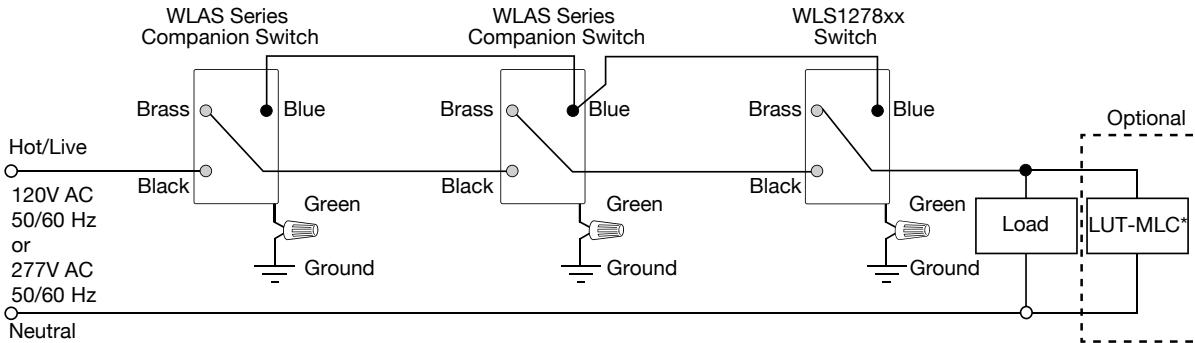
Single Location Installation  
 WLS1278xx\*



Note: \*The included LUT-MLC ensures proper function when fluorescent, CFL, or LED loads are used. Install the LUT-MLC inside a load fixture or in a separate J-box of the circuit.

- 1 When using controls in single location installations, tighten the blue terminal without any wires attached. DO NOT connect the blue terminal to any other wiring or to ground.
- 2 Up to 9 Accessory Switches may be connected to the Wireless Switch. Total blue terminal wire length may be up to 250 ft. (76m).
- 3 Requires WLAS120 for 120V AC applications, and WLAS277 for 277V AC applications.

Multi-Location Installation²  
 with WLAS1278xx or WLAS277xx³



# Section F Switched Disconnects and Enclosures

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Circuit-Lock® Unfused Disconnect Switches



Fused Disconnects, MotorQuick® and VFDs



Hazardous Locations



NEMA 1, 3/3R and 4X Disconnect Switches



# Hubbell's Circuit-Lock® Manual Motor Controllers

"Suitable as Motor Disconnects"

Hubbell manufactures one of the most complete lines of motor disconnects on the market. Designed to ensure maximum reliability and performance, Hubbell Circuit-Lock® motor controllers meet or exceed all industry requirements. Because our Circuit-Lock® motor controllers are also disconnects, they ensure safety, compliance, flexibility and productivity for today's industrial and commercial environments. Whether controlling motor loads, safely terminating power or isolating equipment, Hubbell has the solution for you—no matter what the environment or application.



## Hubbell Flexibility

With Hubbell's wide range of Circuit-Lock® motor controllers and disconnects that offer several mounting options, NEC® line of sight requirements are easily achieved at the equipment or on the wall in virtually any industrial environment. Switches with a compact footprint, a variety of NEMA® type enclosures and plug-and-play LINKOSITY® make switch placement easier and more flexible than ever.



## Hubbell Productivity

Circuit-Lock® keeps assembly lines, goods and services moving. By offering a dual motor controller-disconnect rating, power can be safely terminated at any point in the circuit to perform maintenance on a single motor without shutting down the entire line. With the plug-and-play LINKOSITY® power system, MotorQuick® reduces motor change-out time by more than 65% to get equipment up and running faster.

## Hubbell Safety

Safety of personnel and equipment is paramount in any manufacturing environment. Hubbell Circuit-Lock® motor controllers withstand short circuits and provide a high degree of safety across the factory floor. Disconnect Switches for Variable Frequency Drives (VFDs) safely terminate power to prevent risk of injury and damage to high-performance output devices used for controlling today's conveyor systems.



## Hubbell Compliance

Compliance with codes and regulations is a must in any industrial environment. Hubbell motor controllers meet a variety of requirements, including OSHA lockout/tagout, NSF certification for hygiene and hazardous location ratings. Each Circuit-Lock® motor controller is UL listed as "Suitable as Motor Disconnect". The NEC® allows for the disconnect and controller to be in one unit.



## Variable Frequency Disconnects



## Each Controller is Also a Disconnect



NEC® is a registered trademark of the National Fire Protection Association (NFPA).  
NEMA® is a registered trademark of the National Electrical Manufacturers Association.



## Ratings Quick Reference Guide

### Circuit-Lock® Switched Enclosures

Amp	Description	Phase	Poles	HP				Catalog Number
				120	240	480	600	
30	TYPE 1 Non-Metallic	3	3	3	7.5	15	20	<b>HBL1389MQR</b>
	TYPE 1 Non-Metallic	3	3	3	7.5	15	20	<b>HBL1389MQ5</b>
	TYPE 1 Non-Metallic	3	3	3	7.5	15	20	<b>HBL1389MQR2</b>
	NEMA 1 Aluminum	1	2	2	5	10	15	<b>HBL1372D</b>
	NEMA 1 Aluminum	3	3	3	7.5	15	20	<b>HBL1379D</b>
	NEMA 1 Non-Metallic	1	2	2	5	10	15	<b>HBL1392D</b>
	NEMA 1 Non-Metallic	3	3	3	7.5	15	20	<b>HBL1389D</b>
	NEMA 3/3R Non-Metallic	1	2	2	5	10	15	<b>HBL13R22D</b>
	NEMA 3/3R Non-Metallic	3	3	3	7.5	15	20	<b>HBL13R23D</b>
	NEMA 3R Die Cast Aluminum	1	2	2	5	10	15	<b>HBL13R12D</b>
	NEMA 3R Die Cast Aluminum	3	3	3	7.5	15	20	<b>HBL13R13D</b>
	NEMA 3R Aluminum	1	2	2	5	10	15	<b>HBL13R92D</b>
	NEMA 3R Aluminum	3	3	3	7.5	15	20	<b>HBL13R89D</b>
	IP69k TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3</b>
	IP69k TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3AC</b>
	IP69k TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3AC2</b>
	IP69k TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3NK</b>
	IP69k TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3ACNK</b>
	IP69k TYPE 4X Labelless Non-Metallic	3	3	1	5	10	10	<b>HBLDS33ACNK</b>
	TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3MQR</b>
TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3MQ5</b>	
TYPE 4X Labelless Non-Metallic	3	3	1	7.5	15	15	<b>HBLDS3MQR2</b>	
IP69k TYPE 4X Stainless Steel	3	3	1	7.5	15	15	<b>HBLDS3SS</b>	
IP69k TYPE 4X Stainless Steel	3	3	1	7.5	15	15	<b>HBLDS3SSSAC</b>	
IP69k TYPE 4X Stainless Steel	3	3	1	7.5	15	15	<b>HBLDS3SSVFD</b>	
TYPE 4X Stainless Steel	3	3	2	7.5	15	15	<b>HBLDS3SSMQR</b>	
TYPE 4X Stainless Steel	3	3	1	7.5	15	15	<b>HBLDS3SSMQ5</b>	
TYPE 4X Non-Metallic Fused Disconnect	3	3	1	7.5	15	20	<b>FDS30</b>	
NEMA 4X Stainless Steel	3	3	3	7.5	15	20	<b>HBL13S33D</b>	
NEMA 4X Non-Metallic	3	3	3	7.5	15	20	<b>HBL13X33D</b>	
60	NEMA 3R Aluminum	1	2	—	10	15	20	<b>HBL16R92D</b>
	NEMA 3R Aluminum	3	3	—	10	25	30	<b>HBL16R93D</b>
	IP69k TYPE 4X Non-Metallic	3	3	7.5	30	50	50	<b>HBLDS6</b>
	IP69k TYPE 4X Non-Metallic	3	3	7.5	30	50	50	<b>HBLDS6AC</b>
	IP69k TYPE 4X Stainless Steel	3	3	7.5	30	50	50	<b>HBLDS6SS</b>
	IP69k TYPE 4X Stainless Steel	3	3	7.5	30	50	50	<b>HBLDS6SSAC</b>
	TYPE 4X Non-Metallic Fused Disconnect	3	3	3	15	30	40	<b>FDS60</b>
	NEMA 4X Stainless Steel	3	3	—	10	25	30	<b>HBL16S63D</b>
NEMA 4X Non-Metallic	3	3	—	10	25	30	<b>HBL16X63D</b>	
100	IP69k TYPE 4X Non-Metallic	3	3	7.5	30	50	50	<b>HBLDS10</b>
	IP69k TYPE 4X Non-Metallic	3	3	7.5	30	50	50	<b>HBLDS10AC</b>
	IP69k TYPE 4X Stainless Steel	3	3	7.5	30	50	50	<b>HBLDS10SS</b>
	IP69k TYPE 4X Stainless Steel	3	3	7.5	30	50	50	<b>HBLDS10SSAC</b>



HBL1379D



HBL1389D



HBLDS3



HBL16R93D



HBL13S33D



FDS30



HBLDS3SS



HBLDS3SSR



HBLDS3MQR



HBLDS3MQ5

### Circuit-Lock® Switches

Amp	Description	Phase	Poles	HP				Catalog Number
				120	240	480	600	
30	Toggle Switch	1	2	2	5	10	15	<b>HBL7832D</b>
	Short Toggle Switch	1	2	2	5	10	15	<b>HBL7832DS</b>
	Toggle Switch, Bulk Pack	1	2	2	5	10	15	<b>HBL7832DX</b>
	Toggle Switch	3	3	3	7.5	15	20	<b>HBL7810D</b>
	Short Toggle Switch	3	3	3	7.5	15	20	<b>HBL7810DS</b>
40	Toggle Switch	1	2	2	5	10	15	<b>HBL7842D</b>
	Toggle Switch	3	3	3	7.5	15	20	<b>HBL7843D</b>
50	Toggle Switch	1	2	2	5	10	15	<b>HBL7852D</b>
	Toggle Switch	3	3	3	7.5	15	25	<b>HBL7853D</b>
—	Finger guard (30–50A Switches)	—	—	—	—	—	—	<b>HBLFG30</b>
60	Toggle Switch	1	2	—	10	15	20	<b>HBL7862D</b>
	Toggle Switch	3	3	—	10	25	30	<b>HBL7863D</b>
	Toggle Switch – Front Wire	1	2	—	10	15	20	<b>HBL7862FWD</b>
	Toggle Switch – Front Wire	3	3	—	10	25	30	<b>HBL7863FWD</b>
85	Toggle Switch	1	2	—	10	15	20	<b>HBL7882D</b>
	Toggle Switch	3	3	—	10	25	40	<b>HBL7883D</b>



HBL7810D



HBL7853D



HBL7862D



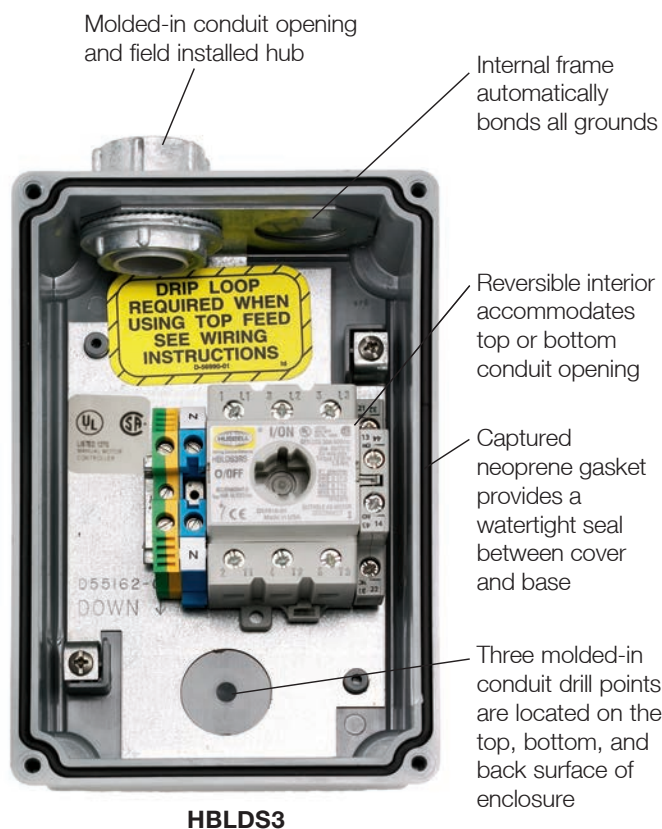
HBL7863D



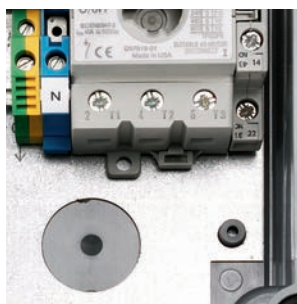


**Labelless Circuit-Lock® 30, 60, and 100 Ampere Unfused Disconnect Switches**

NEC section 430.102(B) requires each motor controller to have a disconnect within line of sight from the motor and driven equipment. NEC section 430.109(A)(6) recognizes that a manual motor controller and disconnect can be the same unit, provided it has been tested for this purpose. Hubbell's Circuit-Lock® Unfused Disconnect Switches are UL listed as a manual motor controller and also "suitable as a motor disconnect" and meet these code requirements. In addition, the enclosure offers the ability to lock directly wired motor loads in the OFF position to comply with OSHA Lockout/Tagout regulations. This safety enclosure is Type 4X (Wash down, Corrosion resistant) IP69k and is also suitable for use with metallic conduit. The switch is mounted on an internal frame that is integral with the enclosure and bonds all grounds, and it accepts auxiliary contacts that can be used to signal PLC controllers.



Labelless Circuit-Lock® Unfused Disconnect Switches are available in 30, 60 and 100 Amp, 600V AC ratings.



Auxiliary contacts are available for control circuit applications including the ON/OFF control of pilot lights or signal for programmable controllers.



Conduit hub and adjustable mounting feet are supplied for ease of installation.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Switched Disconnects and Enclosures

## Circuit-Lock® Unfused Disconnect Switches

"Suitable as Motor Disconnects"



UL Listed, CSA Certified  
TYPE 4, 4X and  
12 Enclosure Rating

### Labelless Circuit-Lock® Unfused Disconnect Switches in Non-Metallic Enclosures\*

Description	30 Amp	60 Amp	100 Amp
Labelless disconnect switch.	<b>HBLDS3</b>	<b>HBLDS6</b>	<b>HBLDS10</b>
Labelless disconnect switch for use with variable frequency drives.	<b>HBLDS3VFD</b>	<b>HBLDS6VFD</b>	<b>HBLDS10VFD</b>
Labelless disconnect switch with HBLAC1 auxiliary contact.	<b>HBLDS3AC</b>	<b>HBLDS6AC</b>	<b>HBLDS10AC</b>
Labelless disconnect switch with HBLAC2 auxiliary contact.	<b>HBLDS3AC2</b>	—	—
Labelless disconnect switch without conduit knockout or conduit fitting.	<b>HBLDS3NK</b>	—	—
Labelless disconnect switch with HBLAC1 auxiliary contact without conduit knockout or conduit fitting.	<b>HBLDS3ACNK</b>	—	—
Labelless disconnect switch with 3 auxiliary contacts, without conduit knockouts. Break before main break – 1 set "normally open", 1 set "normally closed". Break after main break – 2 sets "normally open", 1 set "normally closed".	<b>HBLDS33ACNK</b>	—	—



HBLDS3AC



HBLDS3SS



HBLDS3SSR

### Circuit-Lock® Unfused Disconnect Switches in Stainless Steel Enclosures\*

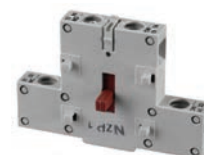
Description	30 Amp	60 Amp	100 Amp
Square Top disconnect switch.	<b>HBLDS3SS</b>	<b>HBLDS6SS</b>	<b>HBLDS10SS</b>
Square Top disconnect switch for use with variable frequency drives.	<b>HBLDS3SSVFD</b>	<b>HBLDS6SSVFD</b>	<b>HBLDS10SSVFD</b>
Square Top disconnect switch with HBLAC1 auxiliary contact.	<b>HBLDS3SSAC</b>	<b>HBLDS6SSAC</b>	<b>HBLDS10SSAC</b>
Sloped Top disconnect switch.	<b>HBLDS3SSR</b>	<b>HBLDS6SSR</b>	<b>HBLDS10SSR</b>
Sloped Top disconnect switch for use with variable frequency drives.	<b>HBLDS3SSRVFD</b>	<b>HBLDS6SSRVFD</b>	<b>HBLDS10SSRVFD</b>
Sloped Top disconnect switch with HBLAC1 auxiliary contact.	<b>HBLDS3SSRAC</b>	<b>HBLDS6SSRAC</b>	<b>HBLDS10SSRAC</b>

### Auxiliary Contacts for 30, 60 and 100 Amp Switch, NEMA A600 Pilot Duty

Description	Catalog Number
"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	<b>HBLAC1**</b>
"Break Before Main Break", 1 set of n/o contacts.	<b>HBLAC2**</b>

Note: \*Certified by NSF, International.

\*\*Up to two auxiliary contacts per enclosure. Not for use with HBLDS33ACNK.  
30A Units are supplied with one 3/4 in. NPT Raintight conduit fitting.  
60A and 100A Units are supplied with two 1 1/4 in. NPT Raintight conduit fittings.



HBLAC1



HBLAC2

### Variable Frequency Drive Diagram



# Switched Disconnects and Enclosures

## Circuit-Lock® Unfused Disconnect Switches

“Suitable as Motor Disconnects”

**IP66**  
SUITABILITY



HBLDS3RC



HBLDS3SSRC



HBLD3SSRRC



HBL30RGB



HBL30RNB



HBLDS3RS



HBLRFT1

### Labelless Replacement Covers

Description	30 Amp	60 Amp	100 Amp
For non-metallic switches.	<b>HBLDS3RC</b>	<b>HBLDS6RC</b>	<b>HBLDS10RC</b>
For square top stainless steel switches.	<b>HBLDS3SSRC</b>	<b>HBLDS6SSRC</b>	<b>HBLDS10SSRC</b>
For sloped top stainless steel switches.	<b>HBLD3SSRRC</b>	<b>HBLD60100SSRRC</b>	<b>HBLD60100SSRRC</b>

### Replacement Ground Block

Description	Catalog Number
For 30A switches.	<b>HBL30RGB</b>
For 60A and 100A switches.	<b>HBL60100RGB</b>

### Replacement Neutral Block

Description	Catalog Number
For 30A switches.	<b>HBL30RNB</b>
For 60A switches.	<b>HBL60RNB</b>
For 100A switches.	<b>HBL100RNB</b>

### Replacement Switches

Description	Catalog Number
For 30A switches.	<b>HBLDS3RS</b>
For 60A and 100A switches.	<b>HBLDS60100RS</b>
For HBLDS33ACNK.	<b>HBLDS33ACRS</b>

### Replacement Mounting Feet

Description	Catalog Number
For 30A non-metallic switches.	<b>HBLRFT1<sup>Δ</sup></b>
For 60A and 100A non-metallic switches.	<b>HBLRFT2<sup>Δ</sup></b>

Note: <sup>Δ</sup> Package of 10 feet and 10 screws.

# Switched Disconnects and Enclosures Circuit-Lock® Unfused Disconnect Switches

Dimensions and Specifications

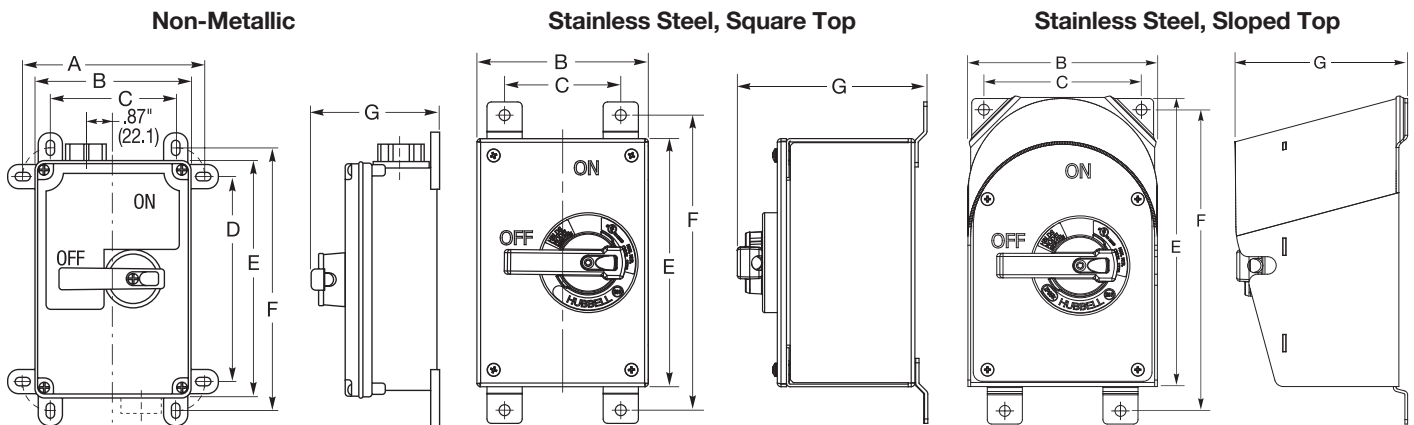
## Dimensions

Key	Labelless Non-Metallic		Stainless Steel, Square Top		Stainless Steel, Sloped Top	
	30A inch (mm)	60A/100A inch (mm)	30A inch (mm)	60A/100A inch (mm)	30A inch (mm)	60A/100A inch (mm)
<b>A</b>	6.00 (152)	7.75 (197)	—	—	—	—
<b>B</b>	5.12 (130)	6.87 (175)	4.87 (124)	7.30 (185)	5.41 (137)	7.66 (195)
<b>C</b>	4.12 (105)	4.75 (121)	3.30 (84)	5.50 (140)	4.50 (114)	6.45 (164)
<b>D</b>	6.62 (168)	8.00 (203)	—	—	—	—
<b>E</b>	7.62 (194)	9.95 (253)	7.05 (179)	10.30 (262)	8.60 (218)	11.41 (290)
<b>F</b>	8.50 (216)	11.00 (279)	8.38 (213)	11.63 (296)	8.22 (209)	11.17 (284)
<b>G</b>	4.12 (105)	5.94 (151)	5.39 (137)	5.93 (151)	4.92 (125)	6.10 (155)

## Horsepower Ratings

Voltage	30A	30A*	60A	100A
1Ø 120V AC	1	1	7.5	7.5
1Ø 200–240V AC	3	2.5	15	15
1Ø 480V AC	5	5	30	30
3Ø 200–240V AC	7.5	5	30	30
3Ø 480V AC	15	10	50	50
3Ø 600V AC	15	10	50	50

Note: \*HBLDS33ACNK.



## Circuit-Lock® Unfused Disconnect Switches

### Specifications

Moisture Resistance

Indoor and Outdoor – Type 4X (Wash down, Corrosion resistant);  
Indoor – 30, 60A and 100A Type 12 (Dust-tight, Falling Dirt, Noncorrosive Liquids).

Flammability

UL94-5VA and V0 Classification.

Operating Temperature

Maximum Continuous 75°C; Minimum Continuous -40°C without impact.

UV Resistance

All materials are UV stabilized.

Dielectric Voltage

Withstands 3000V AC minimum.

Max. Working Voltage

600V AC RMS.

Current Interrupting

Certified for current interrupting at full rated current and voltage.

Short Circuit Current Ratings (SCCR):  
(Motor Disconnect)

- 30/60/100A: Suitable for use on a circuit capable of delivering not more than 10kA RMS symmetrical, 600V AC max.
- 30A: Suitable for use on a circuit capable of delivering not more than 65kA RMS symmetrical, 600V AC max. when protected by Class J fuses rated 30A max.
- 60/100A: Suitable for use on a circuit capable of delivering not more than 65kA RMS symmetrical, 600V AC max. when protected by Class J fuses rated 100A max.

Terminal Identification

In accordance with UL, CSA and international conventions.

Product Identification

Identification and ratings are part of external label.

Mounting

Non-Metallic - External fully adjustable feet. Stainless Steel - Feet are fixed.

Impact Resistance

In accordance with UL 746C.

### Materials

Part	Non-Metallic	Stainless Steel
Base	Valox®	#14 Gauge Type 304 Stainless Steel
Top	Valox®	#14 Gauge Type 304 Stainless Steel
Handle	Valox®	Valox®
Conduit Hub	Zinc 30A Unfused - ¼ in. Zinc 60/100A Unfused - 1¼ in.	Zinc 30A - ¼ in. Zinc 60/100A - 1¼ in.
Enclosure Gasket	Neoprene	Neoprene
Shaft (Unfused)	Valox®	Valox®
Shaft Seal	Molded Neoprene	Molded Neoprene
Frame	Galvanized Steel	N/A
Enclosure Screws	Stainless Steel 300 Series	Stainless Steel

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)



MotorQuick® significantly reduces the time it takes to replace motors by combining the plug-and-play technology of the LINKOSITY® power system with the versatility of Circuit-Lock® motor disconnect switches. Quick disconnect terminations will reduce motor change-out time by approximately 65%. Keeping spare motors

already pre-wired with a LINKOSITY® inlet enables wiring to be done off-line when it is convenient, not critical. Motor rotation can be pre-checked in a maintenance shop to further speed the installation. The net result is that equipment is up and running in a fraction of the time, helping improve the bottom line.



## MotorQuick® Cost of Ownership Analysis

### Traditional Motor Changeout

Catalog Number	Total Material Cost	Labor Cost/ Hr	Downtime	Total Labor Cost	Downtime Cost/hr	Total Downtime Cost	Total Cost
<b>HBL1389D</b>	\$106.00	\$53.00	1 hour	\$53.00	\$750.00	\$750.00	\$909.00
<b>HBLDS3</b>	\$185.00	\$53.00	1 hour	\$53.00	\$750.00	\$750.00	\$988.00

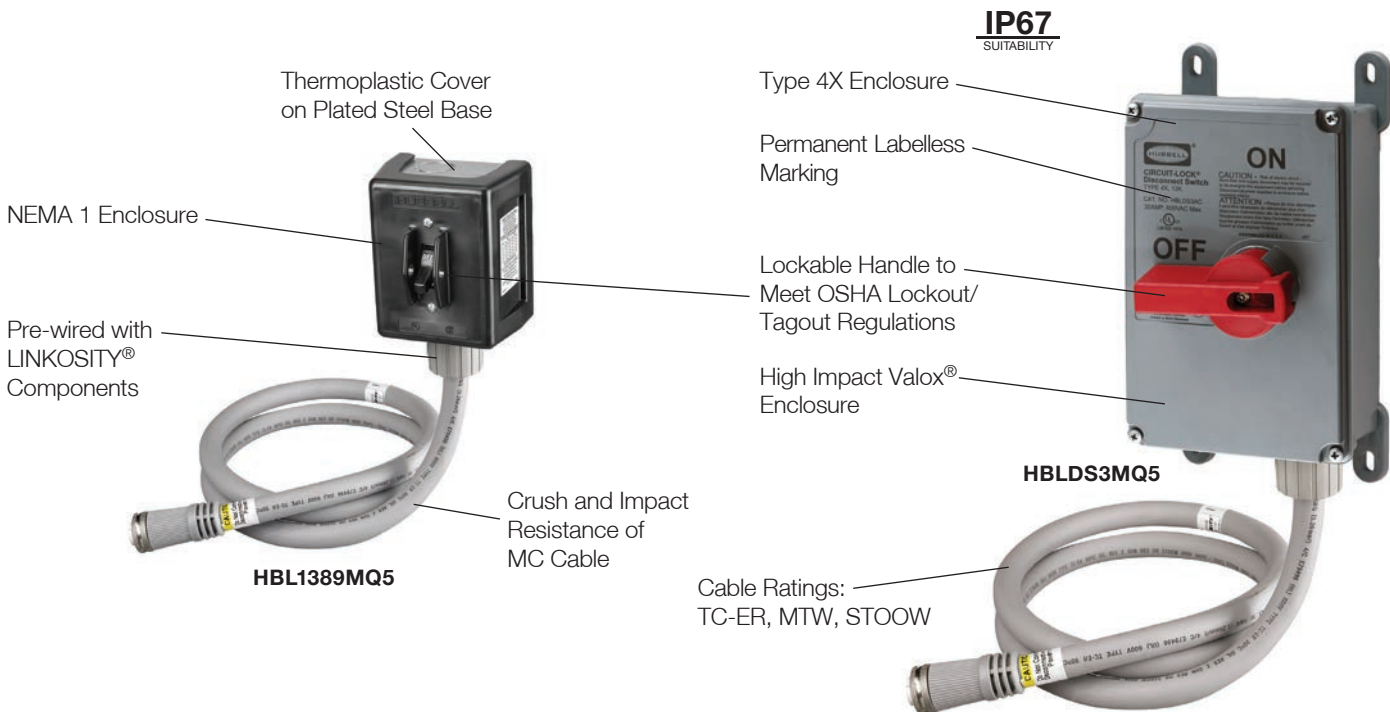
### MotorQuick® Motor Changeout

Catalog Number	Total Material Cost	Labor Cost/ Hr	Downtime	Total Labor Cost	Downtime Cost/hr	Total Downtime Cost	Total Cost	Total Savings
<b>HBL1389MQ*</b>	\$299.00	\$53.00	20 minutes	\$17.67	\$750.00	\$250.00	\$566.67	<b>\$342.33</b>
<b>HBLDS3MQ*</b>	\$411.00	\$53.00	20 minutes	\$17.67	\$750.00	\$250.00	\$678.67	<b>\$309.33</b>

Note: \*MotorQuick catalog numbers are based on the average cost of the various designs.



**30 Ampere, 600 Volts AC**



**MotorQuick® Disconnect Switches**

Type 1 Non-Metallic Enclosure 30A 3 Pole 600V AC	Catalog Number	
HBL1389D with one pre-wired LINKOSITY® female receptacle (load side).	<b>HBL1389MQR</b>	
HBL1389D with 5 foot pre-wired LINKOSITY® female cable (load side).	<b>HBL1389MQ5</b>	
HBL1389D with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	<b>HBL1389MQR2</b>	
Type 4X Non-Metallic Labelless Enclosure 30A 3 Pole 600V AC	Catalog Number	
HBLDS3 with one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3MQR</b>	
HBLDS3 with 5 foot pre-wired LINKOSITY® female cable (load side).	<b>HBLDS3MQ5</b>	
HBLDS3 with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3MQR2</b>	
Type 4X Stainless Steel Enclosure 30A 3 Pole 600V AC	Sloped Top	Square Top
HBLDS3SS with one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3SSRMQR</b>	<b>HBLDS3SSMQR</b>
HBLDS3SS with 5 foot pre-wired LINKOSITY® female cable (load side).	<b>HBLDS3SSRMQ5</b>	<b>HBLDS3SSMQ5</b>
HBLDS3SS with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3SSRMQR2</b>	<b>HBLDS3SSMQR2</b>



**Accessories**

Description	Catalog Number
3P 4W LINKOSITY® male receptacle for installation on motor.	<b>RM3004PA001</b>
3P 4W LINKOSITY® female receptacle for installation in switch.	<b>RF3004PA001</b>
3P 4W LINKOSITY® double ended (male/female) 5-50 foot cable.	<b>PH3004PAxxx*</b>
3P 4W LINKOSITY® single ended (female) 5-50 foot cable.	<b>PF3004PAxxx*</b>
Cord connector, ¼ in. NPT .63-.75 in. (16.0-19.1) diameter.	<b>SHC1037CR</b>
Lock-on cover for LINKOSITY® connections.	<b>PH2030C</b>

Note: \*Cables available from 5-50 feet in 5 foot increments. To purchase larger cable, replace the **xxx** with the required length in feet. (Examples: **PH3004PA005** = 5 foot cable, **PH3004PA050** = 50 foot cable.)

**Sample Set Up**

(1) **HBLDS3MQR** + (1) **PH3004PAxxx** + (1) **RM3004PA001** = **Total Set Up\*\***

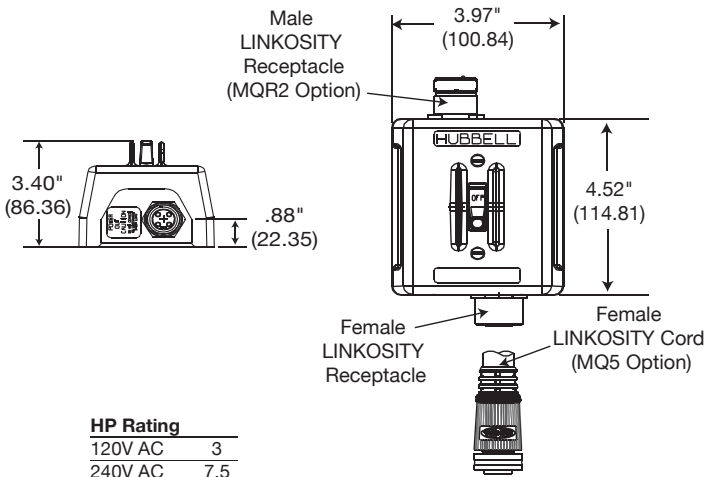


Note: \*\* Retrofit parts available for pre-existing disconnect switch installations. Please consult factory for availability.

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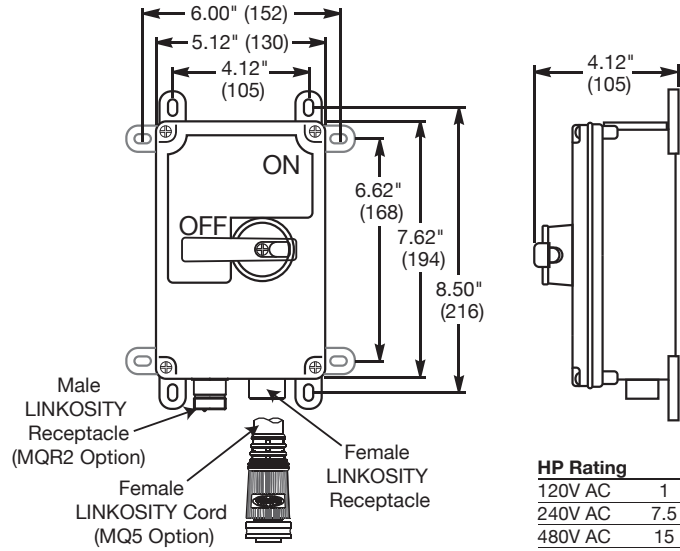
## Dimensions

### Type 1



HP Rating	
120V AC	3
240V AC	7.5
480V AC	15
600V AC	20

### Type 4X



HP Rating	
120V AC	1
240V AC	7.5
480V AC	15
600V AC	15

## Specifications

### Type 1

### Type 4X

#### Electrical Performance

Dielectric Voltage	2,200V AC minimum for 1 minute.	2,200V AC minimum for 1 minute.
Electrical Life	6,000 cycles with load.	6,000 cycles with load.
Max. Working Voltage	600V AC RMS.	600V AC RMS.
Short Circuit Current Ratings (SCCR): (Motor Disconnect)	10,000 RMS symmetrical amps when tested with 60A max J fuses.	<ul style="list-style-type: none"> <li>• 30: Suitable for use on a circuit capable of delivering not more than 10kA RMS symmetrical, 600V AC max.</li> </ul>
Short Circuit Current Ratings (SCCR): (Motor Controller)	10,000 RMS symmetrical amps when tested with 125A RK5 fuses.	<ul style="list-style-type: none"> <li>• 30A: Suitable for use on a circuit capable of delivering not more than 65kA RMS symmetrical, 600V AC max. when protected by Class J fuses rated 30A max.</li> </ul>

#### Mechanical

Mechanical Life	10,000 minimum cycles.	10,000 minimum cycles.
Terminal Accommodations	Amps AWG Min. AWG Max.	Amps AWG Min. AWG Max.
Terminal Torque	30 #14 #10	30 #14 #10
Impact Resistance	30 20 inch pounds	30 20 inch pounds
	— — —	UL746C

#### Environmental

Flammability	UL94HB/V-0.	UL94-5VA and V0 Classification.
Operating Temp.	Max. continuous 60°C	Max. continuous 75°C
	Min. continuous w/o impact -40°C	Min. continuous -40°C

#### Listings

UL 508	Industrial Control Equipment File #E36355	Industrial Control Equipment File #E36355
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## LINKOSITY® Connection

#### Certifications

Connecting Components	Listed to UL 2238 and UL 50E.
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#### Electrical Performance

Voltage	Up to 600V AC.
Amperage	Up to 30A.

#### Environmental

Connectivity System Components	
Moisture Resistance	UL Type 4, 4X, 12 and 13.
Ingress Protection	IP67 Suitability.
Flammability	UL94HB cables / UL94V-0 receptacles.

#### Materials

Connectivity System Components	
Contact Carrier	Nylon 6/6, white.
Contact Materials	Pins - brass.
	Sockets - leaded nickel copper w/ stainless steel sleeve.
Contact Plating	Hard gold over palladium/nickel.
Overmold Material	Glass filled polyurethane, gray.
Coupling Hardware	Nickel plated brass.
Cable (16 AWG and Up)	UL 600V Type TC-ER, MTW 90°C or STCOOW 600V 105°C.

Dimensions in Inches (mm)

**Circuit-Lock® 30 and 60 Ampere Fused Disconnect Switches**

The Circuit-Lock Fused Disconnect Switch provides fused switched control of a directly wired load. The switch cannot be turned ON unless the enclosure cover is closed. The fuses cannot be accessed until the switch is turned OFF. The fuse holder accepts Class "J" fuses. This enclosure is non-metallic and is listed for Outdoor/Indoor (Type 4X Wash down, Corrosion resistant). The handle can be locked in the OFF position to comply with OSHA Lockout/Tagout regulations.

Three molded-in conduit drill points are located on the top, bottom, and back surface of enclosure. Conduit hub provided: 30A 1 inch NPT, 60A 1 1/4 inch NPT

Adjustable mounting feet (4) can be mounted in any of three positions for ease of installation

Stainless steel hardware for corrosion resistance

Safety interlocked fuse access door

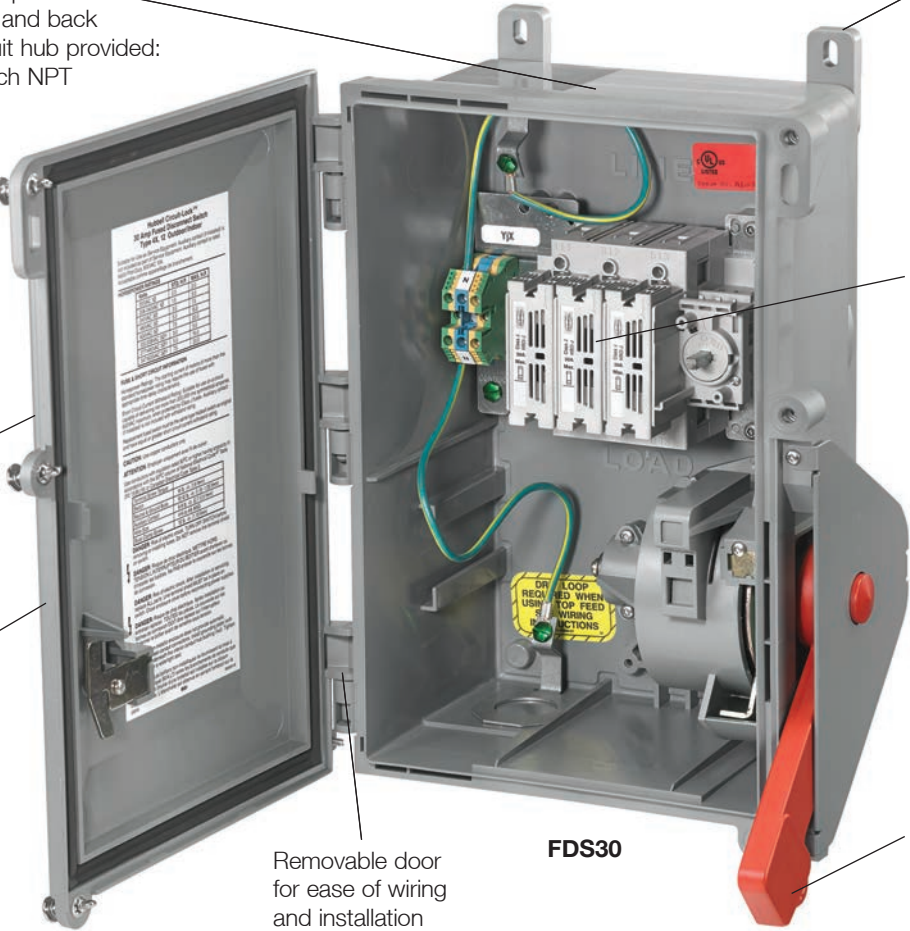
Non-metallic enclosure meets UL 50E Type 4X (watertight) 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged Valox® to resist abuse, corrosion and enhance safety. All external hardware is stainless steel

Removable door for ease of wiring and installation

**FDS30**

Fused disconnect switches accept Class "J" fuses

Lockable high visibility red handle to meet OSHA Lockout/Tagout



Conduit hub and adjustable mounting feet are supplied with each Circuit-Lock® Fused Disconnect Switch.



Stainless steel 1/4 inch turn door fasteners for quick, easy access to fuses.



Enclosure door can be locked to prevent unauthorized access. Additionally, if the switch is ON, the door cannot be opened.



Compact Fused Disconnect Switch accepts Class "J" fuses. Fuse holders are top mounted for easy access. The switch accepts auxiliary contacts for control circuit applications including the ON/OFF control of remote pilot lights or signal for programmable controllers.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

**IP66**  
SUITABILITY



FDS30

**30 and 60 Amp Fused Disconnect Switches**

Description	Catalog Number
30A Circuit-Lock fused disconnect switch.	<b>FDS30*</b>
60A Circuit-Lock fused disconnect switch.	<b>FDS60*</b>

Note: \*Class "J" fuses not included.

**Auxiliary Contacts**

Description	Black Style Switch Catalog Number	Gray Style Switch Catalog Number
Auxiliary contact, normally open, A600 pilot duty, break before break.	<b>ACFSNO</b>	<b>HBLACFSNO</b>
Auxiliary contact, normally closed, A600 pilot duty, break before break.	<b>ACFSNC</b>	<b>HBLACFSNC</b>

Note: Auxiliary contacts are specific to the style switch noted and are NOT interchangeable.

Gray Style Switch



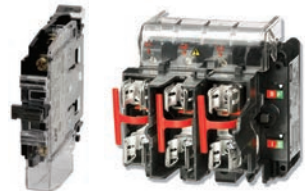
HBLACFSNO HBL30MIFRS

**Replacement Switches**

Description	Black Style Switch Catalog Number	Gray Style Switch Catalog Number
For 30A fused switches.	<b>30MIFRS</b>	<b>HBL30MIFRS</b>
For 60A fused switches. Gray Style switch will retro fit Black Style switch.	—	<b>HBL60MIFRS</b>

Note: If replacing a Black Style switch, you must use the 30MIFRS. All other applications can use the Gray Style switch.

Black Style Switch



ACFSNO 30MIFRS

**Watertight Closure Plug Kits**

Description	Catalog Number
For 30A Circuit-Lock® unfused and fused Pin and Sleeve mechanical interlocks.	<b>MICPK30</b>
For 60 and 100A Circuit-Lock® unfused and fused Pin and Sleeve mechanical interlocks.	<b>MICPK60</b>

**Replacement Mounting Feet**

Description	Catalog Number
Replacement mounting feet and screws for 30 and 60A fused mechanical interlocks.	<b>HBLRFT2<sup>A</sup></b>

Note: 30A Units supplied with two 1 in. NPT raintight conduit fittings.  
60A Units supplied with two 1¼ in. NPT raintight conduit fittings.  
<sup>A</sup> Package of 10 feet and 10 screws.

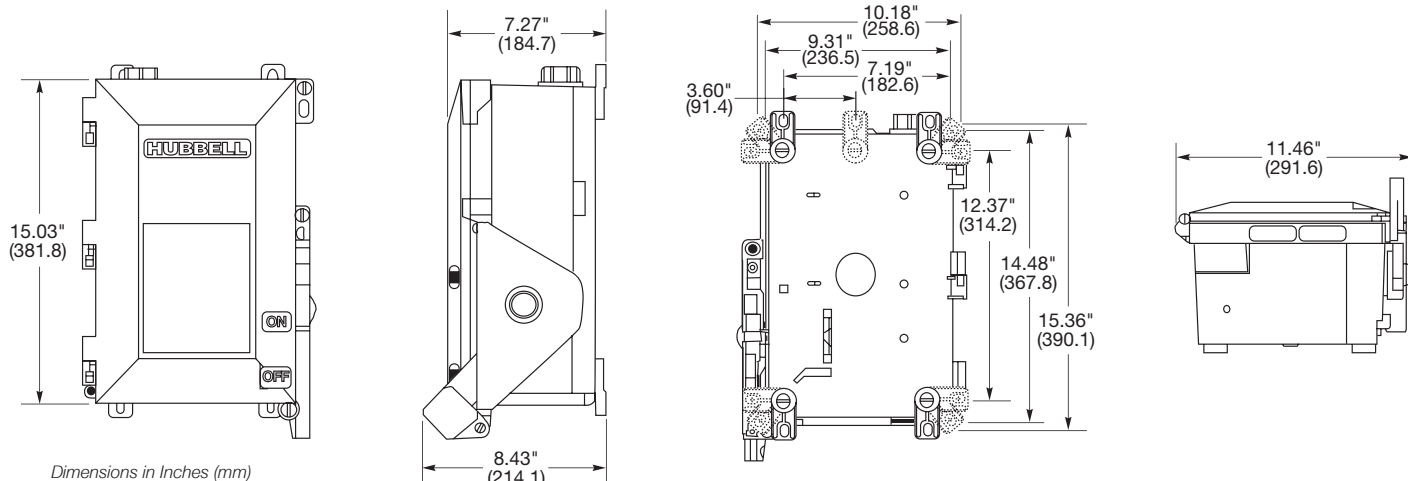


MICPK30



HBLRFT2

**Dimensions**





# Switched Disconnects and Enclosures Circuit-Lock® Fused Disconnect Switches

Horsepower Ratings and Specifications

## Horsepower Ratings

Ratings	Volts	Standard HP	Maximum HP*	Catalog Number
30A	120V AC	0.5	2	<b>FDS30</b>
600V AC	208-240V AC	1.5	3	
Max.	3Ø 240V AC	3	7.5	
	3Ø 480V AC	5	15	
	3Ø 600V AC	7.5	20	
	3Ø Y 120/208V AC	3	5	
	3Ø Y 277/480V AC	5	15	
	3Ø Y 347/600V AC	7.5	20	
60A	120V AC	1.5	3	<b>FDS60</b>
600V AC	208-240V AC	3	7.5	
Max.	3Ø 240V AC	7.5	15	
	3Ø 480V AC	15	30	
	3Ø 600V AC	15	50	
	3Ø Y 120/208V AC	7.5	15	
	3Ø Y 277/480V AC	15	30	
	3Ø Y 347/600V AC	15	40	

Note: \*Requires time delay fuses.

## Fuse and Short Circuit Information

Horsepower Ratings	The starting current of motors of more than the standard horsepower rating may require the use of fuses with appropriate time-delay characteristics.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 200,000 RMS symmetrical amperes at the voltage rating of receptacle when protected by Class "J" fuses.

Note: Replacement fused switch must be the same type Hubbell switch as original and have equal or greater short circuit current withstand rating.

## Circuit-Lock® Fused Disconnect Switch

### Specifications

Moisture Resistance	Indoor and Outdoor – Type 4X (Wash down, Corrosion resistant); Indoor – Type 12 (Dust-tight, Falling Dirt, Noncorrosive Liquids).
Flammability	UL94-5VA and V0 Classification.
Operating Temperature	Maximum Continuous 75°C; Minimum Continuous -40°C without impact.
UV Resistance	All materials are UV stabilized.
Dielectric Voltage	Withstands 3000V AC minimum.
Max. Working Voltage	600V AC RMS.
Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Identification	Identification and ratings are part of external label.
Mounting	External fully adjustable feet.
Fuse Types	UL Listed, Class "J"; CSA Certified, HRCI-J.

### Materials

Part	Material
Base	Valox®
Door	Valox®
Handle	Valox®
Conduit Hub	Zinc, 30A Fused – 1 in., 60A Fused – 1¼ in.
Enclosure Gasket	Neoprene
Shaft	Brass
Shaft Seal	Neoprene
Frame	Galvanized Steel
Ground Plate	Galvanized Steel
Enclosure Screws	Stainless Steel 300 Series

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



## Hazardous Location Non-Fused Disconnect Switches

Hubbell's hazardous location line of non-fused disconnect switches are typically used for applications with the presence of flammable gasses or vapors, ignitable dusts and fibers. They are also suitable for use in outdoor or indoor damp, wet and dirty locations or in areas where frequent wash downs, heavy rain, or water spray routinely occurs. These switches are compact in size to reduce cost and make it easier to position on the wall or piece of equipment. The enclosures are made of copper-free aluminum and have a polyester/epoxy finish to prevent corrosion. The high visibility handles can be locked out to comply with OSHA lock out/tag out regulations.



Class I, Div. 1 & 2, Groups B,C,D  
Class I, Zones 1 & 2, Groups IIB+ H2, IIA  
Class II, Div. 1 & 2, Groups E,F,G  
Class III, NEMA 3, 4, 4X, 7(B,C,D), 9(E,F,G)

Copper-free aluminum construction with electrostatically applied polyester/epoxy finish to prevent corrosion

Compact NEMA 4X enclosure and footprint allows easy installation in tight locations

- 316 Stainless steel bolts
- Top and bottom drilled and tapped conduit entrances
- For use as motor disconnects



HBLB7NFD13A



Lockable handle to meet OSHA Lockout/Tagout regulations

Large visible rotary handle with "On-Off" indicator allows a quick means of disconnecting power



HBLB7NFD26A

Lockable handle to meet OSHA Lockout/Tagout regulations



### Features

- Compact size enclosures provide application flexibility with cost savings over industry standard sizes.
- Fewer cover bolts reduces installation and maintenance time.
- Gasketed flange with O-ring located inside bolt circle to seal out moisture.
- Rotary handle style operating mechanism with lockout provision as standard.
- Removable ductile mounting lugs adjust to irregular mounting surfaces.
- Bodies have top and bottom drilled and tapped conduit entrances for power connection.
- UL98 certified switch.

### Applications

- Grain manufacturing and storage
- Industrial chemical and gas manufacturing
- Petroleum refining
- Fertilizer manufacturing
- Vehicle repair/paint shops
- Coal mining
- Cotton and fabric mills

### Standard Materials/Finish

- Enclosures: Copper-free aluminum (less than 4/10 of 1% copper content)
- Cover Bolts: 316 Stainless Steel
- O-Ring Gasket: Silicone
- Finish: Grey Powder Polyester painted exterior, electrostatically applied
- Ratings: 600V AC, 230V DC 30–100 Amp

### 30, 60 and 100 Amp Unfused Hazardous Location Disconnect Switches

Description	Catalog Number
30A 3 Pole disconnect switch.	<b>HBLB7NFD13A</b>
30A 3 Pole disconnect switch with auxiliary contact.	<b>HBLB7NFD13AA</b>
60A 3 Pole disconnect switch.	<b>HBLB7NFD26A</b>
60A 3 Pole disconnect switch with auxiliary contact.	<b>HBLB7NFD26AA</b>
100A 3 Pole disconnect switch.	<b>HBLB7NFD21A</b>
100A 3 Pole disconnect switch with auxiliary contact.	<b>HBLB7NFD21AA</b>



**HBLB7NFD13A**



**HBLB7NFD26A**



**HBLB7NFD21A**



**HBLVP3485**

### Unfused Mechanical Interlocks and Plugs

Amp	Poles/Wires	Voltage AC	Receptacle	Plug
30	3 Pole, 2 Wire	600V AC	<b>HBLVSQ3023</b>	<b>HBLVP3385</b>
	4 Pole, 3 Wire	600V AC	<b>HBLVSQ3034</b>	<b>HBLVP3485</b>
60	3 Pole, 2 Wire	600V AC	<b>HBLVSQ6023</b>	<b>HBLVP6385</b>
	4 Pole, 3 Wire	600V AC	<b>HBLVSQ6034</b>	<b>HBLVP6485</b>

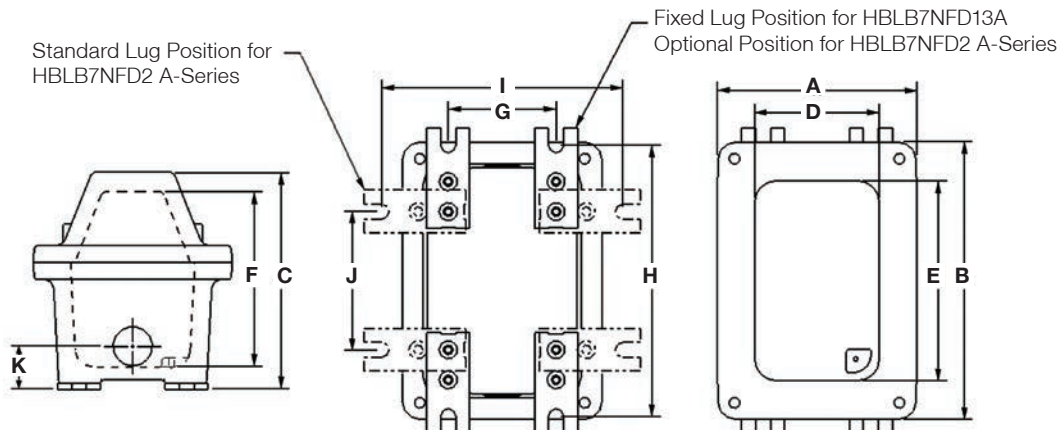
Note: HBLVSQ 30 amp models come standard with 1" drilled and tapped conduit openings top and bottom plus two 1" x 3/4" reducers and one 3/4" close-up plug for maximum flexibility. 60 amp models come with one 1 1/2" opening on top and bottom and one 1 1/2" close-up plug.

### Horsepower Ratings

Switch Amps/Phase	Single Phase HP			Three Phase HP			DC HP	Terminal Wire Size	Conduit Sizes	Catalog Number
	120V AC	230V AC	208V AC	230V AC	480V AC	600V AC	230V DC			
30A / 3P	2	5	10	10	20	30	1	#14-10	1 NPT	<b>HBLB7NFD13A</b>
60A / 3P	3	7.5	20	20	40	40	10	#14-4	1 1/2 NPT	<b>HBLB7NFD26A</b>
100A / 3P	5	15	25	30	50	50	20	#8-1	1 1/2 NPT	<b>HBLB7NFD21A</b>

### Dimensions

	Outside Box			Inside Box				Mounting Dimensions			
	A	B	C	D	E	F	G	H	I	J	K
30 Amp	5 3/4	8 1/16	6 5/16	3 5/8	5 19/16	5 1/16	3 1/8	8 1/8	–	–	1 1/4
60 & 100 Amp	8 1/8	13 1/16	7 13/16	4 1/4	9 9/16	6 5/16	2 1/2	11 3/8	6 3/8	7 1/2	1 13/16



Dimensions in Inches (mm)

# Switched Disconnects and Enclosures

## AC Manual Toggle Controllers/Disconnects

30, 40, 50, 60 and 85A 600V AC

### Circuit-Lock® controllers rated "Suitable as Motor Disconnect"

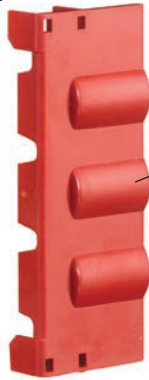
The most complete offering of controllers with top horsepower and high amperage ratings in such a compact device.



30A, 40A and 50A

#### #10 Brass Terminal Screw

Clamping plate for secure back or side wiring (30A only)



#### Optional Side Guard

For close wall applications and finger safe environments



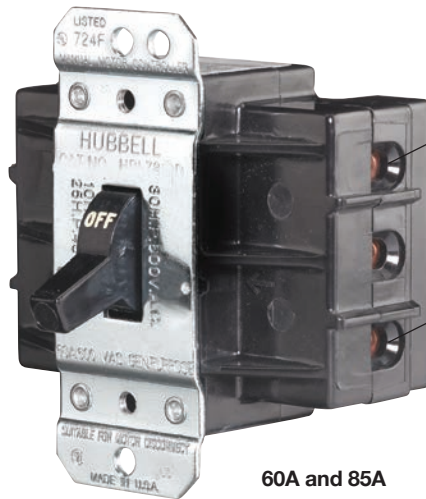
### Shared Features

Strong on/off action with quick-make, slow break operation

- Provides long-life reliability
- 10,000 Amp High Fault Short Circuit Withstand Rating

Thermoset Body

- Provides high resistance to electrical arc tracking
- Withstands high temperatures
- Excellent dimensional stability
- Superior dielectric strength



60A and 85A

#### Front and Back Wiring

Steel Screws and Copper Terminals

#### Recessed Wiring Wells

Finger safe environments



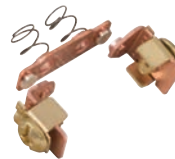
#### Optional Side Finger Guards

For close wall applications and finger safe environments. For 30A, 40A and 50A controllers.



#### Four Large Silver Alloy Contacts per Pole

- Excellent conductivity
- Maximum longevity



#### 100% Copper Contact Arm

- High heat management
- Reliability



#### Lubrication-Free Controller

- Continued on/off cycling even in harsh, dust and high heat environments

# Switched Disconnects and Enclosures

## AC Manual Toggle Controllers/Disconnects

30, 40, 50, 60 and 85A 600V AC

### 600V AC Manual Motor Controllers/Disconnects

For use in almost any industrial environment. Ideal component switch for motor control and as a disconnect. Toggle controllers can be built into equipment and enclosures for either box or panel-mount installation.

Amp	Poles	ToggleType	Wire	HP Rating				Catalog Number
				120V AC 1Ø	240V AC 3Ø	480V AC 3Ø	600V AC 3Ø	
30	2	Standard	Back/Side	2	5	10	15	<b>HBL7832D</b>
	2	Short	Back/Side	2	5	10	15	<b>HBL7832DS</b>
	2	Standard	Back/Side	2	5	10	15	<b>HBL7832DX</b>
	3	Standard	Back/Side	3	7.5	15	20	<b>HBL7810D</b>
	3	Short	Back/Side	3	7.5	15	20	<b>HBL7810DS</b>
40	2	Standard	Side	2	5	10	15	<b>HBL7842D</b>
	3	Standard	Side	3	7.5	15	20	<b>HBL7843D</b>
50	2	Standard	Side	2	5	10	15	<b>HBL7852D</b>
	3	Standard	Side	3	7.5	15	25	<b>HBL7853D</b>
60	2	Standard	Back	—	10	15	20	<b>HBL7862D</b>
	3	Standard	Back	—	10	25	30	<b>HBL7863D</b>
	2	Standard	Front	—	10	15	20	<b>HBL7862FWD</b>
	3	Standard	Front	—	10	25	30	<b>HBL7863FWD</b>
85	2	Standard	Back	—	10	15	20	<b>HBL7882D</b>
	3	Standard	Back	—	10	25	40	<b>HBL7883D</b>
Optional Side Guard, for close wall applications and finger safe environments.								<b>HBLFG30*</b>

Note: \*For 30A, 40A and 50A controllers.



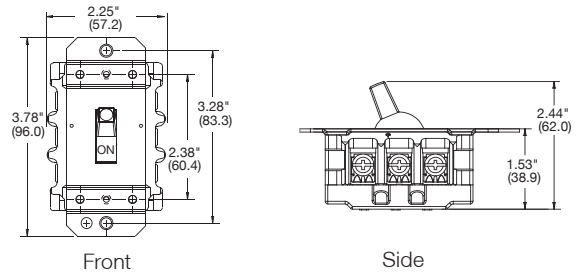
### Specifications

Electrical Performance		
Dielectric Voltage	Min. 2,200V AC minimum for 1 minute	
Electrical Life	Min. 6,000 Cycles at rated switch load	
Max. Working Voltage	600V AC RMS	
Short Circuit	Switches	10,000 RMS
Withstand Rating as Motor Disconnect	30A & 40A	60A max. when protected by J fuses
Short Circuit	50A	50A max. when protected by J fuses
Withstand Rating as Motor Controller	60A & 85A	80A max. when protected by J fuses
Short Circuit	All Switches	125A max. RK5 fuses
Mechanical		
Mechanical Life	Min. 10,000 minimum cycles	
Terminal Accommodations	Switch Rating	AWG Max.
	30A	#10
	40A & 50A	#8**
	60A & 85A	#4
Wire Type	Solid and stranded copper wire only.	
Terminal Torque	30A – 50A	20 inch pounds
Switch Rating	60A – 85A	25 inch pounds
Environmental		
Flammability	UL94HB/VO	
Operating Temp.	Max. 75°C	
	Min. -40°C continuous without impact	
Listings		
UL 508	Industrial Control File #E70402	
CSA-C22.2 No.14	LR-46186	

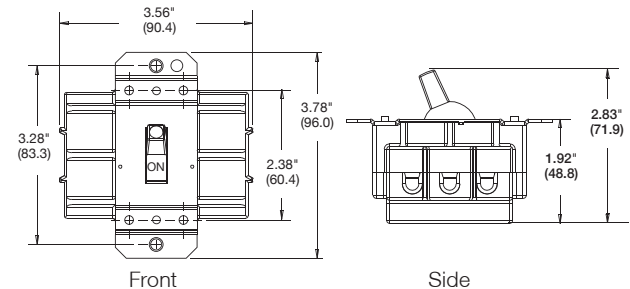
Note: \*\*Use listed certified ring terminal.

### Dimensions

#### 30, 40 and 50 Amp Standard Toggles



#### 60 and 85 Amp Standard Toggles



Dimensions in Inches (mm)



# NEMA 1 Disconnect Switches

“Suitable as Motor Disconnects”



HBL1389D

**Thermoplastic Cover on a Plated Steel Base**  
Durable, non-conductive cover



HBL1379D

**All Aluminum Cover and Base**  
Base is pre-drilled for rear surface mounting

## Shared Features

Wiring conduit knockouts

- 1/2" and 3/4" NPT
- Top, bottom or back wire entry points

Surface mount control

Switch can be locked in the off position as a method of compliance with OSHA lockout/tagout

## Circuit-Lock® NEMA 1 Enclosures with Switch

Ideal for use in industrial environments, i.e. conveyer systems, industrial fans, etc.

Amp	Poles	Enclosure Material	HP Rating				Catalog Number
			120V AC 1Ø	240V AC 3Ø	480V AC 3Ø	600V AC 3Ø	
30	2	Thermoplastic	2	5	10	15	HBL1392D
30	3	Thermoplastic	3	7.5	15	20	HBL1389D
30	2	Aluminum	2	5	10	15	HBL1372D
30	3	Aluminum	3	7.5	15	20	HBL1379D

Note: See page F-17 for technical information.

## Circuit-Lock® NEMA 1 Enclosures without Switch

For use with switches shown on page F-17.

Description	Cover Material	Base Material	No. Equipment Grounds	Catalog Number
For use with 30A switch.	Thermoplastic	Steel	1	HBL1390
For use with 30A switch.	Aluminum	Aluminum	2	HBL1370



HBL1389D



HBL1379D



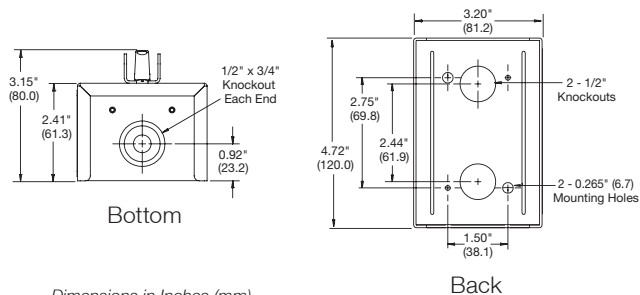
HBL1390



HBL1370

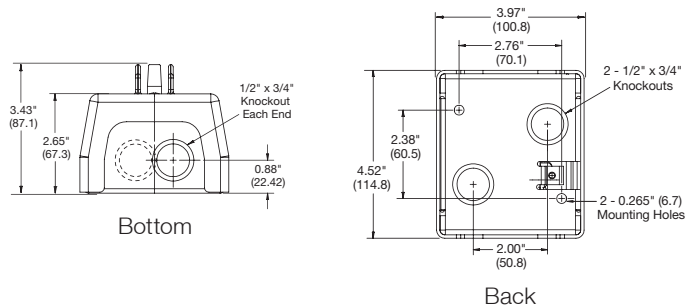
## Dimensions

HBL1370, HBL1372D and HBL1379D



Dimensions in Inches (mm)

HBL1390, HBL1389D and HBL1392D





# Switched Disconnects and Enclosures NEMA 3/3R and 3R Disconnect Switches

"Suitable as Motor Disconnects"

## Circuit-Lock® NEMA 3/3R Enclosures with Switch

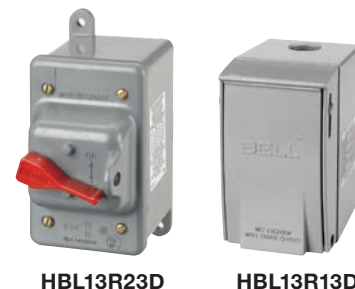
Ideal for use on outdoor equipment.

Amp	Poles	Enclosure Material	HP Rating				Catalog Number
			120V AC 1Ø	240V AC 3Ø	480V AC 3Ø	600V AC 3Ø	
30	2	Thermoplastic	2	5	10	15	<b>HBL13R22D</b>
30	3	Thermoplastic	3	7.5	15	20	<b>HBL13R23D</b>
30	2	Aluminum	2	5	10	15	<b>HBL13R12D†</b>
30	3	Aluminum	3	7.5	15	20	<b>HBL13R13D†</b>

Note: See page F-17 for technical information.

\*Drill weephole to alter from NEMA 3 to NEMA 3R.

†Equipped with HBLFG30 sidewall insulation barriers.

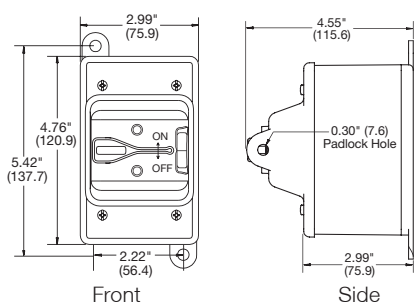


**HBL13R23D**

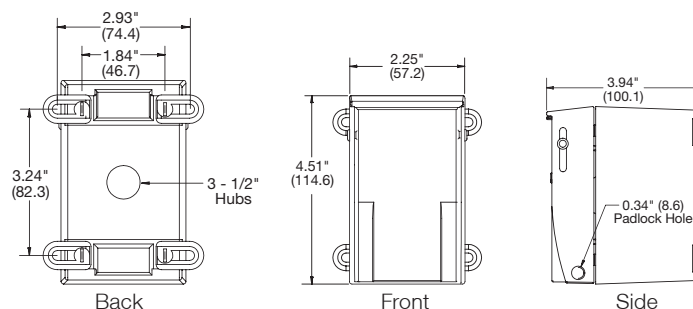
**HBL13R13D**

## Dimensions

### HBL13R22D and HBL13R23D



### HBL13R12D and HBL13R13D



## Circuit-Lock® NEMA 3R Enclosures with Switch

Ideal for use in outdoor environments.

Amp	Poles	Enclosure Material	HP Rating				Catalog Number
			120V AC 1Ø	240V AC 3Ø	480V AC 3Ø	600V AC 3Ø	
30	2	Aluminum	2	5	10	15	<b>HBL13R92D</b>
30	3	Aluminum	3	7.5	15	20	<b>HBL13R89D</b>
60	2	Aluminum	—	10	15	20	<b>HBL16R92D</b>
60	3	Aluminum	—	10	25	30	<b>HBL16R93D</b>

Note: For switch specifications refer to page F-17.



**HBL13R89D**

**HBL16R93D**

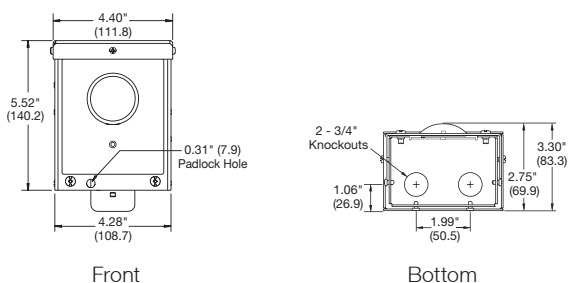
## Circuit-Lock® NEMA 3R Enclosures without Switch

For use with switches shown on page F-17.

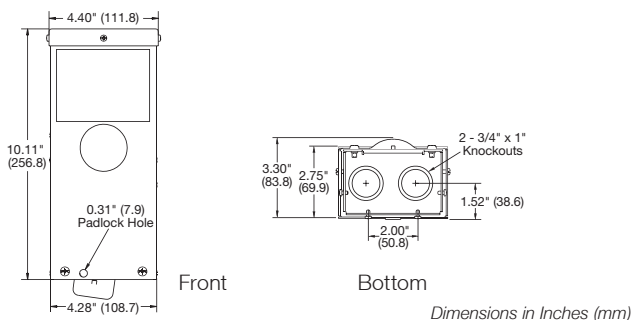
Description	Enclosure Material	Catalog Number
For use with 30A switch.	Aluminum	<b>HBL13R90</b>
For use with 60A switch.	Aluminum	<b>HBL16R90</b>

## Dimensions

### HBL13R90, HBL13R89D and HBL13R92D



### HBL16R90, HBL16R92D and HBL16R93D

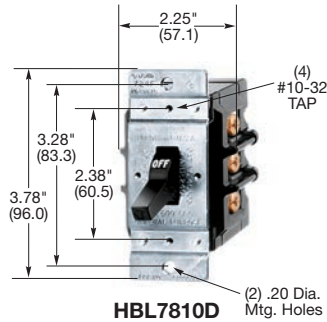


Dimensions in Inches (mm)

# 30 Ampere, 600 Volts AC Manual Motor Controllers

"Suitable as Motor Disconnect"

## 30A 600V AC Manual Motor Controllers, Double Pole



Description	Catalog Number
30A, double pole, single throw, AC manual motor controller, black nylon handle, side and back wired.	<b>HBL7832D</b>
30A, double pole, single throw, AC manual motor controller, black nylon handle, short toggle.	<b>HBL7832DS</b>
30A, double pole, single throw, AC manual motor controller. 50 piece bulk pack.	<b>HBL7832DX</b>
HBL7832D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	<b>HBL1392D</b>
HBL7832D in HBL1370 metal Type 1 enclosure.	<b>HBL1372D</b>
HBL7832D in NEMA 3R non-metallic enclosure.	<b>HBL13R22D</b>
HBL7832D in HBL13R90 metal Type 3R enclosure.	<b>HBL13R92D</b>
HBL7832D in NEMA 3R flip-lid enclosure.	<b>HBL13R12D</b>

Note: See page F-17 for technical information.

## 30A 600V AC Manual Motor Controllers, Three Pole

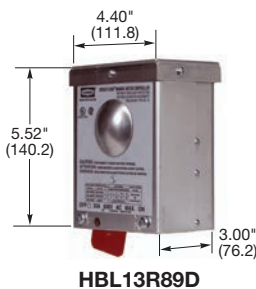
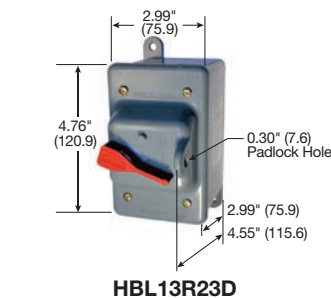
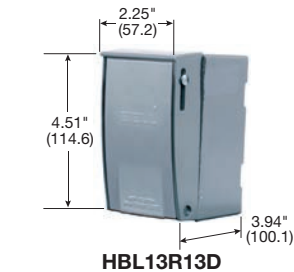


Description	Catalog Number
30A, three pole, single throw, AC manual motor controller, black nylon handle, side and back wired.	<b>HBL7810D</b>
30A, three pole, single throw, AC manual motor controller, black nylon handle, short toggle.	<b>HBL7810DS</b>
HBL7810D in HBL1390 Type 1 enclosure with non-metallic cover, ½ in. and ¾ in. knockouts on top, bottom and back of steel frame.	<b>HBL1389D</b>
HBL7810D in HBL1370 metal Type 1 enclosure.	<b>HBL1379D</b>
HBL7810D in NEMA 3R non-metallic enclosure.	<b>HBL13R23D</b>
HBL7810D in HBL13R90 metal Type 3R enclosure.	<b>HBL13R89D</b>
HBL7810D in NEMA 3R flip-lid enclosure.	<b>HBL13R13D</b>
30A, 600V, three pole, rotary controller in NEMA 4X stainless steel enclosure.	<b>HBL13S33D</b>
30A, 600V, three pole, rotary controller in NEMA 4X non-metallic enclosure.	<b>HBL13X33D</b>

Note: See page F-17 for technical information.

## Motor Rating

Product	120V AC	240V AC	480V AC	600V AC	Phase
30A Double Pole	2HP	5HP	10HP	15HP	1
30A Three Pole	3HP	7½HP	15HP	20HP	3
40A Double Pole	2HP	5HP	10HP	15HP	1
40A Three Pole	3HP	7½HP	15HP	20HP	3
50A Double Pole	2HP	5HP	10HP	15HP	1
50A Three Pole	3HP	7½HP	15HP	25HP	3
60A Double Pole	-	10HP	15HP	20HP	1
60A Three Pole	-	10HP	25HP	30HP	3
85A Double Pole	-	10HP	15HP	20HP	1
85A Three Pole	-	10HP	25HP	40HP	3



Dimensions in Inches (mm)

# AC Switches

## 40, 50, 60 and 85 Ampere, 600 Volts AC Manual Motor Controllers

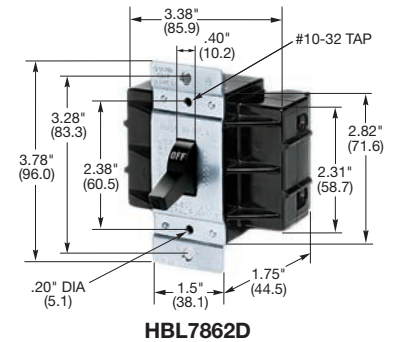
"Suitable as Motor Disconnect"

**IP44\***  
SUITABILITY

### 40A 600V AC Manual Motor Controllers

Description	Catalog Number
40A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	<b>HBL7842D</b>
40A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	<b>HBL7843D</b>

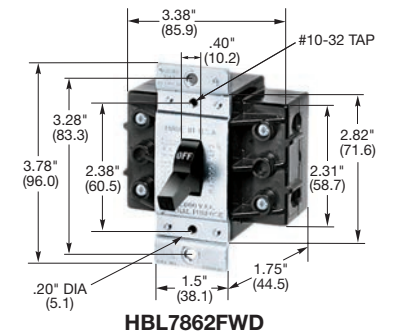
Note: See page F-17 for technical information.



### 50A 600V AC Manual Motor Controllers

Description	Catalog Number
50A, double pole, single throw, AC manual motor controller, black nylon handle, side wired.	<b>HBL7852D</b>
50A, three pole, single throw, AC manual motor controller, black nylon handle, side wired.	<b>HBL7853D</b>

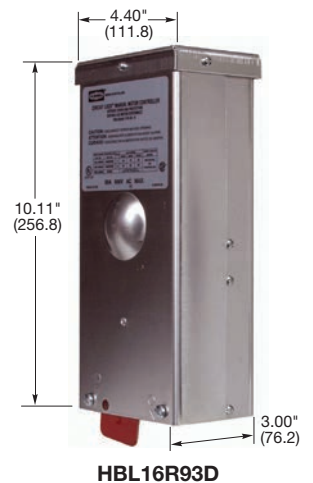
Note: See page F-17 for technical information.



### 60A 600V AC Manual Motor Controllers

Description	Catalog Number
60A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	<b>HBL7862D</b>
Same as HBL7862D except front wired.	<b>HBL7862FWD</b>
HBL7862FWD in Type 3R enclosure.	<b>HBL16R92D</b>
60A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	<b>HBL7863D</b>
Same as HBL7863D except front wired.	<b>HBL7863FWD</b>
HBL7863FWD in a Type 3R enclosure.	<b>HBL16R93D</b>
60A, 600V, three pole, rotary controller in NEMA 4X stainless steel enclosure.	<b>HBL16S63D</b>
60A, 600V, three pole, rotary controller in NEMA 4X non-metallic enclosure.	<b>HBL16X63D</b>

Note: See page F-17 for technical information.



### 85A 600V AC Manual Motor Controllers

Description	Catalog Number
85A, double pole, single throw, AC manual motor controller, black nylon handle, back wired.	<b>HBL7882D</b>
85A, three pole, single throw, AC manual motor controller, black nylon handle, back wired.	<b>HBL7883D</b>

Note: See page F-17 for technical information.

### Motor Controller Accessories

Description	Catalog Number
Finger Guards, fit 30A, 40A and 50A controllers.	<b>HBLFG30</b>
Auxiliary Contacts, NO/Common/NC, for use in rotary switches only.	<b>HBLAUX</b>



Dimensions in Inches (mm)

## Shared Features

Un-drilled case allows custom placement of wire entry

Switch can be locked in the off position as a method of compliance with OSHA lockout/tagout

**Hinged Cover with Removable Continuous Pin**

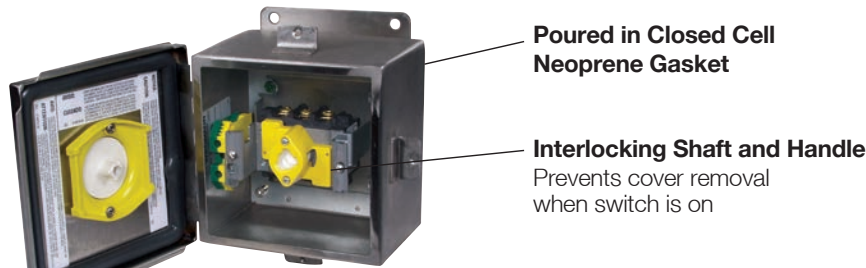
**304 Stainless Steel Enclosure**  
Chemical and corrosion resistant

**Valox® Handle and Collar**  
Chemical and impact resistant

**Thermoplastic 4X Non-Metallic Enclosures**



**HBL13S33D**



**Poured in Closed Cell Neoprene Gasket**

**Interlocking Shaft and Handle**  
Prevents cover removal when switch is on

**Up to 2 Optional Auxiliary Contacts**  
For PLCs and external indicators



**HBL13X33D**

## Circuit-Lock® NEMA 4X Enclosures with Switch and Accessories

Ideal for use in environments where wash-down is necessary, i.e. food processing, laboratories, etc.



**HBL16S63D**

**HBL13X33D**

Amp	Poles	Enclosure Material	HP Rating				Catalog Number
			120V AC 1Ø	240V AC 3Ø	480V AC 3Ø	600V AC 3Ø	
30	2	Stainless Steel	3	7.5	15	20	<b>HBL13S33D</b>
30	3	Valox	3	7.5	15	20	<b>HBL13X33D</b>
60	3	Stainless Steel	—	10	25	30	<b>HBL16S63D</b>
60	3	Valox	—	10	25	30	<b>HBL16X63D</b>

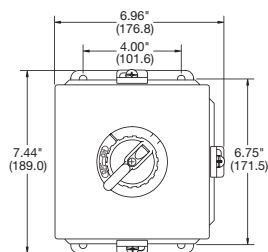
Finger Guard option for 30A switch. **HBLFG30**

NO/Common/NC auxiliary contact, 10A 120/250V AC for 30 and 60 Amp switches. **HBLAUX**

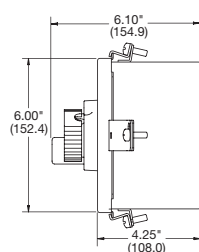
Note: See page F-17 for technical information.

## Dimensions

### HBL13S33D

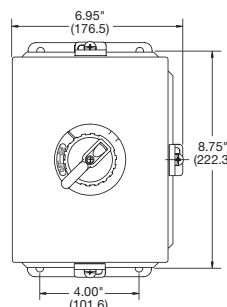


Front

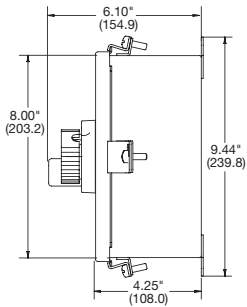


Side

### HBL16S63D



Front



Side

Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

**IP55**  
SUITABILITY

## CPB Series Compact Pendant Stations, Two Button, NEMA 4X

Description	Catalog Number
Single-speed normally open-normally closed without mechanical interlock.	<b>CPB20</b>
Single-speed with mechanical interlock between pushbuttons.	<b>CPB21</b>
Two-speed with mechanical interlock between pushbuttons.	<b>CPB22</b>

Note: Included with product: nylon cord grip and sealing washer (must be installed to achieve NEMA 4X rating).  
 Indication label pack. Cord dia. range .375-.625 in. (9.5-15.9)  
 Ambient temperatures: 25°F to 140°F (32°C to 60°C).  
 Typical applications: Package electric motor hoists. Remote control of machinery.

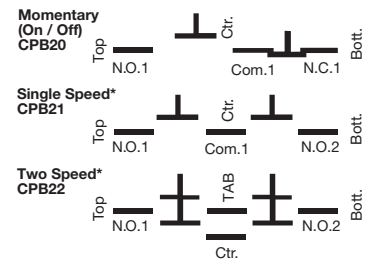
## Contact Ratings, CPB Series

Single-Speed	Voltage	Current
AC	120V	6A
35% PF	240V	3A
DC	125V	1.1A
IND	250V	.55A
Two-Speed	Voltage	Current
AC	120V	3A
35% PF	240V	1.5A



**CPB21**

## Wiring Diagram CPB2 Series



\*Mechanical "floating ball" interlock prevents activating both Pushbuttons simultaneously.

**IP44**  
SUITABILITY

## PBS Series Heavy Duty Pendant Pushbutton Stations, NEMA 3R

Description	Catalog Number
2 button, single speed.	<b>PBS2</b>
2 button, two speed.	<b>PBS22</b>
4 button, single speed.	<b>PBS4</b>
4 button, two speed.	<b>PBS42</b>
6 button, single speed.	<b>PBS6</b>
6 button, two speed.	<b>PBS62</b>
8 button, single speed.	<b>PBS8</b>
8 button, two speed.	<b>PBS82</b>

## Product Dimensions, PBS Series

Style	A	Approx. Wt. Assembled	Catalog Number
2 button	7.88" (200.0)	2.5 lbs	<b>PBS2</b>
4 button	13.69" (347.6)	4.5 lbs	<b>PBS4</b>
6 button	18.0" (457.2)	5.5 lbs	<b>PBS6</b>
8 button	22.31" (566.7)	7.5 lbs	<b>PBS8</b>

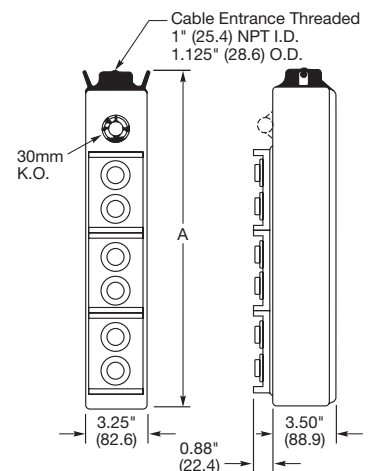
Note: Housing: Yellow vinyl rubber.

## Contact Interrupting Ratings, PBS Series

Two-Speed Single Break	Voltage	Current
AC	120V	6A
35% PF	240V	3A
DC	125V	.4A
IND	250V	.2A
Single-Speed Double Break	Voltage	Current
AC	120V	6A
35% PF	240V	3A
DC	125V	1.1A
IND	250V	.55A



**PBS6**



Dimensions in Inches (mm)





PG2



PG6



MS2



MS5



TB2



TB5



PBSLP



PBSBC



PBSPL1



07401023

## Replacement Inserts

When the insert switches are in need of replacement, simply unplug the old insert and plug in a new one.

Description	Catalog Number
Single speed insert momentary N.O. and N.C.	<b>PG2</b>
On-Off insert (no mechanical interlock). Momentary, start-stop, reset-stop.	<b>PG6</b>
2 or 3 speed insert, momentary. Used to a maximum of 3 speed points.	<b>MS2</b>
5 speed insert, momentary. Used to a maximum of 5 speed points. For five speed applications replace an existing terminal board with the TB5 terminal board and replace an existing insert with the five speed (MS5) insert.	<b>MS5</b>

## Conversion Inserts

In addition to single speed and two speed applications, pre-assembled units can be adapted to handle other applications.

Description	Catalog Number
Terminal board, required for each insert switch PG2, PG6 and MS2.	<b>TB2</b>
Terminal board, required for insert switch MS5.	<b>TB5</b>

## Accessories

Description	Catalog Number
Indicator labels for replacement package contains 1 each: hoist, trolley, bridge, forward-reverse, raise-lower, in-out, right left, east-west, north-south, reset-stop, start-stop, power, main hoist, auxiliary hoist, on-off, up-down.	<b>PBSLP</b>
Rubber button cover for replacement purposes.	<b>PBSBC</b>
120V red pilot light for 4, 6, and 8 button units only.	<b>PBSPL1*</b>

Note: \*Each pendant station can accommodate one of the pilot light in the 1.20 in. (30.6) diameter mounting hole.

## Kellems® Deluxe Aluminum Cord Fitting

Outdoor or indoors where subject to moisture, splash or submersion. Kellems grips provide strain relief for multi-conductor cable.

Description	Cord Range	Catalog Number
Kellems grip.	.750"-.875" (19-22.2)	<b>07401023</b>
Kellems grip.	.875"-1.00" (22.2-25.4)	<b>07401025</b>

# SECTION G

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**HBL® Watertight  
IEC Pin and Sleeve**



**Advantage™ Series  
Switch-Rated Devices**



**Circuit-Lock® Unfused and  
Fused Mechanical Interlocks**



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# Pin and Sleeve Devices/Mechanical Interlocks

## Products at a Glance



### IEC Watertight Devices

- Provide safe and dependable performance in the most demanding environments
- Heavy duty non-conductive nylon construction provides impact and corrosion protection
- Thermoset polyester contact carriers withstand high temperatures and provide resistance to electrical tracking



### Advantage™ Series Pin and Sleeve Switch-Rated Devices

- Device is similar in size to standard IEC 60309-2 devices. Receptacles mount to standard Hubbell IEC pin and sleeve back boxes
- Spring-loaded disconnect button oversized for easy actuation with gloved hands
- Ergonomic design Hubbell puts the Advantage™ into the palm of your hands with the easy-to-use leverage grip design from Hubbell



### Corrosion Resistant Devices

- This superior grade of IEC and Insulgrip devices are ideal for the most demanding environments
- Nickel-plated brass on the IEC and nickel-plated Tellurium copper on the Insulgrip contacts prevent corrosion and heat rise



### Back Boxes and Accessories

- A complete line of metallic and non-metallic back boxes, angle adapters, closure caps and liquidtight adapters are available
- These accessories help complement the line and aid in the installation of the product



### Insulgrip® NEMA 4X UL 1686 C1 Devices

- Metallic where you want it and non-metallic where you need it
- This tough product line is NEMA 4X rated for use in the harshest environments
- Devices are fully interchangeable with other manufacturers of UL1686 C1 devices



### Circuit-Lock® Mechanical Interlocks

- IEC pin and sleeve devices are color coded by voltage for easy identification
- Available in either fused or non-fused versions
- IEC reverse service units available for safely connecting generators
- Lockable handle to meet OSHA Lockout/Tagout regulations



### Low Profile Devices

- 90° Angled plugs and recessed receptacles allow for connections in tight spaces
- Cords can be controlled easily along the wall
- The integrated cord grips limit strain on terminals and prevent strain on plugs and cables exiting perpendicular from the wall



### Hazardous Location Devices

- Copper-free aluminum construction with electrostatically applied polyester/epoxy finish to prevent corrosion
- Large visible rotary handle with ON/OFF indicator allows a quick means of disconnecting power

# Pin and Sleeve Devices/Mechanical Interlocks

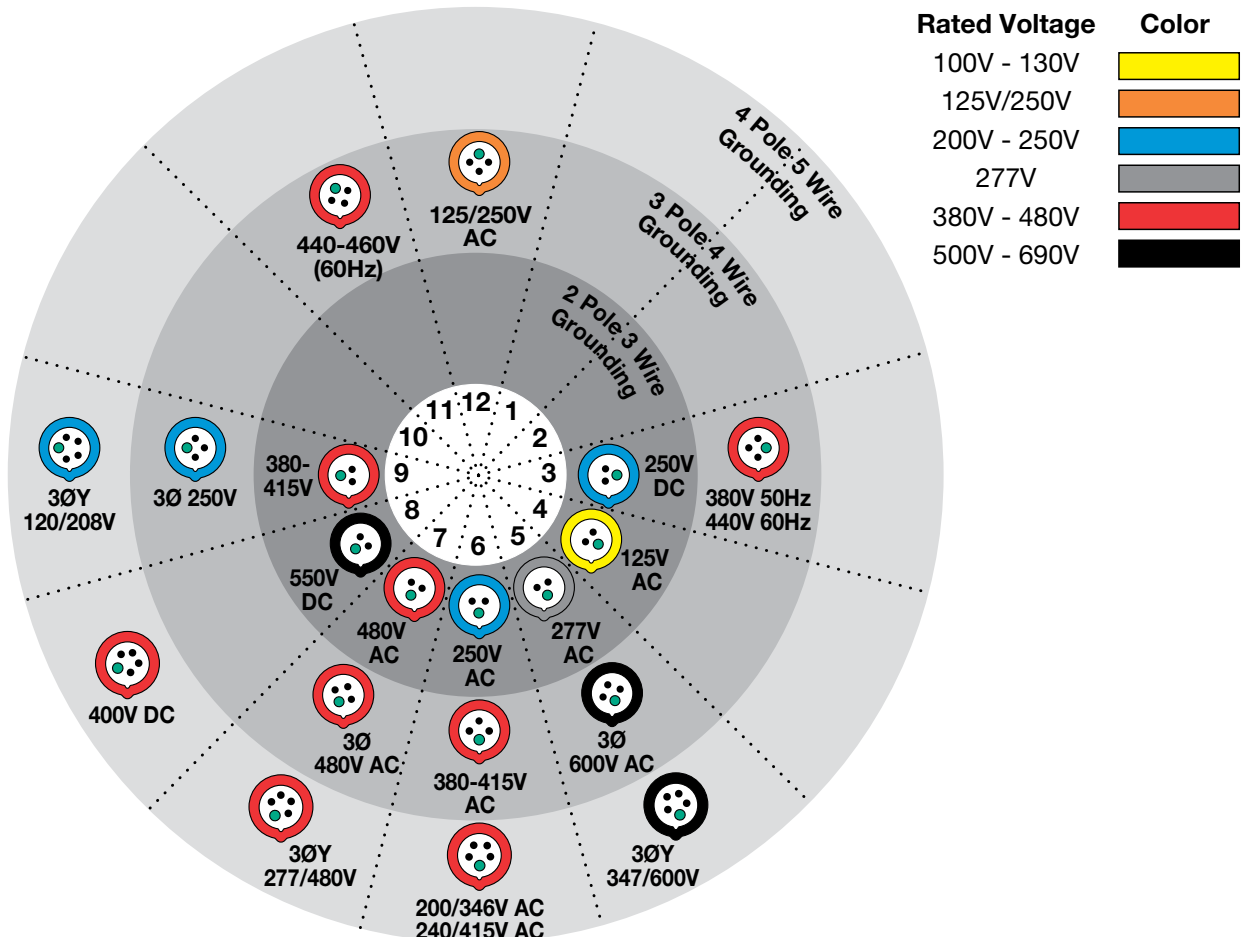
## IEC Configurations Chart

### Singly Rated Configurations

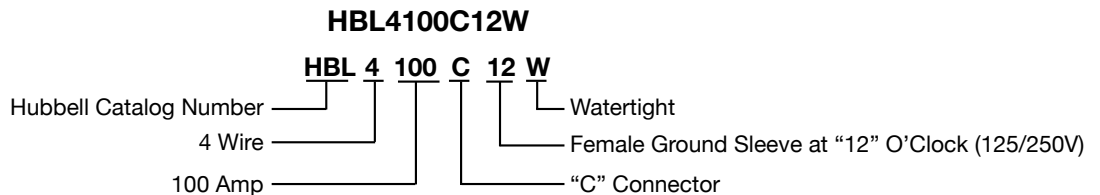
Hubbell Pin and Sleeve products are designed and manufactured to meet the International Standard IEC 60309-1 and IEC 60309-2. This device standard calls out a singly rated, non-interchangeable configuration for every voltage and type of service throughout the world. Pin and sleeve device housings are color coded by voltage rating.

### Voltage

The voltage is determined by the location of the female ground contact relative to the housing keyway. Simply by manufacturing the device with a ground contact in a certain "clock" position, the device will be rated for a particular voltage system. The diagram shows the keying position and the color coding that is associated with each voltage.



### Typical IEC Pin and Sleeve Catalog Number



#### Explanation

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| <p><b>1 (HBL) Designates Hubbell Catalog Number</b></p> | <p><b>2 First Digit</b><br/>                 3-3 wire<br/>                 4-4 wire<br/>                 5-5 wire</p> | <p><b>3 Next Series Of Digits</b><br/>                 Preceding a letter<br/>                 20-20 Amp<br/>                 30-30 Amp<br/>                 60-60 Amp<br/>                 100-100 Amp</p> | <p><b>4 Letter</b><br/>                 P-Plug<br/>                 R-Receptacle<br/>                 C-Connector<br/>                 B-Inlet<br/>                 MI-Mechanical Interlock<br/>                 MIF-Mechanical Interlock Fused</p> | <p><b>5 Last Digit(s)</b><br/>                 After the letter. This denotes the position of the ground sleeve and the assigned voltage in the receptacle as it relates to the hours of the clock. This is done to eliminate interchangeability between devices with different voltages.</p> | <p><b>6 Letter: W</b><br/>                 Watertight</p> |
|---|---|---|---|---|---|



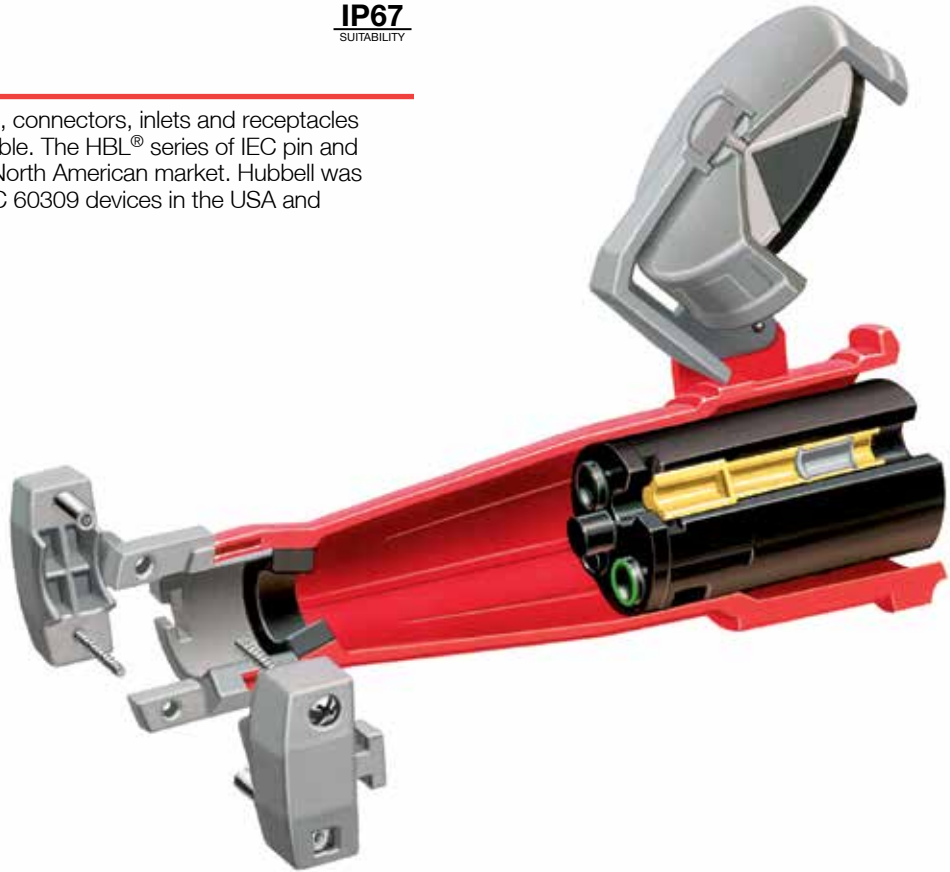


## Features and Benefits

**IP67**  
SUITABILITY

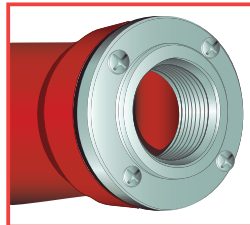
### Watertight Devices

Hubbell's IEC 60309 Pin and Sleeve plugs, connectors, inlets and receptacles are the highest performing products available. The HBL® series of IEC pin and sleeve were designed for the demanding North American market. Hubbell was the first and is still only manufacturer of IEC 60309 devices in the USA and have a full list of innovative features.



#### Housing Design

- Insulated non-metallic housing, super tough, non-conductive and chemical resistant for heavy duty industrial environments
- IEC pin and sleeve devices are color coded by voltage for easy identification
- Self-closing gasketed cover, detents into position to fully close automatically



#### Liquidtight Conduit Adapters

- Machined aluminum adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of Hubbell Pin and Sleeve plug or connector



#### Powerful Mechanical Cord Grip

- Hubbell's design incorporates two molded-in teeth to securely grip the outer cable jacket, and internal conductors to prevent slippage and strain on terminations
- Captive barrel nuts ease assembly and allow higher tightening torque for maximum cord retention



#### Sequential Contact Engagement

- Ground makes first and breaks last. Neutral makes second and breaks second (to prevent a momentary over-voltage on components connected phase to neutral)
- Phase contacts make last and break first



#### Watertight Cord Entrance

- The tapered bore entrance creates high compression forces on sealing gland, providing a watertight seal around cord
- Individual solid neoprene glands are supplied to match a full range of cord sizes and assure watertight performance



#### Multi-Contact Spring

- (60/63 and 100/125 Amp) Recessed within the female sleeve, provides and maintains high unit pressure on mating pins to minimize temperature rise
- Broaches oxide film to achieve low resistance contact for cooler operation

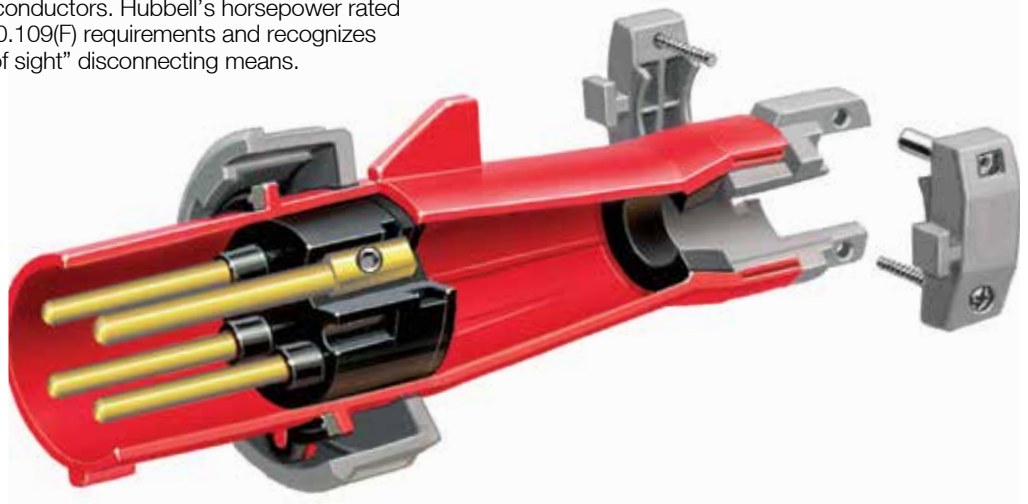


## Features and Benefits

**IP67**  
SUITABILITY

### Watertight Devices

The IEC line of plugs and connectors are made with a rugged super tough, one-piece housing. The thermoset polyester contact carrier provides a high resistance to electrical tracking. They withstand higher temperatures which may result from overload or arcing. The heavy-duty, external cord grip provides superior strain relief on the conductors. Hubbell's horsepower rated plugs and receptacles meet NEC 430.109(F) requirements and recognizes as an approved disconnecting/"line of sight" disconnecting means.



#### Housing Design

- Rugged one-piece housing, thick wall construction protects internal components, eliminates joints preventing infiltration of contaminants
- Amperage/voltage rating and catalog number molded in housing for easy identification



#### Shrouded Pins

- Super tough plug shroud protects pins from deforming from physical abuse
- Protects the user from the possibility of touching live contacts during insertion and withdrawal of mating parts
- Solid one-piece pins, machined from solid brass for longer life and reliable electrical contact



#### Safety

- Lockout/Tagout, tapered opening on plug shroud accommodates up to 3/8 inch (9.7mm) lock shackle diameter



#### Thermoset Polyester Contact Carrier

- Molded thermoset polyester provides high resistance to electrical tracking
- Withstands higher temperatures which may result from overload or arcing
- Thermoset properties provide dimensional stability for this critical assembly



#### Cord Grips

- Heavy duty external cord grips provide maximum cord retention to maintain secure terminations



#### Swivel Pressure Pads

- 16/20 and 30/32 Amp devices feature patented swiveling pressure pad terminal screws and prevent damage to conductor strands. 60/63 and 100/125 Amp devices feature large hex-head stainless steel screws which provide higher torque levels for secure terminations

Rating		Watertight Devices				Accessories			Replacement Interiors			
Amps	Poles and Wires	Configuration Recept./ Plug/ Inlet	AC Voltage	Receptacle	Plug	Connector	Inlet	Back Boxes		Closure Caps	Recept./ Conn.	Plug/ Inlet
								Non-Metallic	Metallic*			
16	2P 3W		100-130V	HBL316R4W	HBL316P4W	HBL316C4W	HBL316B4W†	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	2P 3W		220-240V	HBL316R6W	HBL316P6W	HBL316C6W	HBL316B6W	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	3P 4W		380-415V	HBL416R6W	HBL416P6W	HBL416C6W	HBL416B6W†	BB2030N	BB201W BB301W	PC420	IN420DF	IN420DM
	4P 5W		220/380V 240/415V	HBL516R6W	HBL516P6W	HBL516C6W	HBL516B6W	BB2030N	BB201W BB301W	PC520	IN520EF†	IN520EM
20	2P 3W		125V	HBL320R4W	HBL320P4W	HBL320C4W	HBL320B4W	BB2030N	BB201W BB301W	PC320	IN320AF	IN320AM
	2P 3W		250V	HBL320R6W	HBL320P6W	HBL320C6W	HBL320B6W	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	2P 3W		480V	HBL320R7W	HBL320P7W	HBL320C7W	HBL320B7W	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	3P 4W		125/250V	HBL420R12W	HBL420P12W	HBL420C12W	HBL420B12W	BB2030N	BB201W BB301W	PC420	IN420CF	IN420CM
	3P 4W		3Ø 250V	HBL420R9W	HBL420P9W	HBL420C9W	HBL420B9W	BB2030N	BB201W BB301W	PC420	IN420DF	IN420DM
	3P 4W		3Ø 480V	HBL420R7W	HBL420P7W	HBL420C7W	HBL420B7W	BB2030N	BB201W BB301W	PC420	IN420DF	IN420DM
	3P 4W		3Ø 600V	HBL420R5W	HBL420P5W	HBL420C5W	HBL420B5W	BB2030N	BB201W BB301W	PC420	IN420DF	IN420DM
	4P 5W		3ØY 120/208V	HBL520R9W	HBL520P9W	HBL520C9W	HBL520B9W	BB2030N	BB201W BB301W	PC520	IN520EF†	IN520EM
	4P 5W		3ØY 277/480V	HBL520R7W	HBL520P7W	HBL520C7W	HBL520B7W	BB2030N	BB201W BB301W	PC520	IN520EF†	IN520EM
	4P 5W		3ØY 347/600V	HBL520R5W	HBL520P5W	HBL520C5W	HBL520B5W	BB2030N	BB201W BB301W	PC520	IN520EF†	IN520EM
30	2P 3W		125V	HBL330R4W	HBL330P4W	HBL330C4W	HBL330B4W	BB2030N	BB201W BB301W	PC3430	IN330AF	IN330AM†
	2P 3W		250V	HBL330R6W	HBL330P6W	HBL330C6W	HBL330B6W	BB2030N	BB201W BB301W	PC3430	IN330BF	IN330BM
	2P 3W		480V	HBL330R7W	HBL330P7W	HBL330C7W	HBL330B7W	BB2030N	BB201W BB301W	PC3430	IN330BF	IN330BM
	3P 4W		125/250V	HBL430R12W	HBL430P12W	HBL430C12W	HBL430B12W	BB2030N	BB201W BB301W	PC3430	IN430CF	IN430CM
	3P 4W		3Ø 250V	HBL430R9W	HBL430P9W	HBL430C9W	HBL430B9W	BB2030N	BB201W BB301W	PC3430	IN430DF	IN430DM
	3P 4W		3Ø 480V	HBL430R7W	HBL430P7W	HBL430C7W	HBL430B7W	BB2030N	BB201W BB301W	PC3430	IN430DF	IN430DM
	3P 4W		3Ø 600V	HBL430R5W	HBL430P5W	HBL430C5W	HBL430B5W	BB2030N	BB201W BB301W	PC3430	IN430DF	IN430DM
	4P 5W		3ØY 120/208V	HBL530R9W	HBL530P9W	HBL530C9W	HBL530B9W	BB2030N	BB201W BB301W	PC530	IN530EF	IN530EM
	4P 5W		3ØY 277/480V	HBL530R7W	HBL530P7W	HBL530C7W	HBL530B7W	BB2030N	BB201W BB301W	PC530	IN530EF	IN530EM
	4P 5W		3ØY 347/600V	HBL530R5W	HBL530P5W	HBL530C5W	HBL530B5W	BB2030N	BB201W BB301W	PC530	IN530EF	IN530EM
32	2P 3W		100-130V	HBL332R4W†	HBL332P4W†	HBL332C4W†	HBL332B4W†	BB2030N	BB201W BB301W	PC3430	IN330BF	IN330BM
	2P 3W		220-240V	HBL332R6W	HBL332P6W	HBL332C6W	HBL332B6W	BB2030N	BB201W BB301W	PC3430	IN330BF	IN330BM
	3P 4W		380-415V	HBL432R6W	HBL432P6W	HBL432C6W	HBL432B6W	BB2030N	BB201W BB301W	PC3430	IN430DF	IN430DM
	3P 4W		380V 50Hz 440V 60Hz	HBL432R3W	HBL432P3W	HBL432C3W	HBL432B3W†	BB2030N	BB201W BB301W	PC3430	IN430DF	IN430DM
	4P 5W		220/380V 240/415V	HBL532R6W	HBL532P6W	HBL532C6W	HBL532B6W	BB2030N	BB201W BB301W	PC530	IN530EF	IN530EM

Note: See page G-14 and G-15 for back boxes and accessories, G-16 and G-17 for product dimensions, G-18 and G-19 for product specifications and HP ratings.

See page G-15 for closure caps, purchased separately. PC320, PC420, PC520, PC3430, PC530 are not UL or CSA.

\*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

†Consult factory.

Rating						Watertight Devices				Accessories			Replacement Interiors	
Amps	Poles and Wires	Configuration Recep./ Conn.	Plug/ Inlet	AC Voltage		Receptacle	Plug	Connector	Inlet	Back Boxes		Closure Caps	Recep./ Conn.	Plug/ Inlet
										Non-Metallic	Metallic*			
60	2P 3W			125V		HBL360R4W	HBL360P4W	HBL360C4W	HBL360B4W	BB60N	BB601W BB602W	PC60	IN360AF	IN360AM
	2P 3W			250V		HBL360R6W	HBL360P6W	HBL360C6W	HBL360B6W	BB60N	BB601W BB602W	PC60	IN360BF	IN360BM†
	2P 3W			480V		HBL360R7W	HBL360P7W	HBL360C7W	HBL360B7W	BB60N	BB601W BB602W	PC60	IN360BF	IN360BM†
	3P 4W			125/250V		HBL460R12W	HBL460P12W	HBL460C12W	HBL460B12W	BB60N	BB601W BB602W	PC60	IN460CF	IN460CM
	3P 4W			3Ø 250V		HBL460R9W	HBL460P9W	HBL460C9W	HBL460B9W	BB60N	BB601W BB602W	PC60	IN460DF	IN460DM
	3P 4W			3Ø 480V		HBL460R7W	HBL460P7W	HBL460C7W	HBL460B7W	BB60N	BB601W BB602W	PC60	IN460DF	IN460DM
	3P 4W			3Ø 600V		HBL460R5W	HBL460P5W	HBL460C5W	HBL460B5W	BB60N	BB601W BB602W	PC60	IN460DF	IN460DM
	4P 5W			3ØY 120/208V		HBL560R9W	HBL560P9W	HBL560C9W	HBL560B9W	BB60N	BB601W BB602W	PC60	IN560EF	IN560EM†
	4P 5W			3ØY 277/480V		HBL560R7W	HBL560P7W	HBL560C7W	HBL560B7W	BB60N	BB601W BB602W	PC60	IN560EF	IN560EM†
	4P 5W			3ØY 347/600V		HBL560R5W	HBL560P5W	HBL560C5W	HBL560B5W	BB60N	BB601W BB602W	PC60	IN560EF	IN560EM†
63	2P 3W			220-240V		HBL363R6W	HBL363P6W	HBL363C6W	HBL363B6W	BB60N	BB601W BB602W	PC60	IN360BFS	IN360BMS†
	3P 4W			380-415V		HBL463R6W	HBL463P6W	HBL463C6W	HBL463B6W	BB60N	BB601W BB602W	PC60	IN460DFS	IN460DMS
	4P 5W			220/380V 240/415V		HBL563R6W	HBL563P6W	HBL563C6W	HBL563B6W	BB60N	BB601W BB602W	PC60	IN560EFS†	IN560EMS
100	2P 3W			125V		HBL3100R4W	HBL3100P4W	HBL3100C4W	HBL3100B4W	BB100N	BB1001W BB1002W	PC100	IN3100AF	IN3100AM
	2P 3W			250V		HBL3100R6W	HBL3100P6W	HBL3100C6W	HBL3100B6W	BB100N	BB1001W BB1002W	PC100	IN3100BF	IN3100BM†
	2P 3W			480V		HBL3100R7W	HBL3100P7W	HBL3100C7W	HBL3100B7W	BB100N	BB1001W BB1002W	PC100	IN3100BF	IN3100BM†
	3P 4W			125/250V		HBL4100R12W	HBL4100P12W	HBL4100C12W	HBL4100B12W	BB100N	BB1001W BB1002W	PC100	IN4100CF†	IN4100CM
	3P 4W			3Ø 250V		HBL4100R9W	HBL4100P9W	HBL4100C9W	HBL4100B9W	BB100N	BB1001W BB1002W	PC100	IN4100DF	IN4100DM
	3P 4W			3Ø 480V		HBL4100R7W	HBL4100P7W	HBL4100C7W	HBL4100B7W	BB100N	BB1001W BB1002W	PC100	IN4100DF	IN4100DM
	3P 4W			3Ø 600V		HBL4100R5W	HBL4100P5W	HBL4100C5W	HBL4100B5W	BB100N	BB1001W BB1002W	PC100	IN4100DF	IN4100DM
	4P 5W			3ØY 120/208V		HBL5100R9W	HBL5100P9W**	HBL5100C9W	HBL5100B9W	BB100N	BB1001W BB1002W	PC100	IN5100EF	IN5100EM
	4P 5W			3ØY 277/480V		HBL5100R7W	HBL5100P7W	HBL5100C7W	HBL5100B7W	BB100N	BB1001W BB1002W	PC100	IN5100EF	IN5100EM
	4P 5W			3ØY 347/600V		HBL5100R5W	HBL5100P5W	HBL5100C5W	HBL5100B5W	BB100N	BB1001W BB1002W	PC100	IN5100EF	IN5100EM
125	2P 3W			220-240V		HBL3125R6W	HBL3125P6W	HBL3125C6W	HBL3125B6W	BB100N	BB1001W BB1002W	PC100	IN3100BFS†	IN3100BMS†
	3P 4W			380-415V		HBL4125R6W	HBL4125P6W	HBL4125C6W	HBL4125B6W	BB100N	BB1001W BB1002W	PC100	IN4100DFS	IN4100DMS
	4P 5W			220/380V 240/415V		HBL5125R6W	HBL5125P6W	HBL5125C6W	HBL5125B6W	BB100N	BB1001W BB1002W	PC100	IN5100EFS	IN5100EMS

Note: See page G-14 and G-15 for back boxes and accessories, G-16 and G-17 for product dimensions, G-18 and G-19 for product specifications and HP ratings.

All 63A and all 125A devices have pilot pins or contacts.

See page G-15 for closure caps, purchased separately. PC60 and PC100 are not UL or CSA.

\*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

\*\*Short housing plug HBL5100P9WSH. IP22 suitability.

†Consult factory.



# Pin and Sleeve Devices/Mechanical Interlocks

Hubbell's Pin and Sleeve connections have always been safe – that hasn't changed. The Advantage™ series simply has more... Advantages.

## IEC 60309 Singalarly Rated Device

Mates with existing installed base of IEC 60309-2 pin and sleeve devices. Color coded by voltage for easy identification of mating devices.

## Superior Water Ingress Protection

UL witnessed IP69k and UL Type 4X and 12. Device is built to withstand wet and harsh environments.

## Power Indicating LED Lights

Highly visible and long lasting green LED lights on both sides of the device provide visual verification of power when connected.

## Continuous Ground Engagement

Unswitched feed-through ground pin is first-to-make and last-to-break followed by switched neutral and phase contact(s).

## Permanent Labelless Markings

Product ratings are laser-marked into the device and will not wash off for easy permanent identification.

## Sleek and Modern Design

The ergonomic device is easy to keep clean making it ideal for hygienic food processing facilities.

The Advantage™ Series has a UL witnessed IP69k and 4X,12 environmental rating, two power-indicating LEDs, continuous ground engagement, labelless laser markings and a compact and ergonomic design.



## Features and Benefits

### Advantage™ Series Pin and Sleeve Switch-Rated

Hubbell Wiring Device-Kellems Advantage™ Series Pin and Sleeve Switch-Rated Devices are IEC 60309-2 compatible devices that are approved as a disconnecting means for motor and branch circuits. Compact design, this device is similar in size to standard IEC 60309-2 devices. Robust and durable housing, UV-stabilized, impact and corrosion-resistant PBT housing is designed to withstand harsh industrial environments. Stainless steel hardware provides superior corrosion resistance in wet and harsh environments. Receptacles mount to standard Hubbell IEC Pin and Sleeve back boxes.



#### Housing Design

- Rugged one-piece housing, thick wall construction protects internal components, eliminates joints preventing infiltration of contaminants
- IEC pin and sleeve devices are color coded by voltage for easy identification



#### Heavy Duty External Cord Grips

- Provides maximum cord retention to maintain unstressed terminations
- Pocketed recess for screws deters slippage of the screwdriver and are conveniently located on the same side for easy installation



#### Safety

- Ergonomic design puts the Advantage™ into the palm of your hands with the easy-to-use leverage grip design from Hubbell



#### Spring-Loaded Cover

- Spring-loaded to the open position, reminding users that the cover must be secured to ensure maximum ingress protection
- Impact resistant cover arm compact and durable internal swing arm is fully shrouded protecting it from damage



#### Spring-Loaded Disconnect Button

- Oversized for easy actuation with gloved hands



#### Power Indicating LED Lights

- Provides visual verification of power when connected



Rating				Pin and Sleeve Devices					Accessories		
Amps	Poles and Wires	Configuration Recept./ Conn.	Plug/ Inlet	AC Voltage	Connector	Receptacle	HP	Mating Plug**	IP67 Inlet	Back Boxes	Closure Caps
30	2P 3W			125V			2				
32	2P 3W			100–130V			2				
30	2P 3W			250V			5				
32	2P 3W			220–240V							
30	2P 3W			480V			10				
30	3P 4W			125/250V			2				
30/32	3P 4W			3Ø 250V			10				
30	3P 4W			3Ø 480V			20				
30	3P 4W			3Ø 600V			30				
30/32	3P 4W			380–415V			7.5				
32	3P 4W			380–440V			10				
30	4P 5W			3ØY 347/600V			30				
30	4P 5W			200/346–240/415V			7.5				
32	4P 5W			220/380V 240/415V							
30	4P 5W			3ØY 277/480V			20				
30/32	4P 5W			3ØY 120/208V			10				

Note: \*Certain IEC configurations allow for a single product to be certified as both a North American (Series 2) and International amperage (Series 1). These products are marked accordingly with both the UL Listing and UL Classified markings.

\*\*Mating plug required to maintain 4X/IP69k ratings when used with ADVANTAGE™ Series Connections.

ADVANTAGE™ Series Receptacles have the same mounting pattern as standard Hubbell IEC pin and sleeve.

## Materials

Part	Material	Connector	Receptacle	Plug/Inlet
Cover	Valox®	X	X	
Cover Gasket	Neporene	X	X	
Housing	Valox®	X	X	X
Gasket	Santoprene	X	X	X
Female Contact Carrier	Nylon	X	X	
Male Contact Carrier	Thermoset			X
Phase, Ground Sleeves	Brass	X	X	
Sleeve Springs	Beryllium Copper with Silver Plating	X	X	
Pins	Brass			X
Glands	Solid Neoprene	X		X
Cord Clamps	Valox®	X		X
Clamp Nut	Nickel-Plated Brass	X		X
Screws	Stainless Steel (300 Series)	X	X	X
Locking Ring	Valox®			X
Switch Contacts	Laminated Silver	X	X	

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## Specifications

Temperature Rise	< 30°C
Dielectric Voltage	Min 2,200V AC
Electrical Life	Min 6,000 Cycles at rated switch load (p.f.= .75-.80)
Max Working Voltage	600V AC
Current Interrupting	Certified for current interrupting at full rated current and voltage
Horsepower Locked Rotor Test	50 Operations at 600% of full load motor current (p.f.= .40-.50)
Short Circuit	100kA when protected by 100A Class J fuse or 125A RK1 fuse
Endurance	Min 10,000 mating cycles
Flammability	HB or Better per UL 94 or CSA C22.2 No. 0.17
Operating Temperature	Max Continuous +75°C; Min continuous -40°C
Environmental	Type 4X, 12 and IP69k
UV Resistance	All materials are UV stabilized

Rating		Pin and Sleeve Devices						Accessories			
Amps	Poles and Wires	Configuration Recep./ Conn.	Plug/ Inlet	AC Voltage	Connector	Receptacle	HP	Mating Plug**	Inlet**	Back Boxes	Closure Caps
60	2P 3W			125V			3				
60	2P 3W			250V							
63	2P 3W			220-240V							
60	2P 3W			480V							
60	3P 4W			125/250V							
60/63	3P 4W			3Ø 250V							
60	3P 4W			3Ø 480V							
60	3P 4W			3Ø 600V							
60/63	3P 4W			380-415V							
60	4P 5W			3ØY 347/600V							
60/63	4P 5W			200/346-240/415V							
60	4P 5W			3ØY 277/480V							
60/63	4P 5W			3ØY 120/208V							

Note: \*Certain IEC configurations allow for a single product to be certified as both a North American (Series 2) and International amperage (Series 1). These products are marked accordingly with both the UL Listing and UL Classified markings.

\*\*Mating plug or inlet required to maintain 4X/IP69k ratings when used with ADVANTAGE™ Series Connections. ADVANTAGE™ Series Receptacles have the same mounting pattern as standard Hubbell IEC pin and sleeve. Just add a "P" suffix for Pilot pin for 60 amp devices.

## Optional Pilot Pin Available on All 60A Devices

The Pilot Pin is smaller than the ground and phase pins and are designed to make after main and break before main breaks. This pin can be used to communicate with auxiliary devices within your facility. They are "Break before main break" and by design are the last contact in the sequence to make and first to break.

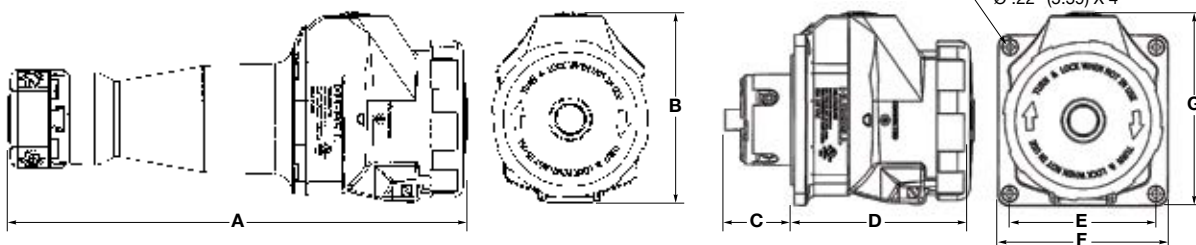


Rating			Pin and Sleeve Devices			
Amps	Poles/Wires	AC Voltage	Connector with Pilot Sleeve	Receptacle with Pilot Sleeve	Plug with Pilot Pin	Inlet with Pilot Pin
60/63	3P 4W	3Ø 250V	HBLS460C9WP*	HBLS460R9WP*	HBLS460P9WP*	HBLS460B9WP*

Note: \*Just add a "P" suffix for Pilot pin for 60 amp devices.

## Dimensions

Description	A		B		C		D		E		F		G	
	Connector		Receptacle		Receptacle		Receptacle		Receptacle		Receptacle		Receptacle	
30A	9.9"	(251.5)	4.5"	(114.3)	1.06"	(27.2)	3.83"	(97.3)	3.13"	(79.4)	3.75"	(95.2)	4.5"	(114.3)
60A	12.22"	(310.4)	5.17"	(131.3)	1.85"	(47.0)	4.77"	(121.2)	3.88"	(98.6)	4.52"	(114.8)	5.09"	(129.3)



Dimensions in Inches (mm)

# Pin and Sleeve Devices/Mechanical Interlocks

**IP67**  
SUITABILITY



## Corrosion Resistant Devices that Withstand the Most Abusive Environments

Hubbell offers a superior grade of 100A IEC Pin and Sleeve designed for use in the most demanding environments. These devices feature nickel plated solid brass pins for long life and reliable electrical contact in the most corrosive environments. They have a high visibility yellow supertough nylon housing. The heavy duty external cord clamps provide maximum cord retention to maintain secure terminations. The screws and fasteners are made from stainless steel.



- Food Processing
- Factory
- Water Treatment
- Washdown
- Temporary Power
- Meat Packing
- Construction
- Agriculture
- Outdoor Entertainment

## Standard Service

Rating						Watertight Devices			Accessories		
Amps	Poles And Wires	Configuration Recept./ Conn.	Plug	AC Voltage		Receptacle	Plug	Connector	Back Boxes Non-Metallic	Back Boxes Metallic*	Closure Caps
100	3P 4W			125/250V		M4100R12	M4100P12	M4100C12	BB100N	BB1001W BB1002W	PC100
	4P 5W			3ØY 120/208V		M5100R9	M5100P9	M5100C9	BB100N	BB1001W BB1002W	PC100
	4P 5W			3ØY 277/480V		M5100R7	M5100P7	M5100C7	BB100N	BB1001W BB1002W	PC100

## "Reverse Service"

Rating						Watertight Devices			Accessories		
Amps	Poles And Wires	Configuration Conn.	Inlet	AC Voltage		Inlet	Plug	Connector	Back Boxes Non-Metallic	Back Boxes Metallic*	Closure Caps
100	3P 4W			125/250V		M4100B12R	—	M4100C12R	BB100N	BB1001W BB1002W	PC100
	4P 5W			3ØY 120/208V		M5100B9R	—	M5100C9R	BB100N	BB1001W BB1002W	PC100
	4P 5W			3ØY 277/480V		M5100B7R	—	M5100C7R	BB100N	BB1001W BB1002W	PC100

Note: \*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint. See page Y-17 for corrosion resistant cord sets.

# Pin and Sleeve Devices/Mechanical Interlocks

## Data Center DC Rated Pin and Sleeve Devices

IP67  
SUITABILITY



In today's environmentally conscious world, energy savings is a pinnacle part of going green. DC (Direct Current) is being used to reduce power consumption and decrease the amount of infrastructure needed to energize specific types of data center equipment. Electrical devices provide a means of connecting DC power.

Hubbell is the first manufacturer to introduce a series of IEC Pin and Sleeve devices configured for the UL1686 eight o'clock ground position for DC voltage (Disconnecting use only). Hubbell's IEC DC rated pin and sleeve line has been qualified by UL to the requirements of DC voltage. The thermoset polyester contact carrier provide high resistance to electrical tracking, it withstands higher temperatures for this type of demanding application. The solid one-piece pins are machined from solid brass for longer life and reliable electrical contact. In addition, the heavy-duty external cord grips provide maximum cord retention to maintain secure terminations. Finally, the super tough, color coded, non-conductive V-0 rated Valox® housing is heavy duty for safety and protecting the internal components.



Rating					Watertight Devices		
Amps	Poles And Wires	Configuration Recept./ Conn.	Plug	DC Voltage	Receptacle	Plug	Connector
30	2P 3W			550V ■	HBL330R8WDC	HBL330P8V0DC	HBL330C8V0DC
60	2P 3W			550V ■	HBL360R8WDC*	HBL360P8V0DC	HBL360C8V0DC
100	2P 3W			550V ■	HBL3100R8WDC	HBL3100P8V0DC	HBL3100C8V0DC
	4P 5W			400V ■	HBL5100R8WDC	HBL5100P8V0DC	HBL5100C8V0DC

Note: \*Inlet available - HBL360B8WDC.

## Dual Certified Pin and Sleeve Devices

IP67  
SUITABILITY



Hubbell's dual certified pin and sleeve devices are ideal for the data center and high tech server industry. They are UL Listed to UL1682 for the North American market and are TUV Rheinland Certified for the European and International market. Customers can use the same plug and connector for multiple electrical configurations. They reduce the number of SKU's end users have to use if they sell to both domestic and overseas customers. These devices are IP67 rated, RoHs compliant and showcase all the inherent safety benefits of their V-0 rated Valox® housing and internal components.

Rating					Watertight Devices			
Amps	Poles And Wires	Configuration Recept./ Conn.	Plug	AC Voltage	Receptacle	Plug	Connector	Inlet
30/32	3P 4W			380-415V ■	HBL430R6V02	HBL430P6V02	HBL430C6V02	HBL430B6V02
	4P 5W			200/346V 240/415V ■	HBL530R6V02	HBL530P6V02	HBL530C6V02	HBL530B6V02
60/63	3P 4W			380-415V ■	HBL460R6V02	HBL460P6V02	HBL460C6V02	HBL460B6V02
	4P 5W			200/346V 240/415V ■	HBL560R6V02	HBL560P6V02	HBL560C6V02	HBL560B6V02

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.





**BB60N**



**BB601W**



**FW6010055**



**FT202W**



**FW60100**



**HBL2030AP**



**AA2030PS**

## Back Boxes

Hubbell manufactures an extensive line of back boxes for use with IEC Pin and Sleeve devices. Each back box is designed to give the user the maximum amount of wiring room while achieving grounding to metallic conduit. Hubbell back boxes are available in non-metallic and cast metal versions.

### Non-Metallic 15° Angle Back Box

Description	NPT Hub Size*	Catalog Number
Back box for 16, 20, 30 and 32A devices.	1"	<b>BB2030N</b>
Back box for 60 and 63A devices.	1¼"	<b>BB60N</b>
Back box for 100 and 125A devices.	1½"	<b>BB100N</b>

Note: \*Hub is not included; order one of the following Racor® part numbers: 1 in. = 1704, 1¼ in. = 1705, 1½ in. = 1706. These boxes meet IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.

### Metallic 15° Angle Back Box and Adapter\*\*

Description	NPT Hub Size	Catalog Number
Back box for 16, 20, 30 and 32A devices.	¾"	<b>BB201W</b>
	1"	<b>BB301W</b>
Back box for 60 and 63A devices.	1¼"	<b>BB601W</b>
	1½"	<b>BB602W</b>
Back box for 100 and 125A devices.	1½"	<b>BB1001W</b>
	2"	<b>BB1002W</b>
Angle adapter only for 60, 63, 100 and 125A devices.	–	<b>AA6010015</b>

Note: \*\*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

### Metallic 55° Angle Back Box and Adapter\*\*

Description	NPT Hub Size	Catalog Number
Feed-thru box back box and adapter for 16, 20, 30 and 32A devices.	1"	<b>AB203055</b>
Angle adapter only.	–	<b>AA203055</b>
Back box and adapter for 60, 63, 100 and 125A devices.	1½"	<b>FW6010055</b>
Angle adapter only.	–	<b>AA6010055</b>

Note: \*\*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

### Metallic Feed-Thru Back Box\*\*

Description	NPT Hub Size	Catalog Number
Feed-thru box for 16, 20, 30 and 32A devices.	¾"	<b>FT202W</b>
	1"	<b>FT302W</b>

Note: \*\*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

### Metallic Four-Way 15° Angle Back Box\*\*

Description	NPT Hub Size	Catalog Number
Four-way box for 60, 63, 100 and 125A devices.	1½"	<b>FW60100</b>

Note: \*\*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

### Straight Wall Box Adapter

Description	Catalog Number
Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to 2-gang, device boxes and FD boxes.	<b>HBL2030AP</b>

### Angle Wall Box Adapter

Description	Catalog Number
Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to standard wall boxes.	<b>AA2030PS</b>

Note: Adapts 20 and 30A Watertight Pin and Sleeve receptacle to single, 2-gang standard wall box and 4 or 4¼ inch square for non-watertight applications.



# Pin and Sleeve Devices/Mechanical Interlocks

## Accessories

### Closure Caps

Cap assemblies provide watertight sealing to a disconnected male IEC Pin and Sleeve plug or inlet. Manufactured of the same tough non-metallic material as the watertight IEC Pin and Sleeve devices for corrosion and abuse resistance.

Description	Catalog Number
Fits all 16 and 20A, 3 wire plugs and inlets.	<b>PC320</b>
Fits all 16 and 20A, 4 wire plugs and inlets.	<b>PC420</b>
Fits all 16 and 20A, 5 wire plugs and inlets.	<b>PC520</b>
Fits all 30 and 32A, 3 and 4 wire plugs and inlets.	<b>PC3430</b>
Fits all 30 and 32A, 5 wire plugs and inlets.	<b>PC530</b>
Fits all 60 and 63A plugs and inlets.	<b>PC60</b>
Fits all 100 and 125A plugs and inlets.	<b>PC100</b>



PC3430

### Cover Assemblies

Replacement cover assemblies for use with watertight connector bodies and receptacles. Kit contains cover, arm assembly and installation tool.

Description	Catalog Number
Fits all 16 and 20A, 3 wire watertight female devices.	<b>CA320</b>
Fits all 16 and 20A, 4 wire watertight female devices.	<b>CA420</b>
Fits all 16 and 20A, 5 wire watertight female devices.	<b>CA520</b>
Fits all 30 and 32A, 3 and 4 wire watertight female devices.	<b>CA3430</b>
Fits all 30 and 32A, 5 wire watertight female devices.	<b>CA530</b>
Fits all 60 and 63A watertight female devices.	<b>CA60</b>
Fits all 100 and 125A watertight female devices.	<b>CA100</b>



CA3430

### Cord Clamp and Locking Ring

Replacement cord clamp and locking ring for use with IEC plugs, connectors and inlets.

Description	Cord Clamp and Locking Ring	Locking Ring Only
Fits all 16 and 20A, 3 wire plugs, connectors and inlets.	<b>CC320</b>	<b>LR320*</b>
Fits all 16 and 20A, 4 wire plugs, connectors and inlets.	<b>CC420</b>	<b>LR420*</b>
Fits all 16 and 20A, 5 wire plugs, connectors and inlets.	<b>CC520†</b>	<b>LR520*</b>
Fits all 30 and 32A, 3 and 4 wire plugs, connectors and inlets.	<b>CC3430</b>	<b>LR3430*</b>
Fits all 30 and 32A, 5 wire plugs, connectors and inlets.	<b>CC530†</b>	<b>LR530*</b>
Fits all 60 and 63A plugs, connectors and inlets.	<b>CC60</b>	<b>LR60*</b>
Fits all 100 and 125A plugs, connectors and inlets.	<b>CC100</b>	<b>LR100*</b>

Note: \*Locking Ring only for plugs and inlets.

†Consult factory.



CC3430

LR3430

### Liquidtight Adapters

Machined aluminum adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of a Hubbell Pin and Sleeve plug or connector. To install, remove cord grip and two gland cap screws. Use screws to attach adapter. Kellems® liquidtight conduit connectors are available to control arc of bend and to prevent conduit pull-out where vibration, motion or strain is present. These grips interface directly with Hubbell's liquidtight adapters and are available in a wide variety of NPT sizes and configurations. Consult your local code grounding requirements before using liquidtight adapters.

Rating of Hubbell Pin and Sleeve Device	Liquidtight Conduit Size	Hubbell Liquidtight Adapter	Optional Kellems Liquidtight Conduit Grip
16 and 20 Amp 3 and 4 Wire	1/2" NPT	<b>SAA12</b>	<b>074093402</b>
	3/4" NPT	<b>SAA34</b>	<b>074093403</b>
16 and 20 Amp 5 wire and 30 and 32 Amp 3 and 4 wire	1/2" NPT	<b>SAB12</b>	<b>074093402</b>
	3/4" NPT	<b>SAB34</b>	<b>074093403</b>
	1" NPT	<b>SAB100</b>	<b>074093404</b>
30 and 32 Amp 5 wire and 60 and 63 Amp (all)	1/2" NPT	<b>SAC12</b>	<b>074093402</b>
	3/4" NPT	<b>SAC34</b>	<b>074093403</b>
	1" NPT	<b>SAC100</b>	<b>074093404</b>
	1 1/4" NPT	<b>SAC125</b>	<b>074093405</b>
100 and 125 Amp (all)	1 1/4" NPT	<b>SAD125</b>	<b>074093405</b>
	1 1/2" NPT	<b>SAD150</b>	<b>074093406</b>

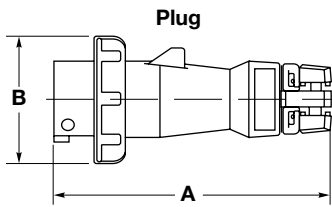


SAB34



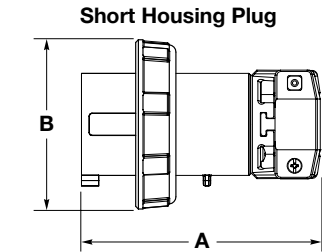
074093403

# Pin and Sleeve Devices/Mechanical Interlocks



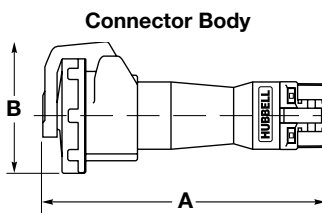
## Plug Dimensions

Type	A	B	Cord Grip Range
<b>HBL320P</b>	6.61" (167.8)	2.87" (73.0)	.330"-.830" (8.4-21.1)
<b>HBL420P</b>	7.00" (177.8)	3.19" (81.0)	.330"-.830" (8.4-21.1)
<b>HBL520P</b>	7.65" (194.3)	3.50" (89.0)	.330"-.830" (8.4-21.1)
<b>HBL330P</b>	8.05" (204.5)	3.74" (95.0)	.375"-1.250" (9.5-31.8)
<b>HBL430P</b>	8.05" (204.5)	3.74" (95.0)	.375"-1.250" (9.5-31.8)
<b>HBL530P</b>	8.54" (216.9)	4.02" (102.0)	.500"-1.450" (12.7-36.8)
<b>HBL360P, HBL460P, HBL560P</b>	10.15" (257.8)	4.49" (114.0)	.500"-1.450" (12.7-36.8)
<b>HBL3100P, HBL4100P, M4100P, HBL5100P, M5100P</b>	12.63" (320.8)	4.92" (125.0)	1.065"-1.940" (27.1-49.3)



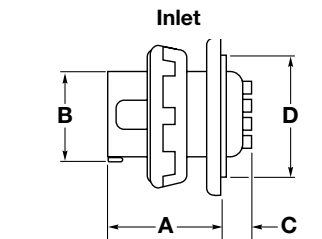
## Short Housing Plug Dimensions

Type	A	B	Cord Grip Range
<b>HBL5100P9WSH</b>	8.30" (210.82)	4.92" (125.0)	1.065"-1.940" (27.1-49.3)



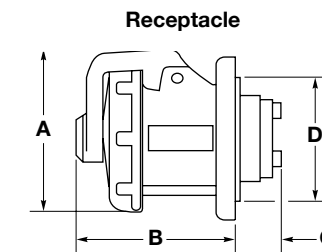
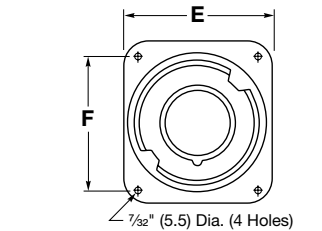
## Connector Body Dimensions

Type	A	B	Cord Grip Range
<b>HBL320C</b>	7.49" (190.3)	3.33" (84.6)	.330"-.830" (8.4-21.1)
<b>HBL420C</b>	7.90" (200.6)	3.66" (93.0)	.330"-.830" (8.4-21.1)
<b>HBL520C</b>	8.54" (216.9)	3.94" (100.0)	.330"-.830" (8.4-21.1)
<b>HBL330C</b>	9.05" (229.9)	4.27" (108.5)	.375"-1.250" (9.5-31.8)
<b>HBL430C</b>	9.05" (229.9)	4.27" (108.5)	.375"-1.250" (9.5-31.8)
<b>HBL530C</b>	9.68" (245.8)	4.70" (119.5)	.500"-1.450" (12.7-36.8)
<b>HBL360C, HBL460C, HBL560C</b>	11.15" (283.2)	5.10" (129.5)	.500"-1.450" (12.7-36.8)
<b>HBL3100C, HBL4100C, M4100C, HBL5100C, M5100C</b>	13.57" (344.7)	5.71" (145)	1.065"-1.940" (27.1-49.3)



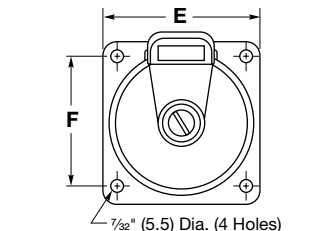
## Inlet Dimensions

Type	A	B	C	D	E	F
<b>HBL320B</b>	2.54" (64.5)	1.85" (47.0)	1.14" (29.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL420B</b>	2.54" (64.5)	2.11" (53.6)	1.14" (29.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL520B</b>	2.54" (64.5)	2.41" (61.2)	1.14" (29.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL330B</b>	2.99" (76.0)	2.49" (63.2)	1.04" (26.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL430B</b>	2.99" (76.0)	2.49" (63.2)	1.04" (26.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL530B</b>	2.99" (76.0)	2.75" (69.9)	1.04" (26.5)	2.80" (71.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL360B, HBL460B, HBL560B</b>	4.04" (102.6)	2.97" (75.5)	1.18" (30.0)	3.46" (88.0)	4.50" (114.3)	3.88" (98.5)
<b>HBL3100B, HBL4100B, M4100B, HBL5100B, M5100B</b>	4.53" (115)	3.44" (87.5)	1.95" (49.5)	3.94" (100.0)	5.50" (139.7)	4.88" (124.0)



## Receptacle Dimensions

Type	A	B	C	D	E	F
<b>HBL320R</b>	3.33" (84.5)	2.78" (70.6)	1.02" (26.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL420R</b>	3.66" (93.0)	2.78" (70.6)	1.02" (26.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL520R</b>	3.94" (100.0)	2.78" (70.6)	1.02" (26.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL330R</b>	4.27" (108.5)	3.09" (78.5)	1.16" (29.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL430R</b>	4.27" (108.5)	3.09" (78.5)	1.16" (29.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL530R</b>	4.70" (119.4)	3.09" (78.5)	1.16" (29.5)	2.83" (71.9)	3.75" (95.3)	3.13" (79.5)
<b>HBL360R, HBL460R, HBL560R</b>	5.10" (129.5)	4.07" (103.4)	1.69" (43.0)	3.46" (88.0)	4.50" (114.3)	3.88" (98.6)
<b>HBL3100R, HBL4100R, M4100R, HBL5100R, M5100R</b>	5.71" (145)	4.23" (107.4)	2.46" (62.5)	3.95" (100.3)	5.50" (139.7)	4.88" (123.9)



Note: 20, 30, 60 and 100A devices are dimensionally equivalent to 16, 32, 63 and 125A devices, respectively.

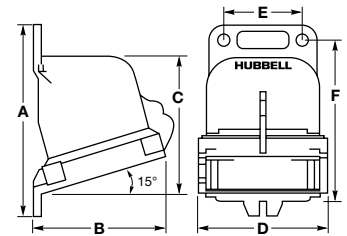
Dimensions in Inches (mm)

# Pin and Sleeve Devices/Mechanical Interlocks

## Non-Metallic 15° Angle Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Back box for 16, 20, 30 & 32A devices.	1"	5.67" (144.0)	4.44" (112.8)	4.05" (102.9)	3.91" (99.3)	2.35" (59.7)	4.92" (125.0)	30.00"	<b>BB2030N</b>
Back box for 60 & 63A devices.	1¼"	7.76" (197.0)	5.16" (131.0)	5.87" (149.0)	4.72" (120.0)	2.99" (76.0)	6.94" (176.0)	70.00"	<b>BB60N</b>
Back box for 100 & 125A devices.	1½"	8.21" (209.0)	6.23" (158.0)	6.31" (160.3)	5.71" (145.0)	3.99" (101.0)	7.41" (188.0)	120.00"	<b>BB100N</b>

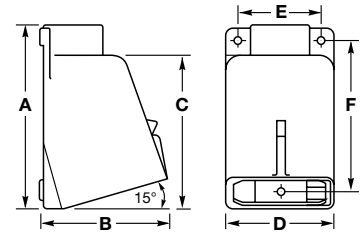
Note: \*Hub is not included; order one of the following *Raco*® part numbers: 1 inch = 1704, 1¼ inch = 1705, 1½ inch = 1706. These boxes meet IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.



Non-Metallic Angle Box

## Metallic 15° Angle Back Box

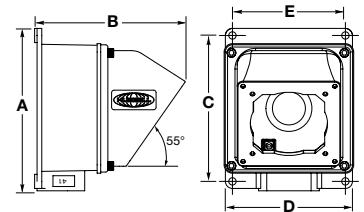
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Back box for 16, 20, 30 & 32A devices.	¾"	5.12" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	<b>BB201W</b>
Back box for 16, 20, 30 & 32A devices.	1"	5.12" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	<b>BB301W</b>
Back box for 60 & 63A devices.	1¼"	7.25" (184.2)	5.25" (133.4)	6.00" (152.4)	4.50" (114.3)	3.75" (95.3)	6.19" (157.2)	80.00"	<b>BB601W</b>
Back box for 60 & 63A devices.	1½"	7.25" (184.2)	5.25" (133.4)	6.00" (152.4)	4.50" (114.3)	3.75" (95.3)	6.19" (157.2)	80.00"	<b>BB602W</b>
Back box for 100 & 125A devices.	1½"	8.12" (206.4)	6.75" (171.5)	6.88" (174.6)	5.50" (139.7)	4.75" (120.7)	6.94" (176.2)	130.00"	<b>BB1001W</b>
Back box for 100 & 125A devices.	2"	8.12" (206.4)	6.75" (171.5)	6.88" (174.6)	5.50" (139.7)	4.75" (120.7)	6.94" (176.2)	130.00"	<b>BB1002W</b>



Metallic 15° Angle Box

## Metallic 55° Angle Back Box and Adapter

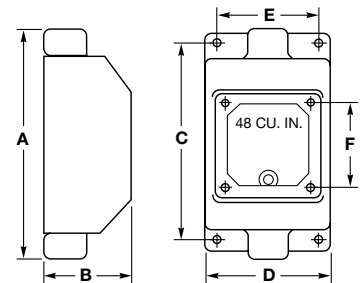
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Feed-thru box and angle adapter for 16, 20, 30 & 32A devices.	1"	6.80" (172.4)	6.60" (167.0)	5.63" (142.9)	4.50" (114.3)	3.74" (95.0)	–	42.27"	<b>AB203055</b>
Angle adapter for 16, 20, 30 & 32A devices.	–	4.89" (124.3)	3.33" (84.6)	4.29" (109.0)	3.75" (95.2)	2.50" (63.5)	–	25.00"	<b>AA203055</b>
Back box and angle adapter for 60, 63, 100 & 125A devices.	1½"	8.50" (215.9)	8.00" (202.9)	7.75" (196.8)	6.90" (174.8)	6.00" (152.4)	–	100.00"	<b>FW6010055</b>
Angle adapter for 60, 63, 100 & 125A devices.	–	6.75" (171.4)	4.48" (113.7)	6.00" (152.4)	6.75" (171.4)	6.00" (152.4)	–	79.00"	<b>AA6010055</b>



Metallic 55° Angle Box

## Metallic Feed-Thru Back Box

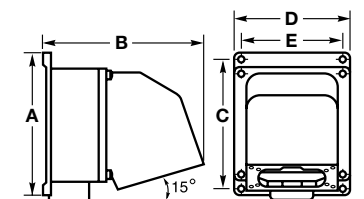
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Feed-thru box for 16, 20, 30 & 32A devices.	¾"	8.25" (209.6)	3.06" (77.8)	7.14" (181.4)	4.50" (114.3)	3.75" (95.3)	3.13" (79.5)	48.00"	<b>FT202W</b>
Feed-thru box for 16, 20, 30 & 32A devices.	1"	8.25" (209.6)	3.06" (77.8)	7.14" (181.4)	4.50" (114.3)	3.75" (95.3)	3.13" (79.5)	48.00"	<b>FT302W</b>



Metallic Feed-Thru Box

## Metallic Four-Way 15° Angle Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Four-way box for 60, 63, 100 & 125A devices.	1½"	8.75" (222.3)	9.75" (247.7)	7.75" (196.9)	6.75" (171.5)	6.00" (152.4)	–	210.00"	<b>FW60100</b>



Metallic Four-Way Angle Box

Note: These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint. These boxes withstand a 500-hour salt spray test as well as UL rain tight and external icing test.

Dimensions in Inches (mm)

# Pin and Sleeve Devices/Mechanical Interlocks

## Watertight Materials

Part	Material
<b>Inlet</b>	
Housing	Zytel® 101 Nylon
Locking Ring	Reinforced Thermoplastic Polyester
Mounting Flange	Zytel® 101 Nylon
Mounting Screws	Stainless Steel (300 Series)
Contact Carrier	High-Impact Thermoset
Retainer	High-Impact Thermoset
Ground, Phase Pins	Brass (M-Series - Nickel-plated brass)
Terminal Screws	Stainless Steel (300 Series)
Assembly Screws (2)	Stainless Steel (300 Series)
Gaskets	Solid Neoprene
<b>Connector Body</b>	
Housing	Zytel® ST801 Nylon
Cord Clamps	Reinforced Thermoplastic Polyester
Glands	Solid Neoprene
Cover Arms	Reinforced Thermoplastic Polyester
Arm Springs	Stainless Steel (17-7 type)
Covers	Reinforced Thermoplastic Polyester
Cover Screw	Nickel-plated brass
Rotating Sealing Disc	Polycarbonate
Gaskets	Solid Neoprene
Contact Carrier	High-Impact Thermoset
Retainer	High-Impact Thermoset
Phase, Ground Sleeves	Brass
Sleeve Spring	20A and 30A Stainless Steel (300 Series); others are Beryllium Copper multi-contact inserts with silver plating
Terminal Screws	Stainless Steel (300 Series)
Assembly Screws	Stainless Steel (300 Series)
<b>Plug</b>	
Housing	Zytel® ST801 Nylon
Locking Ring	Reinforced Thermoplastic Polyester
Sealing Gasket	Solid Neoprene
Cord Clamp	Reinforced Thermoplastic Polyester
Gland Cap	Reinforced Thermoplastic Polyester
Gland	Solid Neoprene
Cord Clamp Screws	Stainless Steel (300 Series)
Clamp Nut	Nickel-Plated Brass
Gland Clamp Screws	Stainless Steel (300 Series)
Contact Carrier	High-Impact Thermoset
Retainer	High-Impact Thermoset
Ground, Phase Pins	Brass (M-Series - Nickel-plated brass)
Terminal Screws	Stainless Steel (300 Series)
Assembly Screws	Stainless Steel (300 Series)
<b>Receptacle</b>	
Housing	Zytel® 101 Nylon
Mounting Flange	Zytel® 101 Nylon
Arm Spring	Stainless Steel (17-7 type)
Cover Arm	Reinforced Thermoplastic Polyester
Cover	Reinforced Thermoplastic Polyester
Cover Screw	Nickel-plated brass
Rotating Sealing Disc	Polycarbonate
Gaskets	Solid Neoprene
Mounting Screws	Stainless Steel (300 Series)
Terminal Screws	Stainless Steel (300 Series)
Phase, Ground Sleeves	Brass
Sleeve Spring	20A and 30A Stainless Steel (300 Series); others are Beryllium Copper multi-contact inserts with silver plating

Listed to standard UL1682/CSA C22.2 No. 182.1-02, Plugs, Receptacles and cable connectors of the Pin and Sleeve Type.

UL Classified to IEC Standards 60309-1 (Plugs, Socket Outlets, and Couplers for Industrial Purposes) for Series I (European) rated voltages and services.

When used with cord, these devices require no further investigation by UL for equipment Classification to IEC 435 or IEC 380.

## Specifications

### Typical Specification

Manufacturer's Identification	Hubbell HBL520P9W
Description	Plug, Power Supply
Type	3 Pole + Neutral + Earth
Rating	20A, 120/208V AC, 3 Phase WYE
Configuration	UL 1686 C2, IEC 60309-2, Clock Position 9, Watertight
Certification	UL Listed, File E146032 Receptacles and Inlets, E146033 Plugs and Connectors, UL Standard UL1682 and UL 1686C2, CSA Certified File LR280C for Plugs, Connectors Inlets and LR285C for Receptacle CSA Standard C22.2 No. 182.1, UL Classified to IEC 60309-1 IEC 60309-2

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# Pin and Sleeve Devices/Mechanical Interlocks

## Performance

### Electrical

Dielectric Withstand Voltage	3000V AC.
Max. Working Voltage	600V RMS (i.e., minimum creepage distance 10 millimeters, minimum clearance 8 millimeters, per IEC 60309-1 for devices rated over 500V).
Current Interrupting	Certified for current interrupting at full rated current (Except DC rated devices).
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Endurance	5,000 connect and disconnect cycles with load for 16A and 20A, 1,000 cycles with load and 1,000 cycles without load for 30A, 32A, 60A and 63A, and 250 cycles with load and 250 cycles without load for 100A and 125A.

### Mechanical

Impact Resistance	Per CSA C22.2 No. 182.1 / UL1682.
Cord Grip Cable Retention	Per CSA C22.2 No. 182.1 / UL1682.
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49 and the harmonized <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with North American and IEC conventions.
Product Identification	Identification and ratings are a permanent part of the device housing.

### Environmental

Moisture Resistance	Watertight per IEC 60309-1.
Ingress Protection	IP67 Suitability.
Flammability	HB or better per UL 94 or CSA C22.2 No. 0.17.
Operating Temperatures	Maximum Continuous 75°C; Minimum - 40°C without impact.

### Materials

Housings	Nylon.
All Other Materials	Resistant to corrosion and chemical attack.

Note: Specification sheets for all other Pin and Sleeve catalog numbers are available upon request.

## Horsepower Ratings for IEC Pin and Sleeve

### Single Phase

Amps	Wire Count	Voltage	Clock	Catalog Number	New HP Rating
20	3	125V	4	HBL320x4W	1
20	3	250V	6	HBL320x6W	2
20	3	480V	7	HBL320x7W	5
20	4	125/250 (208L-L)	12	HBL420x12W	2
20	4	125/250 (250L-L)	12	HBL420x12W	2
20	4	125/250 (125L-N)	12	HBL420x12W	1
30	3	125V	4	HBL330x4W	2
30	3	250V	6	HBL330x6W	3
30	3	480V	7	HBL330x7W	7.5
30	3	550VDC	8	HBL330X8	N/A
30	4	125/250 (208L-L)	12	HBL430x12W	3
30	4	125/250 (250L-L)	12	HBL430x12W	3
30	4	125/250 (125L-N)	12	HBL430x12W	2
60	3	125V	4	HBL360x4W	2
60	3	250V	6	HBL360x6W	3
60	3	480V	7	HBL360x7W	7.5
60	3	250VDC	3	HBL360x3W	N/A
60	3	550VDC	8	HBL360x8W	N/A
60	4	125/250 (208L-L)	12	HBL460x12W	3
60	4	125/250 (250L-L)	12	HBL460x12W	3
60	4	125/250 (125L-N)	12	HBL460x12W	2
100	3	125V	4	HBL3100x4W	5
100	3	250V	6	HBL3100x6W	15
100	3	480V	7	HBL3100x7W	30
100	3	250VDC	3	HBL3100x3W	N/A
100	3	550VDC	8	HBL3100x8W	N/A
100	4	125/250 (208L-L)	12	HBL4100x12W	10
100	4	125/250 (250L-L)	12	HBL4100x12W	15
100	4	125/250 (125L-N)	12	HBL4100x12W	5

### 3-Phase

Amps	Wire Count	Voltage	Clock	Catalog Number	Present HP Rating	New HP Rating
20	4	3Ø 250V	9	HBL420x9W	2	5
20	4	3Ø 480V	7	HBL420x7W	5	10
20	4	3Ø 600V	5	HBL420x5W	7.5	10
20	4	3Ø 380-415V	6	HBL420x6W	-	7.5
20	5	3ØY 120/208V	9	HBL520x9W	0.5	3
20	5	3ØY 277/480V	7	HBL520x7W	5	10
20	5	3ØY 347/600V	5	HBL520x5W	7.5	10
20	5	3Ø 240/415V	6	HBL520x6W	-	5
30	4	3Ø 250V	9	HBL430x9W	3	7.5
30	4	3Ø 480V	7	HBL430x7W	7.5	15
30	4	3Ø 600V	5	HBL430x5W	10	20
30	5	3ØY 120/208V	9	HBL530x9W	2	5
30	5	3ØY 277/480V	7	HBL530x7W	7.5	15
30	5	3ØY 347/600V	5	HBL530x5W	10	20
30	4	3Ø 380/415V	6	HBL430x6W	-	10
30	5	3Ø 200/346-240/415	6	HBL530x6W	-	10
60	4	3Ø 250V	9	HBL460x9W	5	7.5
60	4	3Ø 480V	7	HBL460x7W	10	20
60	4	3Ø 600V	5	HBL460x5W	15	25
60	4	3Ø 380-415VAC	6	HBL460x6W	-	10
60	5	3ØY 120/208V	9	HBL560x9W	3	7.5
60	5	3ØY 277/480V	7	HBL560x7W	10	20
60	5	3ØY 347/600V	5	HBL560x5W	15	25
60	5	3Ø 200/346-240/415	6	HBL560x6W	-	10
100	4	3Ø 250V	9	HBL4100x9W	10	15
100	4	3Ø 480V	7	HBL4100x7W	30	40
100	4	3Ø 600V	5	HBL4100x5W	30	50
100	4	3Ø 380-415V	6	HBL4100x6W	-	30
100	5	3ØY 200/346-240/415V	6	HBL5100x6W	-	30
100	5	400VDC	8	HBL5100x8W	-	N/A
100	5	3ØY 120/208V	9	HBL5100x9W	10	15
100	5	3ØY 277/480V	7	HBL5100x7W	30	40
100	5	3ØY 347/600V	5	HBL5100x5W	30	50



# Pin and Sleeve Devices/Mechanical Interlocks

## Features and Benefits

**IP67**  
SUITABILITY

### Unfused Circuit-Lock® Pin and Sleeve Mechanical Interlocks

The National Electrical Code (NEC®) requires a separate disconnect means within sight of all motor loads. The NEC requires the disconnecting means in a motor-circuit be listed as “Suitable as Motor Disconnect” if the motor is rated greater than 2 HP.

Hubbell’s revolutionary Circuit-Lock interlock incorporates the disconnect switch and receptacle in one compact, non-metallic and economical unit. Removing the plug and locking it out provides a visual means of verifying equipment has been disconnected. All Circuit-Lock mechanical interlocks can be locked out as a method of compliance with the OSHA Lockout/Tagout regulation.

The switch cannot be turned ON until the plug is completely engaged, and the plug cannot be removed until the switch is turned OFF. At the same time, it eliminates the possibility of making or breaking the circuit under load or making a casual or “lazy” connection. The non-metallic enclosure can be connected to the metallic conduit and not interfere with the ground continuity.

In addition, these horsepower rated units are durable, watertight and easy to install. And they are compatible with IEC 60309-2 plugs. These Circuit-Lock units are available in 20, 30, 60 and 100A models, and in 3, 4 and 5 wire configurations that are designed to the IEC 60309-1 and 60309-2 standards.

Hubbell’s Circuit-Lock Mechanical Interlocks are also available in “Reverse Service” versions. These units incorporate the disconnect switch and reverse service receptacle (inlet) in one compact, non-metallic and economical unit. These units are available in 30, 60 and 100A models, 4 wire configurations.



**HBL430MI7W**



#### Housing Design

- Insulated non-metallic housing, super tough, non-conductive and chemical resistant for heavy duty industrial environments
- IEC pin and sleeve devices are color coded by voltage for easy identification
- Self-closing gasketed cover, detents into position to fully close automatically



#### Interior Design

- Large gears enclosed in a gear box assembled on one plane to eliminate possible gear jumping
- Horsepower rated disconnect switch handles large motor loads
- DIN rail mounted switch for easy installation and replacement



#### Safety

- Lockable handle to meet OSHA Lockout/Tagout regulations
- Two-stage interlocking mechanism to help defeat tampering
- Watertight conduit hub and grounding plate for use on metallic conduit (IP67 suitability)
- Captured neoprene gasket for a watertight seal



#### Liftcover

- Replaceable spring-loaded liftcover with gasket for a watertight seal
- Pre-wired IEC Pin and Sleeve receptacle
- Reverse service has dependable solid brass pins for longer life and reliable electrical contact



#### Identification

- Color coded rating pad and receptacle mount to signify voltage



#### Installation

- Comes with brass inserts and stainless steel screws for higher torque and better sealing
- Three molded-in conduit drill points are located on top, bottom and back surface of enclosure
- Adjustable mounting feet are ductile to allow mounting on irregular surfaces

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

Rating				Unfused Circuit-Lock® Devices				Reverse Service	
Amps	Poles and Wires	Configuration Recep.	Plug	AC Voltage	Mechanical Interlock	Mating Plug	Mechanical Interlock	Mating Plug	
20	3P 4W			120/240V			—	—	
	3P 4W			3Ø 240V			—	—	
	3P 4W			3Ø 480V			—	—	
	3P 4W			3Ø 600V			—	—	
30	2P 3W			120V			—	—	
	2P 3W			240V			—	—	
	2P 3W			480V			—	—	
	3P 4W			120/240V			—	—	
	3P 4W			3Ø 240V			HBL430MI9WR	HBL430P9WR	
	3P 4W			3Ø 480V			HBL430MI7WR	HBL430P7WR	
	3P 4W			3Ø 600V			HBL430MI5WR	HBL430P5WR	
	4P 5W			3ØY 120/208V			—	—	
	4P 5W			3ØY 277/480V			—	—	
	4P 5W			3ØY 347/600V			—	—	
32	3P 4W			380V 50HZ-440V 60Hz			—	—	
60	2P 3W			120V			—	—	
	2P 3W			240V			—	—	
	2P 3W			480V			—	—	
	3P 4W			120/240V			HBL460MI12WR	HBL460P12WR	
	3P 4W			3Ø 240V			HBL460MI9WR	HBL460P9WR	
	3P 4W			3Ø 480V			HBL460MI7WR	HBL460P7WR	
	3P 4W			3Ø 600V			HBL460MI5WR	HBL460P5WR	
	4P 5W			3ØY 120/208V			—	—	
	4P 5W			3ØY 277/480V			—	—	
	4P 5W			3ØY 347/600V			—	—	
100	2P 3W			240V			—	—	
	3P 4W			120/240V			HBL4100MI12WR	HBL4100P12WR	
	3P 4W			3Ø 240V			HBL4100MI9WR	HBL4100P9WR	
	3P 4W			3Ø 480V			HBL4100MI7WR	HBL4100P7WR	
	3P 4W			3Ø 600V			HBL4100MI5WR	HBL4100P5WR	
	4P 5W			3ØY 120/208V			—	—	

Note: 20, 30 and 32A – 1 inch NPT hub supplied; 60 and 100A – 1/4 inch hub supplied.

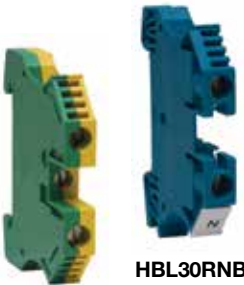
# Pin and Sleeve Devices/Mechanical Interlocks



HBLAC1



HBLAC2



HBL30RGB

HBL30RNB



MICPK30



CA3430MI



HBL30MIRS



HBLRFT2

Dimensions in Inches (mm)

## Auxiliary Contacts for 20, 30, 32, 60 and 100A Switch, NEMA A600 Pilot Duty

Description	Catalog Number
"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	<b>HBLAC1</b>
"Break Before Main Break", 1 set of n/o contacts.	<b>HBLAC2</b>

## Ground Block

Description	Catalog Number
For 20, 30 and 32A switches.	<b>HBL30RGB</b>
For 60 and 100A switches.	<b>HBL60100RGB</b>

## Neutral Block

Description	Catalog Number
For 20, 30 and 32A switches.	<b>HBL30RNB</b>
For 60A switches.	<b>HBL60RNB</b>
For 100A switches.	<b>HBL100RNB</b>

## Watertight Closure Plug Kits

Description	Catalog Number
For 20, 30 and 32A Circuit-Lock Unfused and Fused Pin and Sleeve mechanical interlocks.	<b>MICPK30</b>
For 60 and 100A Circuit-Lock Unfused and Fused Pin and Sleeve mechanical interlocks.	<b>MICPK60</b>

## Replacement Flip Covers

Description	Catalog Number
For 20A mechanical interlocks.	<b>CA420MI</b>
For 30 and 32A, 3 and 4 wire mechanical interlocks.	<b>CA3430MI</b>
For 30A, 5 wire mechanical interlocks.	<b>CA530MI</b>
For 60A mechanical interlocks.	<b>CA60MI</b>
For 100A mechanical interlocks.	<b>CA100MI</b>

## Replacement Switches

Description	Catalog Number
For 20A mechanical interlocks.	<b>HBLDS3RS</b>
For 30 and 32A mechanical interlocks.	<b>HBL30MIRS</b>
For 60 and 100A mechanical interlocks.	<b>HBLDS60100RS</b>

## Replacement Mounting Feet

Description	Catalog Number
For 20, 30, 32, 60 and 100A mechanical interlocks.	<b>HBLRFT2*</b>

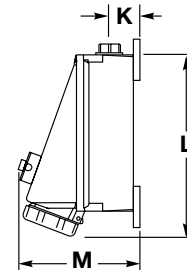
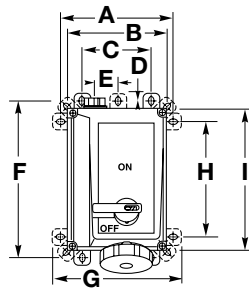
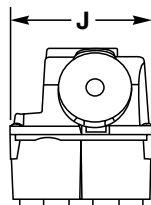
## Dimensions

KEY	20A and 30A Inches (mm)	60A Inches (mm)	100A Inches (mm)
A	7.75" (196.9)	7.75" (196.9)	7.75" (196.9)
B	6.87" (174.5)	6.87" (174.5)	6.87" (174.5)
C	4.75" (120.7)	4.75" (120.7)	4.75" (120.7)
D	1.02" (25.9)	1.02" (25.9)	1.02" (25.9)
E	1.60" (40.6)	1.46" (37.1)	1.46" (37.1)
F	11.00" (279.4)	12.75" (323.9)	12.75" (323.9)
G	8.75" (222.3)	8.75" (222.3)	8.75" (222.3)
H	8.00" (203.2)	9.75" (247.7)	9.75" (247.7)
I	10.12" (257.0)	11.87" (301.5)	11.87" (301.5)
J	6.88" (174.8)	6.88" (174.8)	6.88" (174.8)
K	1.93" (49.0)	2.09" (53.1)	2.09" (53.1)
L	11.25" (285.8)**	13.65" (346.7)	13.65" (346.7)
M	7.75" (196.9)	8.60" (218.4)	9.30" (236.2)
HUB SIZE	1.00" NPT	1.25" NPT	1.25" NPT

Note: \*Package of 10 feet and 10 screws.

\*\*30 and 32A, 3 and 4W = 11.50" (292.1);

30A, 5W = 11.59" (294.4).



# Pin and Sleeve Devices/Mechanical Interlocks

## Typical Specifications

Manufacturer's Identification	Hubbell HBL430MI7W
Description	Circuit-Lock® Pin and Sleeve Mechanical Interlock
Electrical Type	3 Pole + Earth
Rating	30A, 480V AC, 3 Phase
Configuration	IEC 60309-2, UL1686 C2, Clock position 7
Enclosure Type	Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling Dirt and Noncorrosive Liquids)
Ingress Protection	IP67 Suitability
Enclosure Material	Non-metallic, enclosure suitable for metallic conduit
Certification	UL Listed, CSA Certified

*Note: This device provides on/off switched control of a plug connected load and includes an interlocking feature to prevent the plug from being disconnected while the receptacle is energized. The switch cannot be turned "ON" until the plug is inserted properly, and the plug cannot be removed until the switch is turned "OFF."*

## Materials

Part	Material	Part	Material
Base	Valox®	Top	Valox®
Handle	Valox®	Conduit Hub	Zinc
Enclosure Gasket	Neoprene	Shaft	Valox®
Shaft Seal	Neoprene	Ground Plate	Galvanized Steel
Enclosure Screws	Stainless Steel 300 Series	Enclosure Inserts	Brass
Hinge Pins	Nickel Plated Brass	Hinge Spring	Stainless Steel 300 Series

## Performance

Electrical	
Dielectric Voltage	Withstands 3,000V AC Min.
Max. Working Voltage	600V AC RMS.
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes at the voltage rating of the receptacle. 20A and 30A models: Suitable for use on a circuit capable of delivering not more than 65,000 RMS symmetrical amperes, 600V when protected by class "J" fuses rated 30A.
Operations	Mechanical 10,000 cycles, electrical 6,000 cycles.

### Mechanical

Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Identification	Identification and ratings are part of the external label and molded into the receptacle mount.
Mounting	External adjustable feet.

### Environmental

Moisture Resistance	Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling Dirt and Noncorrosive Liquids).
Ingress Protection	IP67 Suitability.
Flammability	UL94-5VA and V-0 Classification.
Operating Temperature	Max. Continuous +75°C; Min. Continuous -40°C.
UV Resistance	All materials are UV stabilized.

## Horsepower Ratings

Amps	AC Voltage Rating	Horsepower	Mechanical Interlock	Mating Plug
20	120/240V AC	2	<b>HBL420MI12W</b>	<b>HBL420P12W</b>
20	3Ø 240V AC	5	<b>HBL420MI9W</b>	<b>HBL420P9W</b>
20	3Ø 480V AC	10	<b>HBL420MI7W</b>	<b>HBL420P7W</b>
20	3Ø 600V AC	10	<b>HBL420MI5W</b>	<b>HBL420P5W</b>
30	120V AC	2	<b>HBL330MI4W</b>	<b>HBL330P4W</b>
30	240V AC	3 (208-240V AC)	<b>HBL330MI6W</b>	<b>HBL330P6W</b>
30	480V AC	7.5	<b>HBL330MI7W</b>	<b>HBL330P7W</b>
30	120/240V AC	3 (208-240V AC)	<b>HBL430MI12W</b>	<b>HBL430P12W</b>
30	3Ø 600V AC	20	<b>HBL430MI5W</b>	<b>HBL430P5W</b>
30	3Ø 480V AC	15	<b>HBL430MI7W</b>	<b>HBL430P7W</b>
30	3Ø 250V AC	7.5	<b>HBL430MI9W</b>	<b>HBL430P9W</b>
30	3ØY 347/600V AC	20	<b>HBL530MI5W</b>	<b>HBL530P5W</b>
30	3ØY 277/480V AC	15	<b>HBL530MI7W</b>	<b>HBL530P7W</b>
30	3ØY 120/208V AC	5	<b>HBL530MI9W</b>	<b>HBL530P9W</b>
32	380V AC 50Hz – 440V AC 60Hz	15 (440V AC 3Ø 60Hz)	<b>HBL432MI3W</b>	<b>HBL432P3W</b>
60	120V AC	3	<b>HBL360MI4W</b>	<b>HBL360P4W</b>
60	240V AC	7.5 (208-240V AC)	<b>HBL360MI6W</b>	<b>HBL360P6W</b>
60	480V AC	20	<b>HBL360MI7W</b>	<b>HBL360P7W</b>
60	120/240V AC	7.5 (208-240V AC)	<b>HBL460MI12W</b>	<b>HBL460P12W</b>
60	3Ø 600V AC	40	<b>HBL460MI5W</b>	<b>HBL460P5W</b>
60	3Ø 480V AC	30	<b>HBL460MI7W</b>	<b>HBL460P7W</b>
60	3Ø 250V AC	15	<b>HBL460MI9W</b>	<b>HBL460P9W</b>
60	3ØY 347/600V AC	40	<b>HBL560MI5W</b>	<b>HBL560P5W</b>
60	3ØY 277/480V AC	30	<b>HBL560MI7W</b>	<b>HBL560P7W</b>
60	3ØY 120/208V AC	15	<b>HBL560MI9W</b>	<b>HBL560P9W</b>
100	240V AC	15 (10 @ 208V AC)	<b>HBL3100MI6W</b>	<b>HBL3100P6W</b>
100	120/240V AC	15	<b>HBL4100MI12W</b>	<b>HBL4100P12W</b>
100	3Ø 600V AC	50	<b>HBL4100MI5W</b>	<b>HBL4100P5W</b>
100	3Ø 480V AC	50	<b>HBL4100MI7W</b>	<b>HBL4100P7W</b>
100	3Ø 250V AC	25 (208-240V AC)	<b>HBL4100MI9W</b>	<b>HBL4100P9W</b>
100	3ØY 120/208V AC	20	<b>HBL5100MI9W</b>	<b>HBL5100P9W</b>

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



# Pin and Sleeve Devices/Mechanical Interlocks

## Features and Benefits

**IP66**  
SUITABILITY

### Fused Circuit-Lock® Pin and Sleeve Mechanical Interlocks

Hubbell Circuit-Lock® Pin and Sleeve Mechanical Interlocks are a revolutionary design that incorporates a disconnect switch and pin and sleeve receptacle in a compact non-metallic unit. These devices offer maximum safety by preventing users from mating or breaking a circuit under load—Hubbell's interlock mechanism detects the presence of a plug and prevents it from being removed when the switch is in the "ON" position.

It features a high visibility red handle that can be locked to meet OSHA lockout/tagout regulations, and the enclosure door can be locked to prevent unauthorized access. The rugged, corrosion-resistant Type 4X Valox® enclosure features adjustable mounting feet for flexible installation, while the receptacle's spring-loaded cover with gasket is dust tight and provides a watertight seal when turned and locked.

The patented Plug-Check™ mechanism detects the presence of the plug. It operates as a clutch to engage the handle with the switch and captures the plug. This action prevents the plug from being removed until the switch is turned OFF.

- Mechanically interlocked to prevent mating and breaking under load
- Available in both IEC and UL1686-C1 Insulgrip® styles
- IEC reverse service units available for safely connecting generators



HBL460MIF5W



#### Housing Design

- Non-metallic enclosure meets UL 50E Type 4X (watertight), 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged thermoplastic Valox® to resist abuse, corrosion and enhance safety
- Stainless steel ¼ turn door fasteners for quick, easy access to fuses



#### Interior Design

- Compact Fused Disconnect Switch accepts **Class "J" fuses**. Fuse holders are top mounted for easy access
- The switch accepts auxiliary contacts for control circuit applications including the ON/OFF control of remote pilot lights or signal for programmable controllers



#### Safety

- High visibility red handle can be locked in the OFF position as a method of compliance with OSHA lockout requirements. Accepts up to a 5/16 inch padlock shackle
- Replaceable spring-loaded receptacle liftcover with gasket ensures dust tight rating; liftcover provides watertight seal when turned and locked



#### Contact Carrier

- Thermoset polyester contact carrier provides resistance to electrical tracking and withstands higher temperatures
- Thermoset properties provide excellent dimensional stability, low moisture absorption and superior dielectric strength



#### Enclosure Door

- Removable door for ease of wiring and installation
- Enclosure door can be locked to prevent unauthorized access. Additionally, if the switch is ON, the door cannot be opened



#### Installation

- Three molded-in conduit drill points are located on the top, bottom and back surface of enclosure. Conduit hub provided: 30A 1 in. NPT, 60A 1¼ in. NPT
- Conduit hub and adjustable mounting feet (4) are ductile to allow mounting on irregular surfaces

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



**IP66**  
SUITABILITY

Enclosure Type 4X, 12

Rating					Fused Circuit-Lock® Devices		
Amps	Poles and Wires	Configuration Recept./ Conn.	Plug/ Inlet	AC Voltage	Mechanical Interlock	Mating Plug	
30	3P 4W			120/240V			HBL430MIF12W HBL430P12W
	3P 4W			3Ø 240V			HBL430MIF9W HBL430P9W
	3P 4W			3Ø 480V			HBL430MIF7W HBL430P7W
	3P 4W			3Ø 600V			HBL430MIF5W HBL430P5W
	4P 5W			3ØY 277/480V			HBL530MIF7W HBL530P7W
	4P 5W			3ØY 347/600V			HBL530MIF5W HBL530P5W
60	3P 4W			120/240V			HBL460MIF12W HBL460P12W
	3P 4W			3Ø 240V			HBL460MIF9W HBL460P9W
	3P 4W			3Ø 480V			HBL460MIF7W HBL460P7W
	3P 4W			3Ø 600V			HBL460MIF5W HBL460P5W
	4P 5W			3ØY 120/208V			HBL560MIF9W HBL560P9W

Note: 30A – 1 inch NPT hub supplied; 60A – 1¼ inch hub supplied.



HBL430MIF12W

Gray Style Switch



HBLACFSNO HBL30MIFRS

Black Style Switch



ACFSNO

30MIFRS

## Replacement Auxiliary Contacts

Description	Black Style Switch Catalog Number	Gray Style Switch Catalog Number
Auxiliary contact, normally open, A600 pilot duty, break before break.	ACFSNO	HBLACFSNO
Auxiliary contact, normally closed, A600 pilot duty, break before break.	ACFSNC	HBLACFSNC

Note: Auxiliary contacts are specific to the style switch noted and are NOT interchangeable. All new installations are shipped with gray style switch.

## Replacement Switches

Description	Black Style Switch Catalog Number	Gray Style Switch Catalog Number
For 30A fused switches.	30MIFRS	HBL30MIFRS
For 60A fused switches. Gray Style switch will retro fit Black Style switch.	—	HBL60MIFRS

Note: If replacing a Black Style switch, you must use the 30MIFRS. All other applications can use the Gray Style switch.



MICPK30

## Watertight Closure Plug Kits

Description	Catalog Number
For 30A Circuit-Lock® unfused and fused Pin and Sleeve mechanical interlocks.	MICPK30
For 60 and 100A Circuit-Lock® unfused and fused Pin and Sleeve mechanical interlocks.	MICPK60



CA3430MI

## Replacement Flip Covers

Description	Catalog Number
For 30A, 3 and 4 wire mechanical interlocks.	CA3430MI
For 30A, 5 wire mechanical interlocks.	CA530MI
For 60A mechanical interlocks.	CA60MI



HBLRFT2

## Replacement Mounting Feet

Description	Catalog Number
Replacement mounting feet and screws for 30 and 60A fused mechanical interlocks.	HBLRFT2 <sup>A</sup>

Note: <sup>A</sup>Package of 10 feet and 10 screws.

# Pin and Sleeve Devices/Mechanical Interlocks

## Specifications

### Typical Specifications

Manufacturer's Identification	Hubbell HBL460MIF7W
Description	Fused Circuit-Lock Pin and Sleeve Mechanical Interlock
Electrical Type	3 Pole + Earth
Rating	60A, 480V AC, 3 Phase
Configuration	IEC 60309-2, UL1686C2, Clock Position 7
Enclosure Type	Outdoor - 4X (Watertight, Washdown) Indoor - 12 (Dust-tight, Falling dirt)
Certification	UL Listed for US and Canada

## Materials

Part	Material
Base and Top	Valox®
Handle	Valox®
Conduit Hub	Zinc, 30A-1", 60A-1¼" NPT
Enclosure Gasket	Neoprene
Shaft	Brass
Shaft Seal	Neoprene
Ground Plate	Galvanized Steel
Enclosure Screws	Stainless Steel
Mounting Inserts	Brass
Hinge Pin	Nickel-Plated Brass
Hinge Spring	Stainless Steel

Note: This device provides fused switched control of a plug connected load and includes an interlocking feature to prevent the plug from being disconnected or the fuse door opened while the receptacle is energized. The switch cannot be turned on until the plug is inserted properly.

## Performance

Electrical	
Dielectric Voltage	Withstands 3,000V AC Min.
Max. Working Voltage	600V AC.
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 200,000 RMS symmetrical amperes at the voltage rating of receptacle.
Operations	
	Mechanical 10,000 cycles minimum.

Mechanical	
Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Ratings	Ratings are part of the external label and molded into the receptacle mount and color-coded.
Mounting	External adjustment feet.

Environmental	
Moisture Resistance	Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling dirt).
Ingress Protection	IP66 Suitability.
Flammability	UL94-5VA and V-0 Classification.
Operating Temperatures	Max. Continuous +75°C; Min. Continuous -40°C.
UV Resistance	All materials are UV stabilized.
Fuse Types	UL Listed Class "J". CSA Certified HRCI-J.

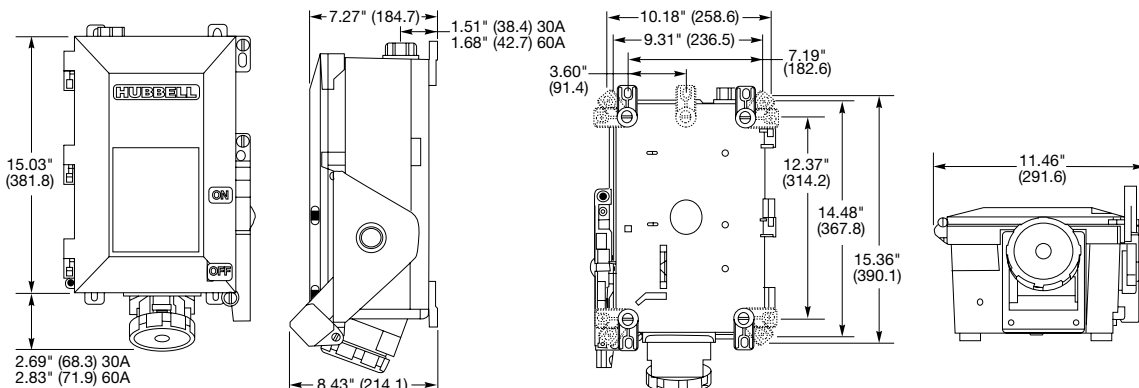
## Horsepower Ratings

Amps	AC Voltage Rating	Standard	Maximum**	Mechanical Interlock	Use Pin and Sleeve Plug
30	3Ø 600V AC	7.5	20	<b>HBL430MIF5W</b>	<b>HBL430P5W</b>
30	3Ø 480V AC	5	15	<b>HBL430MIF7W</b>	<b>HBL430P7W</b>
30	3Ø 240V	3	7.5	<b>HBL430MIF9W</b>	<b>HBL430P9W</b>
30	120/240V AC	1.5*	3*	<b>HBL430MIF12W</b>	<b>HBL430P12W</b>
30	3ØY 277/480V	5	15	<b>HBL530MIF7W</b>	<b>HBL530P7W</b>
30	3ØY 347/600V	7.5	20	<b>HBL530MIF5W</b>	<b>HBL530P5W</b>
60	3Ø 600V AC	15	50	<b>HBL460MIF5W</b>	<b>HBL460P5W</b>
60	3Ø 480V AC	15	30	<b>HBL460MIF7W</b>	<b>HBL460P7W</b>
60	3Ø 240V AC	7.5	15	<b>HBL460MIF9W</b>	<b>HBL460P9W</b>
60	120/240V AC	3*	10*	<b>HBL460MIF12W</b>	<b>HBL460P12W</b>
60	3ØY 120/208V	7.5	15	<b>HBL560MIF9W</b>	<b>HBL560P9W</b>

Note: \*208-240V AC L-L.

\*\*Requires time delay fuses.

## Dimensions



Dimensions in Inches (mm)

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## Features and Benefits

### 20 and 30 Amps Low Profile

Hubbell Wiring Device-Kellems Low Profile Compact Design, these devices are often used in indoor locations and maintenance, food service areas where aesthetics and space are concerns, assembly areas, stamping operations, warehouse and maintenance areas.

Applications: Agriculture, Chemical Processing, Construction, Entertainment, Food Service, Light Manufacturing, Military.



L430P9



L430R9



#### Housing Design

- Nylon construction, both interior and exterior are made of tough, durable nylon
- Shrouding, recessed pins are protected from impact and abuse



#### Cord Grip

- Integrated cord grip limits strain on terminals, keeps cord connected



#### Safety

- Large markings for easy recognition results in ease of wiring on the assembly line or in the field



#### Brass Box Terminal

- Permits high clamping pressure on conductors without damaging wire strands for best electrical conductivity
- Solid one-piece pins construction, for long life, reliable electrical contact and maximum conductivity



#### Identification

- Color coding for quick, easy visual identification of mating devices
- Ratings and certification are molded into the nylon housing for easy identification and reordering



#### Split Sleeves

- Self-adjusting stainless steel springs assure constant contact pressure (20A and 30A). On 60A devices, Beryllium copper insert with multiple contact points assures easy insertion and a tight fit
- Stainless steel terminal screws resist rust and corrosion

## Low Profile Devices

Rating					Devices		Cord Diameter	
Amps	Poles and Wires	Configuration Recep./ Plug/ Conn. Inlet	AC Voltage	Plug	Receptacle	Min. Inches	Max. (mm)	
20	3P 4W		<b>3Ø 250V</b>					
30	3P 4W		<b>125/250V</b>	<b>L430P12</b>	<b>L430R12</b>	.350" - .710"	(8.3 - 15.9)	
30	3P 4W		<b>3Ø 250V</b>	<b>L430P9</b>	<b>L430R9</b>	.390" - .775"	(9.9 - 19.7)	
60	3P 4W		<b>3Ø 250V</b>			.75" - 1.25"	(19.1 - 31.8)	
				With Cover:	<b>A460R9KIT</b>			
60	4P 5W		<b>3ØY 120/208V</b>			.89" - 1.42"	(22.6 - 36.1)	
100	4P 5W		<b>3ØY 120/208V</b>	<b>A5100P9</b>	<b>HBL5100R9W</b>	1.34" - 1.50"	(34.0 - 38.1)	

## Specifications

### Electrical

Dielectric Withstand Voltage	3000V AC
Max. Working Voltage	250V RMS
Current Interrupting Temperature Rise	Certified for current interruption at full rated current. Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Endurance	Up to 5,000 connect and disconnect cycles at full rated current and voltage.

### Mechanical

Impact Resistance	Per CSA C22.2 No. 182.1 / UL1682
Cord Grip Cable Retention	Per CSA C22.2 No. 182.1 / UL1682
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL standard 62, CSA C22.2 No. 49 and the <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with North American convention.
Product Identification	Ratings are a permanent part of the device housing.

### Environmental

Flammability	HB or better per UL94 or CSA C22.2 No. 0.17
Ingress Protection	IP22 Suitability
Operating Temperatures	Maximum Continuous 75° C; Minimum -40°C without impact

## Application Guide

Agriculture	Indoor location and maintenance.
Chemical Processing	Indoor location and maintenance.
Construction	Indoors for added safety and abuse resistance.
Entertainment	Indoor location and maintenance.
Food Service	Food service areas where aesthetics and space are concerns.
Light Manufacturing	Indoor locations and maintenance.
Manufacturing	Light assembly areas, stamping operations and maintenance areas.
Military	Warehouse and maintenance areas.

## Materials

Plug	Material
Case	Zytel® 101 Nylon
Shroud	Zytel® 101 Nylon
Pin Carrier 20 & 30A	Zytel® 101 Nylon
Pin and Carrier 60A	High-Impact Thermoset
Pins	Brass CDA#360
Assembly Screws	Stainless Steel (300 series)
Terminal Screws	Stainless Steel (300 series)
Receptacle	
Body	Zytel® 101 Nylon
Sleeve Carrier 20 & 30A	Zytel® 101 Nylon
Sleeve Carrier 60A	High-Impact Thermoset
Sleeves	Brass CDA #360
Assembly Screws	Stainless Steel (300 series)
Terminal Screws	Stainless Steel (300 series)
Adapter Plate 20 & 30A	Galvanized Steel
Adapter Plate 60A	Aluminum
Wall Trim Plate	Zytel® 101 Nylon
Panel Mount Trim Plate	Stainless Steel (300 series)

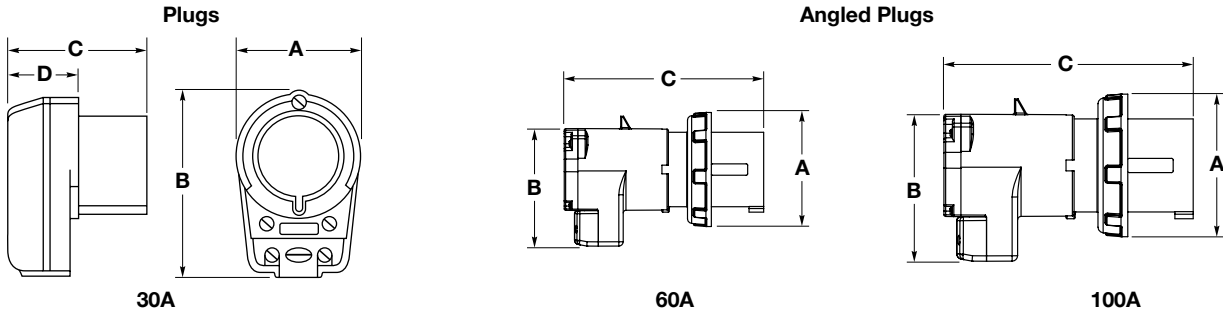
Note: See page G-29 for product dimensions.

® Zytel and Rynite are registered trademarks of E.I. DuPont Corp.

# Pin and Sleeve Devices/Mechanical Interlocks

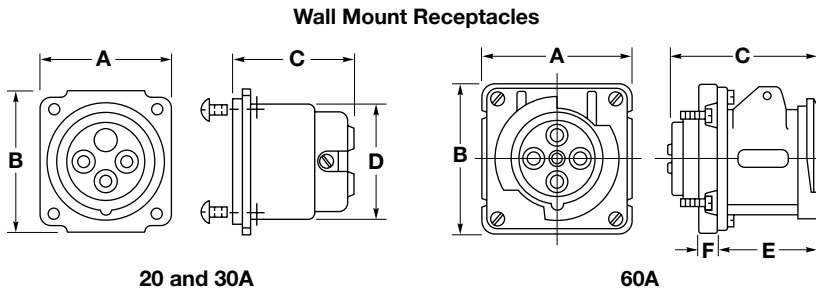
## Plug Dimensions

Type	A	B	C	D	Cord Range Diameter
<b>L430P12</b>	2.97" (75.4)	4.18" (106.2)	3.50" (88.9)	1.71" (43.4)	.390"-.775" (9.9-19.7)
<b>A460P9</b>	3.38" (85.9)	4.25" (108.0)	7.00" (177.8)	–	.75"-1.25" (19.1- 31.8)
<b>A5100P9</b>	4.92" (125.00)	5.07" (128.81)	8.60" (218.35)	–	1.34"-1.50" (34.0- 38.1)

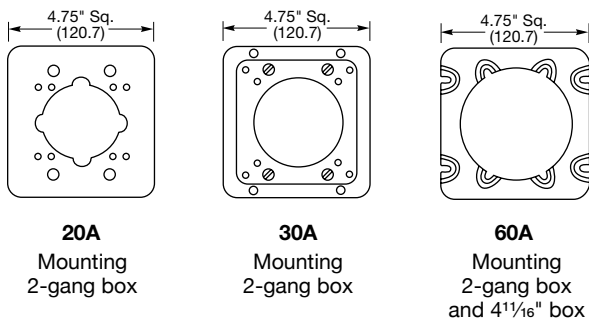


## Wall Mount Receptacle Dimensions

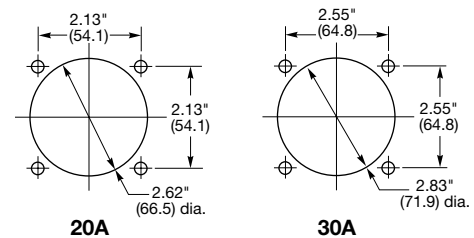
Type	A	B	C	D	E	F
<b>L420R9</b>	2.60" (66.0)	2.81" (71.4)	2.28" (57.9)	2.38" (60.5)	–	–
<b>L430R12</b>	3.12" (79.2)	3.12" (79.2)	2.77" (70.4)	2.76" (70.1)	–	–
<b>A460R9</b>	4.50" (114.3)	4.50" (114.3)	4.48" (113.8)	–	3.62" (91.9)	.50" (12.7)



## Adapter Plate (Included with "L" and "A" series receptacles)



## Panel Cutout



Dimensions in Inches (mm)



# Pin and Sleeve Devices/Mechanical Interlocks

## IEC Pin and Sleeve Terminal Identification – Rear View

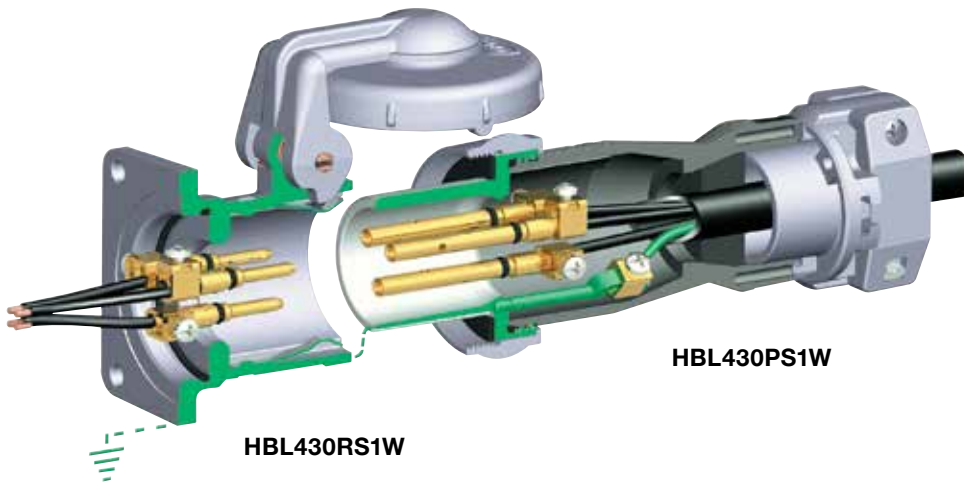
Description	Rating		Terminal Marking Pattern*			
	Domestic	International	Receptacle and Connector		Plug and Inlet	
			Domestic	International	Domestic	International
3 Wire	125V AC 277V AC	100-130V				
3 Wire	250V AC 480V AC 600V AC	200-250V 380-415V AC				
4 Wire	125/250V AC 1ØY 120/208V	—				
4 Wire	(3Ø Δ) 250V AC 480V AC 600V AC	380-415V AC				
5 Wire	(3ØY) 120/208V AC 277/480V AC 347/600V AC	220/380V 50Hz 250/440V 60Hz 200/346V to 240/415V 50 and 60Hz				

Note: \*Location of grounding contact position will change as clock positions assigned to specific voltages change.  
 ★Pilot contacts supplied on 4 and 5 wire, 63 and 125 Amp international rated devices.

# Pin and Sleeve Devices/Mechanical Interlocks

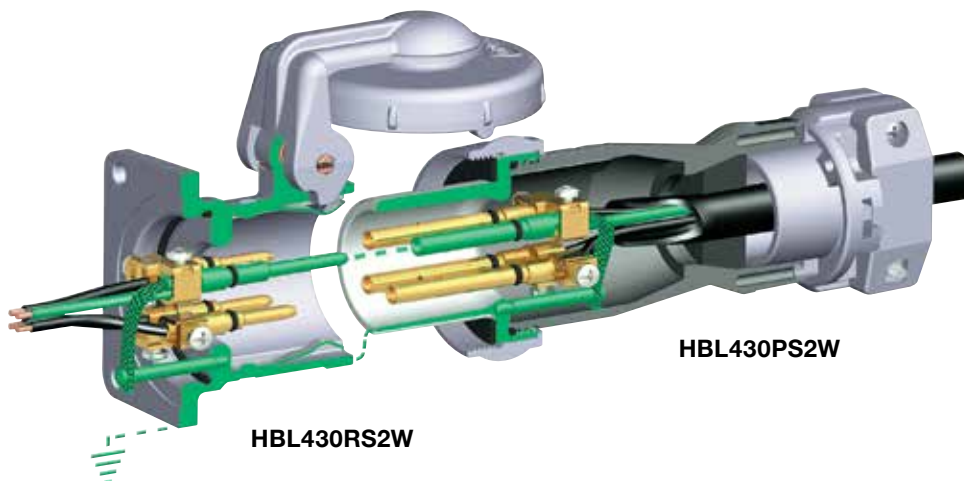
## Ground Path

To reduce the likelihood of electrical shock, the National Electrical Code requires that non-current carrying metallic components be grounded. Insulstrip Pin and Sleeve wiring devices offer two styles of grounding.



### Style I

Receptacles achieve grounding by attaching the ground conductor to the ground screw inside the back box and utilizing the metallic receptacle shell as a ground source (see 3P 4W Style I illustration). Plugs and connectors establish grounding by means of connecting the flexible cable ground conductor to a ground terminal within each device, which, in turn, is grounded through the metallic plug or connector shroud. Any exposed metallic components are suitably grounded in the Style I offering.



### Style II

The Style II ground path offers two means of achieving the proper ground path. In addition to utilizing the same grounding method as in the Style I product, the Style II version incorporates a separate ground pin and sleeve (see 3P 4W Style II illustration). This provides a second ground path. The ground pin on Style II devices is longer than other pins, meaning that they "make first" and "break last," assuring protection for people and equipment.

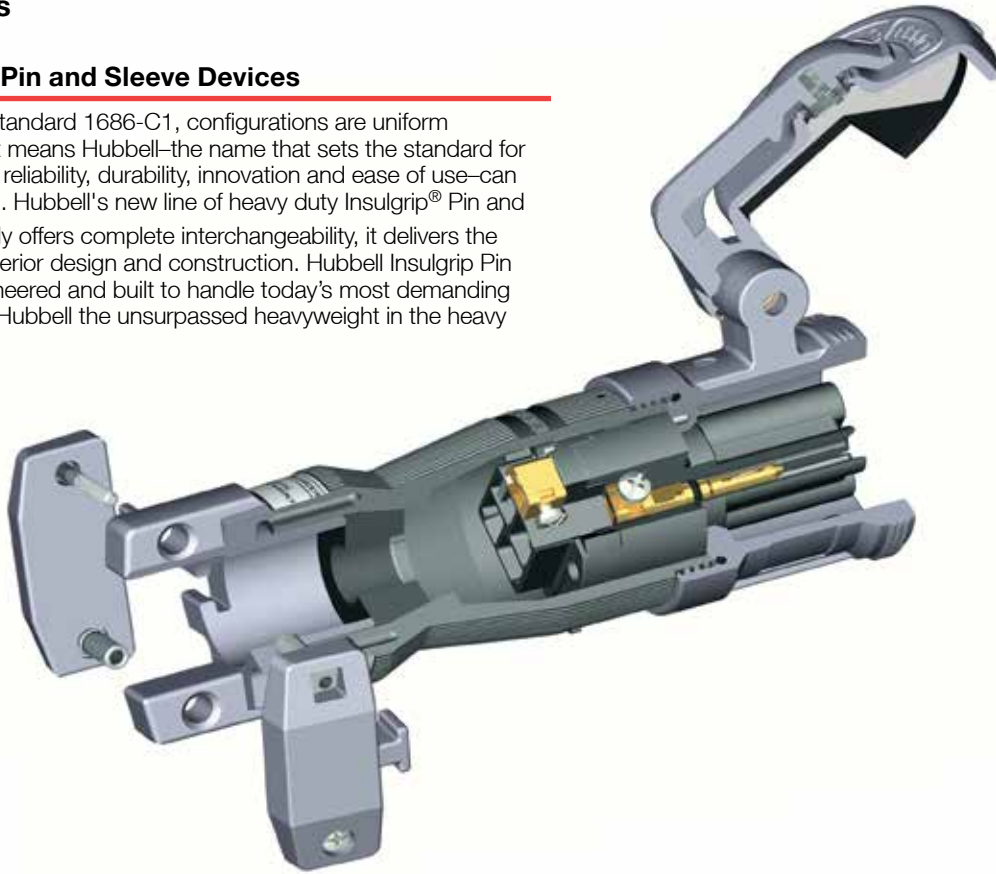
## New Pole and Wire Terminology

Style I			Style II		
New	Old	No. of Contacts	New	Old	No. of Contacts
2P 3W	2W 2P	2	2P 3W	2W 3P	3
3P 4W	3W 3P	3	3P 4W	3W 4P	4
4P 5W	4W 4P	4			

## Features and Benefits

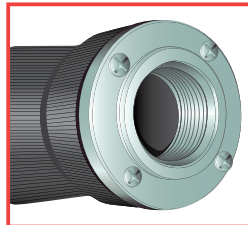
### UL 1686 C1 Insulgrip® Pin and Sleeve Devices

With the introduction of UL standard 1686-C1, configurations are uniform throughout the industry. That means Hubbell—the name that sets the standard for pin and sleeve performance, reliability, durability, innovation and ease of use—can finally become your standard. Hubbell's new line of heavy duty Insulgrip® Pin and Sleeve wiring devices not only offers complete interchangeability, it delivers the goods when it comes to superior design and construction. Hubbell Insulgrip Pin and Sleeve devices are engineered and built to handle today's most demanding work environments, making Hubbell the unsurpassed heavyweight in the heavy duty market.



#### Housing Design

- Thermoplastic housing provides excellent insulating, impact, corrosion, and UV resistant properties. Protects users and internal components in the roughest of environments
- Spring-loaded, gasketed cover provides a UL Type 4X watertight, dust-tight seal on connectors and receptacles



#### Liquidtight Conduit Adapters

- Machined aluminum adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of Hubbell Pin and Sleeve plug or connector



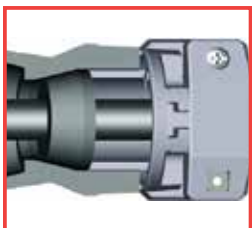
#### Powerful Mechanical Cord Grip

- Hubbell's design incorporates two molded-in teeth to securely grip the outer cable jacket, and internal conductors to prevent slippage and strain on terminations
- Captive barrel nuts ease assembly and allow higher tightening torque for maximum cord retention



#### Terminal Entrance Holes

- Large, square funneled entrance holes isolate each conductor to protect against shorts due to stray conductor strands
- Tapered hole provides a fast and easy guide into the termination chamber
- Pin chamber confines arcing within the interior chamber during make and break cycle of mating devices, minimizes arc tracking



#### Watertight Cord Entrance

- The tapered bore entrance creates high compression forces on sealing gland, providing a watertight seal around cord
- Individual solid neoprene glands are supplied to match a full range of cord sizes and assure watertight performance



#### Anti-Vibration Box Terminals

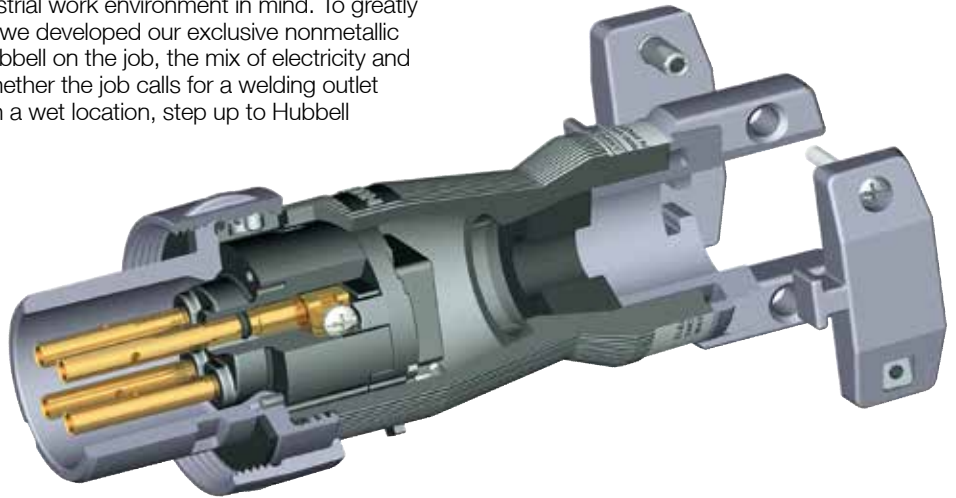
- Interlocking box terminals ensure that terminal screws remain secure and cannot loosen
- The floating box is designed to obtain high-torque values without damaging stranded conductors

## Features and Benefits

### UL 1686 C1 Insulgrip® Pin and Sleeve Devices

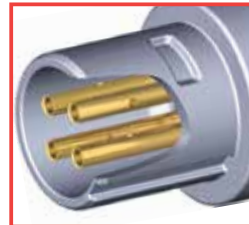
Metallic where you want it, non-metallic where you need it. Different from traditional all-metallic devices, Hubbell Pin and Sleeve wiring devices are designed to provide metallic shrouding where you want it and a non-metallic housing where you need it.

What's more, Hubbell's new watertight Insulgrip Pin and Sleeve wiring devices are designed with safety first and foremost. We created the line with plant facility maintenance personnel and a safer industrial work environment in mind. To greatly reduce the likelihood of electrical shock, we developed our exclusive nonmetallic watertight system, meaning that with Hubbell on the job, the mix of electricity and water isn't the threat it once was. So, whether the job calls for a welding outlet in a dry location or a motor disconnect in a wet location, step up to Hubbell Pin and Sleeve wiring devices.



#### Housing Design

- Thermoplastic housing provides excellent insulating, impact, corrosion, and UV resistant properties. Protects users and internal components in the roughest of environments
- Locking ring provides a UL Type 4X watertight and dust-tight seal when the male and female devices are connected



#### Shrouded Sleeves

- Housing seal provides a watertight and dust-tight seal when mated with receptacle or connector
- Protects the user from the possibility of touching live contacts during insertion and withdrawal of mating parts
- Shrouded sleeves protects contact sleeves from deforming from physical abuse



#### Interior Design

- Sleeve O-ring seal provides a watertight and dust-tight seal around the sleeves. Assures that contamination will not enter wire chamber
- All-brass sleeve contacts provide reliable electrical contact with mating pins, also with minimum heat build-up over time



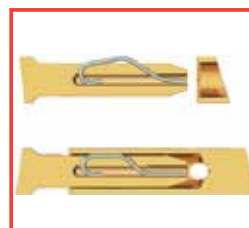
#### Thermoset Polyester Contact Carrier

- Molded thermoset polyester provides high resistance to electrical tracking
- Withstands higher temperatures which may result from overload or arcing
- Thermoset properties provide dimensional stability for this critical assembly



























#### Product Marking







- Catalog number and rating visible while in use. Markings are color coded differentiating Style I and Style II devices



#### Beryllium Copper Spring-Pin Design (Patented)

- Maintains high unit pressure on mating sleeves. Ensures reliable electrical contact while minimizing heat rise due to normal pin wear over time

Rating				Style I Devices			Replacement Interiors	
Amps	Poles and Wires	Receptacle/Connector Configuration*	Maximum Voltage AC/DC					
				Receptacle	Plug	Connector	Connector & Receptacle	Plug
30	2P 3W		600/250	<b>HBL330RS1W</b>	<b>HBL330PS1W</b>	<b>HBL330CS1W</b>	<b>IN330FS1</b>	<b>IN330MS1</b>
	3P 4W		600/250	<b>HBL430RS1W</b>	<b>HBL430PS1W</b>	<b>HBL430CS1W</b>	<b>IN430FS1</b>	<b>IN430MS1</b>
	4P 5W		600/250	<b>HBL530RS1W</b>	<b>HBL530PS1W</b>	<b>HBL530CS1W</b>	<b>IN530FS1</b>	<b>IN530MS1</b>
60	2P 3W		600/250	<b>HBL360RS1W</b>	<b>HBL360PS1W</b>	<b>HBL360CS1W</b>	<b>IN360FS1</b>	<b>IN360MS1</b>
	3P 4W		600/250	<b>HBL460RS1W</b>	<b>HBL460PS1W</b>	<b>HBL460CS1W</b>	<b>IN460FS1</b>	<b>IN460MS1</b>
	4P 5W		600/250	<b>HBL560RS1W</b>	<b>HBL560PS1W</b>	<b>HBL560CS1W</b>	<b>IN560FS1</b>	<b>IN560MS1</b>
100	2P 3W		600/250	<b>HBL3100RS1W</b>	<b>HBL3100PS1W</b>	<b>HBL3100CS1W</b>	<b>IN3100FS1</b>	<b>IN3100MS1</b>
	3P 4W		600/250	<b>HBL4100RS1W</b>	<b>HBL4100PS1W</b>	<b>HBL4100CS1W</b>	<b>IN4100FS1</b>	<b>IN4100MS1</b>
	4P 5W		600/250	<b>HBL5100RS1W</b>	<b>HBL5100PS1W</b>	<b>HBL5100CS1W</b>	<b>IN5100FS1</b>	<b>IN5100MS1</b>
200	3P 4W		600/250	<b>HBL4200RS1W</b>	<b>HBL4200PS1W</b>	<b>HBL4200CS1W</b>	<b>IN4200FS1†</b>	<b>IN4200MS1†</b>
	4P 5W		600/250	<b>HBL5200RS1W</b>	<b>HBL5200PS1W</b>	<b>HBL5200CS1W</b>	<b>IN5200FS1†</b>	<b>IN5200MS1†</b>
Rating				Style II Devices			Replacement Interiors	
Amps	Poles and Wires	Receptacle/Connector Configuration*	Maximum Voltage AC/DC	Receptacle	Plug	Connector	Connector & Receptacle	Plug
30	2P 3W		600/250	<b>HBL330RS2W</b>	<b>HBL330PS2W</b>	<b>HBL330CS2W</b>	<b>IN330FS2</b>	<b>IN330MS2</b>
	3P 4W		600/250	<b>HBL430RS2W</b>	<b>HBL430PS2W</b>	<b>HBL430CS2W</b>	<b>IN430FS2</b>	<b>IN430MS2</b>
60	2P 3W		600/250	<b>HBL360RS2W</b>	<b>HBL360PS2W</b>	<b>HBL360CS2W</b>	<b>IN360FS2</b>	<b>IN360MS2</b>
	3P 4W		600/250	<b>HBL460RS2W</b>	<b>HBL460PS2W</b>	<b>HBL460CS2W</b>	<b>IN460FS2</b>	<b>IN460MS2</b>
100	2P 3W		600/250	<b>HBL3100RS2W</b>	<b>HBL3100PS2W</b>	<b>HBL3100CS2W</b>	<b>IN3100FS2</b>	<b>IN3100MS2</b>
	3P 4W		600/250	<b>HBL4100RS2W</b>	<b>HBL4100PS2W</b>	<b>HBL4100CS2W</b>	<b>IN4100FS2</b>	<b>IN4100MS2</b>
200	2P 3W		600/250	<b>HBL3200RS2W</b>	<b>HBL3200PS2W</b>	<b>HBL3200CS2W</b>	<b>IN3200FS2†</b>	<b>IN3200MS2†</b>
	3P 4W		600/250	<b>HBL4200RS2W</b>	<b>HBL4200PS2W</b>	<b>HBL4200CS2W</b>	<b>IN4200FS2†</b>	<b>IN4200MS2†</b>

Rating				Corrosion Resistant Devices			Accessories	
Amps	Poles and Wires	Receptacle/Connector Configuration*	Maximum Voltage AC/DC					
				Receptacle	Plug	Connector	Back Boxes	Angle Adapter
200	4P 5W		600/250	<b>M5200RS1</b>	<b>M5200PS1</b>	<b>M5200CS1</b>	<b>MB2003W</b> <b>MB2004W</b>	<b>AA20045</b>

Note: \***CAUTION:** To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

\*\*While in use or with cover closed.

†Consult factory.

























Corrosion resistant cord sets are available on page Y-17 of this catalog.








# Pin and Sleeve Devices/Mechanical Interlocks



TYPE 4X\*\*

Rating				"Reversed Service" Style I Devices			Replacement Interiors	
Amps	Poles and Wires	Receptacle/ Connector Configuration*	Maximum Voltage AC/DC					
				Receptacle	Plug	Connector	Connector & Receptacle	Plug
30	2P 3W		600/250	HBL330RS1WR	HBL330PS1WR	HBL330CS1WR	IN330MS1	IN330FS1
	3P 4W		600/250	HBL430RS1WR	HBL430PS1WR	HBL430CS1WR	IN430MS1	IN430FS1
	4P 5W		600/250	HBL530RS1WR	HBL530PS1WR	HBL530CS1WR	IN530MS1	IN530FS1
60	2P 3W		600/250	HBL360RS1WR	HBL360PS1WR	HBL360CS1WR	IN360MS1	IN360FS1
	3P 4W		600/250	HBL460RS1WR	HBL460PS1WR	HBL460CS1WR	IN460MS1	IN460FS1
	4P 5W		600/250	HBL560RS1WR	HBL560PS1WR	HBL560CS1WR	IN560MS1	IN560FS1
100	2P 3W		600/250	HBL3100RS1WR	HBL3100PS1WR	HBL3100CS1WR	IN3100MS1	IN3100FS1
	3P 4W		600/250	HBL4100RS1WR	HBL4100PS1WR	HBL4100CS1WR	IN4100MS1	IN4100FS1
	4P 5W		600/250	HBL5100RS1WR	HBL5100PS1WR	HBL5100CS1WR	IN5100MS1	IN5100FS1
200	3P 4W		600/250	HBL4200RS1WR	HBL4200PS1WR	HBL4200CS1WR	IN4200MS1†	IN4200FS1†
	4P 5W		600/250	HBL5200RS1WR	HBL5200PS1WR	HBL5200CS1WR	IN5200MS1†	IN5200FS1†
Rating				"Reversed Service" Style II Devices			Replacement Interiors	
Amps	Poles and Wires	Receptacle/ Connector Configuration*	Maximum Voltage AC/DC	Receptacle	Plug	Connector	Connector & Receptacle	Plug
30	2P 3W		600/250	HBL330RS2WR	HBL330PS2WR	HBL330CS2WR	IN330MS2	IN330FS2
	3P 4W		600/250	HBL430RS2WR	HBL430PS2WR	HBL430CS2WR	IN430MS2	IN430FS2
60	2P 3W		600/250	HBL360RS2WR	HBL360PS2WR	HBL360CS2WR	IN360MS2	IN360FS2
	3P 4W		600/250	HBL460RS2WR	HBL460PS2WR	HBL460CS2WR	IN460MS2	IN460FS2
100	2P 3W		600/250	HBL3100RS2WR	HBL3100PS2WR	HBL3100CS2WR	IN3100MS2	IN3100FS2
	3P 4W		600/250	HBL4100RS2WR	HBL4100PS2WR	HBL4100CS2WR	IN4100MS2	IN4100FS2
200	2P 3W		600/250	HBL3200RS2WR	HBL3200PS2WR	HBL3200CS2WR	IN3200MS2†	IN3200FS2†
	3P 4W		600/250	HBL4200RS2WR	HBL4200PS2WR	HBL4200CS2WR	IN4200MS2†	IN4200FS2†

Rating				"Reversed Service" Corrosion Resistant Devices			Accessories	
Amps	Poles and Wires	Receptacle/ Connector Configuration*	Maximum Voltage AC/DC			Connector		
				Receptacle	Plug	Connector	Back Boxes	Angle Adapter
200	4P 5W		600/250	M5200BS1R	M5200CS1R	—	MB2003W MB2004W	AA20045

Note: \***CAUTION:** To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

\*\*While in use or with cover closed.

†Consult factory.

Corrosion resistant cord sets are available on page Y-17 of this catalog.

# Pin and Sleeve Devices/Mechanical Interlocks



MB30



MB304W

MB601003W



MB601006W



MB2003W



CC3430



ILR1

SAB34

074093403

## Insulgrip Pin and Sleeve Metallic Back Boxes

Hubbell manufactures an extensive line of back boxes for use with UL 1686 Pin and Sleeve devices. Each back box is designed to give the user the maximum amount of wiring room while achieving grounding to metallic conduit.

### Metallic 30° Angle Back Box\*

Description	Amps	NPT Hub Size	Catalog Number
Back box for 30A devices.	30	3/4"	<b>MB301W</b>
	30	1"	<b>MB302W</b>

### Metallic 15° Angle Back Box\*

Description	Amps	NPT Hub Size	Catalog Number
Back box for 60A devices.	60	1"	<b>MB601W</b>
	60	1 1/4"	<b>MB602W</b>
	60	1 1/2"	<b>MB603W</b>

### Metallic Feed-Thru Back Box\*

Description	Amps	NPT Hub Size	Catalog Number
Straight feed-thru box for 30A devices.	30	3/4"	<b>MB303W</b>
	30	1"	<b>MB304W</b>
Straight feed-thru box for 60A devices.	60	1"	<b>MB604W</b>
	60	1 1/4"	<b>MB605W</b>
	60	1 1/2"	<b>MB606W</b>

### Metallic Four-Way Angle Back Box\*

Description	Amps	NPT Hub Size	Catalog Number
Four-way 15° angle box for 60 and 100A devices.	60/100	1 1/4"	<b>MB601002W</b>
	60/100	1 1/2"	<b>MB601003W</b>
	60/100	2"	<b>MB601004W</b>
Four-way 45° angle box for 200A devices.	200	2"	<b>MB2003W</b>
	200	2 1/2"	<b>MB2004W</b>
45° Angle adapter only for 200A devices.	200	-	<b>AA20045</b>

### Metallic Four-Way Feed-Thru 15° Angle Back Box\*

Description	Amps	NPT Hub Size	Catalog Number
Four-way feed-thru, 15° angle for 60 and 100A devices.	60/100	1 1/4"	<b>MB601006W</b>
	60/100	1 1/2"	<b>MB601007W</b>
	60/100	2"	<b>MB601008W</b>

Note: \*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

### Replacement Cord Clamp and Locking Ring

Description	Used on	Cord Clamp Catalog Number	Locking Ring Catalog Number
Fits all 30A plugs and connectors.	All 3, 4, 5 wire	<b>CC3430</b>	<b>ILR1**</b>
Fits all 60A plugs and connectors.	4 wire (Style 2) and all 5 wire	<b>CC60</b>	<b>ILR2**</b>
	All 3 wire and 4 wire (Style 1)	<b>CC60</b>	<b>ILR3**</b>
Fits all 100A plugs and connectors.	4 wire (Style 2) and all 5 wire	<b>CC100</b>	<b>ILR4**</b>
	All 3 wire and 4 wire (Style 1)	<b>CC100</b>	<b>ILR5**</b>
Fits all 200A plugs and connectors.	All 3, 4, 5 wire	<b>CC201</b>	-

Note: \*\*Locking Ring only.

### Liquidtight Adapters

Rating of Hubbell Pin and Sleeve Device	Liquidtight Conduit Size	Hubbell Liquidtight Adapter	Optional Kellems Liquidtight Conduit Grip
30 Amp	1/2" NPT	<b>SAB12</b>	<b>074093402</b>
	3/4" NPT	<b>SAB34</b>	<b>074093403</b>
	1" NPT	<b>SAB100</b>	<b>074093404</b>
60 Amp	1" NPT	<b>SAC100</b>	<b>074093404</b>
	1 1/4" NPT	<b>SAC125</b>	<b>074093405</b>
100 Amp	1 1/4" NPT	<b>SAD125</b>	<b>074093405</b>
	1 1/2" NPT	<b>SAD150</b>	<b>074093406</b>

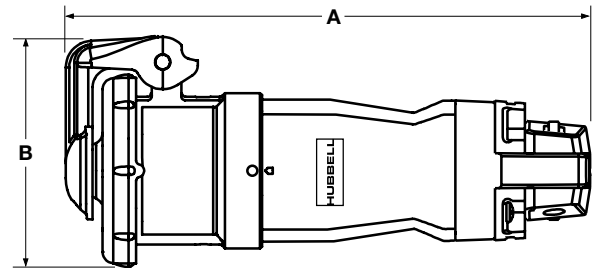
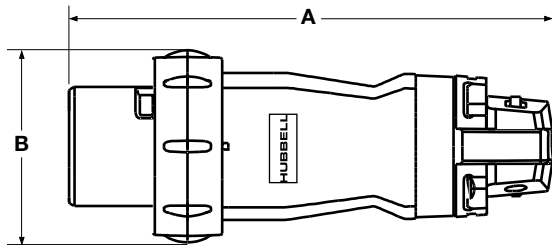
# Pin and Sleeve Devices/Mechanical Interlocks

## Plug Dimensions

Amps	Type	A		B		Cord Grip Range
		Style I	Style II	Style I	Style II	
30	330P	7.53" (191)	7.53" (191)	3.00" (76)	3.00" (76)	.375-1.20" (9.5-30.5)
	430P	7.53" (191)	7.53" (191)	3.00" (76)	3.00" (76)	.375-1.20" (9.5-30.5)
	530P	7.53" (191)		3.00" (76)		.375-1.20" (9.5-30.5)
60	360P	9.40" (239)	9.40" (239)	3.40" (86)	3.40" (86)	.500-1.45" (12.7-36.8)
	460P	9.40" (239)	9.40" (239)	3.40" (86)	3.70" (94)	.500-1.45" (12.7-36.8)
	560P	9.40" (239)		3.70" (94)		.500-1.45" (12.7-36.8)
100	3100P	10.70" (272)	10.70" (272)	3.70" (94)	3.70" (94)	.925-1.94" (27.0-49.3)
	4100P	10.70" (272)	10.90" (277)	3.70" (94)	4.00" (102)	.925-1.94" (27.0-49.3)
	5100P	10.90" (277)		4.00" (102)		.925-1.94" (27.0-49.3)
200	3200P		11.13" (282)		6.35" (161)	1.00-2.50" (25.4-63.5)
	4200P	11.13" (282)	11.13" (282)	6.35" (161)	6.70" (170)	1.00-2.50" (25.4-63.5)
	5200P	11.13" (282)		6.70" (170)		1.00-2.50" (25.4-63.5)

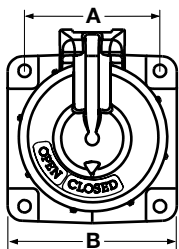
## Connector Body Dimensions

Amps	Type	A		B		Cord Grip Range
		Style I	Style II	Style I	Style II	
30	330C	8.38" (213)	8.38" (213)	3.74" (95)	3.74" (95)	.375-1.20" (9.5-30.5)
	430C	8.38" (213)	8.38" (213)	3.74" (95)	3.74" (95)	.375-1.20" (9.5-30.5)
	530C	8.38" (213)		3.74" (95)		.375-1.20" (9.5-30.5)
60	360C	9.90" (251)	9.90" (251)	3.50" (89)	3.50" (89)	.500-1.45" (12.7-36.8)
	460C	9.90" (251)	10.10" (256)	3.50" (89)	3.80" (96)	.500-1.45" (12.7-36.8)
	560C	10.10" (256)		3.80" (96)		.500-1.45" (12.7-36.8)
100	3100C	11.70" (297)	11.70" (297)	4.50" (114)	4.50" (114)	.925-1.94" (27.0-49.3)
	4100C	11.70" (297)	11.90" (302)	4.50" (114)	4.70" (119)	.925-1.94" (27.0-49.3)
	5100C	11.90" (302)		4.70" (119)		.925-1.94" (27.0-49.3)
200	3200C		13.65" (346)		7.00" (177)	1.00-2.50" (25.4-63.5)
	4200C	13.65" (346)	13.65" (346)	7.00" (177)	7.39" (187)	1.00-2.50" (25.4-63.5)
	5200C	13.65" (346)		7.39" (187)		1.00-2.50" (25.4-63.5)

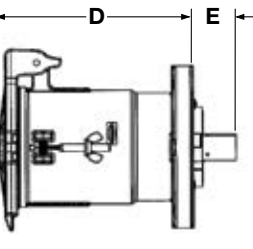
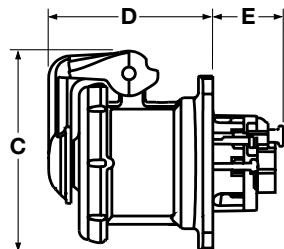


## Receptacle Dimensions

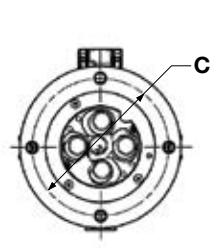
Amps	Type	A		B		C		D		E	
		Style I	Style II	Style I	Style II	Style I	Style II	Style I	Style II	Style I	Style II
30	330R	2.72" (69)	2.72" (69)	3.40" (86)	3.40" (86)	3.89" (99)	3.89" (99)	3.19" (81)	3.19" (81)	1.37" (35)	1.37" (35)
	430R	2.72" (69)	2.72" (69)	3.40" (86)	3.40" (86)	3.89" (99)	3.89" (99)	3.19" (81)	3.19" (81)	1.37" (35)	1.37" (35)
	530R	2.72" (69)		3.40" (86)		3.89" (99)		3.19" (81)		1.37" (35)	
60	360R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.66" (118)	4.42" (112)	4.42" (112)	1.54" (39)	1.54" (39)
	460R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.66" (118)	4.42" (112)	4.42" (112)	1.54" (39)	1.54" (39)
	560R	3.50" (89)		4.25" (108)		4.66" (118)		4.42" (112)		1.54" (39)	
100	3100R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.70" (119)	5.30" (135)	5.30" (135)	1.54" (39)	1.54" (39)
	4100R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.70" (119)	5.30" (135)	5.30" (135)	1.54" (39)	1.54" (39)
	5100R	3.50" (89)		4.25" (108)		4.66" (118)		5.30" (135)		1.54" (39)	
200	3200R		6.50" (165)		7.00" (177)		5.63" (143)		7.76" (197)		.99" (25)
	4200R	6.50" (165)	6.90" (170)	7.00" (177)	7.39" (187)	5.63" (143)	5.63" (143)	7.76" (197)	7.76" (197)	.99" (25)	.99" (25)
	5200R	6.90" (170)		7.39" (187)		5.63" (143)		7.76" (197)		.99" (25)	



30, 60 and 100 Amp

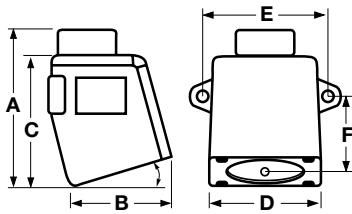


200 Amp



Dimensions in Inches (mm)

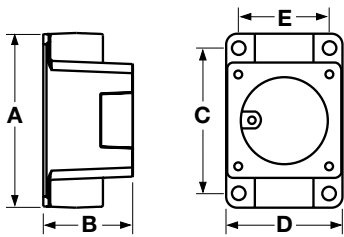
# Pin and Sleeve Devices/Mechanical Interlocks



**Metallic Angle Box**

## Metallic Angle Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
30° Angle back box for 30A devices.	¾"	4.87" (124.0)	2.94" (75.0)	4.02" (102.0)	3.40" (86.0)	4.25" (108.0)	2.12" (54.0)	<b>MB301W</b>
	1"	4.87" (124.0)	2.94" (75.0)	4.02" (102.0)	3.40" (86.0)	4.25" (108.0)	2.12" (54.0)	<b>MB302W</b>
15° Angle back box for 60A devices.	1"	–	4.80" (121.9)	–	–	5.25" (133.4)	2.69" (68.3)	<b>MB601W</b>
	1¼"	–	4.80" (121.9)	–	–	5.25" (133.4)	2.69" (68.3)	<b>MB602W</b>
	1½"	–	4.80" (121.9)	–	–	5.25" (133.4)	2.69" (68.3)	<b>MB603W</b>

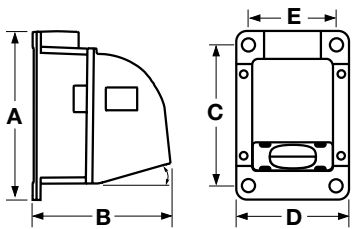


**Metallic Feed-Thru Box**

## Metallic Feed-Thru Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
Back box for 30A devices.	¾"	5.35" (136.0)	2.91" (74.0)	4.53" (115.0)	3.59" (91.0)	2.62" (67.0)	–	<b>MB303W</b>
	1"	5.35" (136.0)	2.91" (74.0)	4.53" (115.0)	3.59" (91.0)	2.62" (67.0)	–	<b>MB304W</b>
Back box for 60A devices.	1"	6.50" (165.1)	3.80" (97.0)	5.75" (146.1)	4.50" (114.3)	3.50" (88.9)	–	<b>MB604W</b>
	1¼"	6.50" (165.1)	3.80" (97.0)	5.75" (146.1)	4.50" (114.3)	3.50" (88.9)	–	<b>MB605W</b>
	1½"	6.50" (165.1)	3.80" (97.0)	5.75" (146.1)	4.50" (114.3)	3.50" (88.9)	–	<b>MB606W</b>

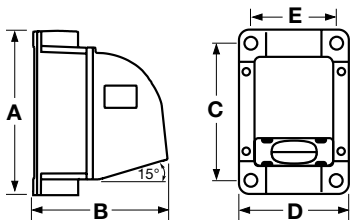
## Metallic Four-Way Angle Back Box



**Metallic Four-Way Angle Box**

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
15° Angle four-way box for 60 and 100A devices.	1¼"	7.92" (201.0)	8.52" (216.0)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	<b>MB601002W</b>
	1½"	7.92" (201.0)	8.52" (216.0)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	<b>MB601003W</b>
	2"	7.92" (201.0)	8.52" (216.0)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	<b>MB601004W</b>
45° Angle four-way box for 200A devices.	2"	10.82" (274.8)	9.86" (250.4)	9.50" (241.3)	8.17" (207.5)	6.75" (171.5)	–	<b>MB2003W</b>
	2½"	10.82" (274.8)	9.86" (250.4)	9.50" (241.3)	8.17" (207.5)	6.75" (171.5)	–	<b>MB2004W</b>
45° Angle adapter only for 200A devices.	–	8.00" (203.2)	6.00" (152.4)	7.00" (178.0)	8.00" (203.2)	7.00" (178.0)	–	<b>AA20045</b>

## Metallic Four-Way Feed-Thru 15° Angle Back Box



**Metallic Feed-Thru Angle Box**

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
Four-way Feed-thru box for 60 and 100A devices.	1¼"	7.98" (202.7)	8.55" (217.2)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	<b>MB601006W</b>
	1½"	7.98" (202.7)	8.55" (217.2)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	<b>MB601007W</b>
	2"	7.98" (202.7)	8.55" (217.2)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	<b>MB601008W</b>

Note: These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Dimensions in Inches (mm)

# Pin and Sleeve Devices/Mechanical Interlocks

## Materials (30, 60, 100, and 200 Amp)

Plug	Material
Housing	Valox® 357 (200A Aluminum)
Plug Shroud	Aluminum
Cord Clamps	Rynite® SST35 (200A Aluminum)
Clamp Nut	Nickel Plated Brass
Gland Cap	Rynite® SST35
Gland	Neoprene
O-Rings, Gaskets & Seals	Neoprene
Contact Carrier	Thermoset Polyester
Retainer	Thermoset Polyester
Sleeves	Brass (M-Series - Nickel-plated tellurium copper)
Box Terminal	Heat Treated & Zinc Plated Steel
Screws (Terminal, Assembly & Set)	Stainless Steel (300 Series)
Ground Standoff	Brass
Ground Bracket	Nickel Plated Spring Bronze
Locking Ring	Epoxy Painted Aluminum
<b>Connector Body</b>	
Housing	Valox® 357 (200 Amp Aluminum)
Connector Shroud	Epoxy Painted Aluminum
Cord Clamps	Rynite® SST35
Clamp Nut	Nickel Plated Brass
Gland Cap	Rynite® SST35 (200A Aluminum)
Gland	Neoprene
O-Rings, Gaskets & Seals	Neoprene
Contact Carrier	Thermoset Polyester
Retainer	Thermoset Polyester
Pin	Brass (M-Series - Nickel-plated tellurium copper)
Pin Spring	Beryllium Copper
Box Terminal	Heat Treated & Zinc Plated Steel
Screws (Terminal, Assembly & Set)	Stainless Steel (300 Series)
Ground Standoff	Brass
Ground Bracket	Nickel Plated Spring Bronze
Cover	Epoxy Painted Aluminum
Cover Arm	Epoxy Painted Aluminum
Spring Guide	Stainless Steel (300 Series)
Springs (Arm & Wave)	Stainless Steel (300 Series)
Spring Washer	Stainless Steel (300 Series)
Hinge Bushing	Aluminum
Rivet	Aluminum
<b>Receptacle</b>	
Housing/Flange	Epoxy Painted Aluminum
O-Rings, Gaskets & Seals	Neoprene
Contact Carrier	Thermoset Polyester
Retainer	Thermoset Polyester
Pin	Brass (M-Series - Nickel-plated tellurium copper)
Pin Spring	Beryllium Copper
Box Terminal	Heat Treated & Zinc Plated Steel
Screws (Terminal, Assembly & Set)	Stainless Steel (300 Series)
Ground Standoff	Brass
Ground Bracket	Steel
Cover	Epoxy Painted Aluminum
Cover Arm	Epoxy Painted Aluminum
Spring Guide	Stainless Steel (300 Series)
Springs (Arm & Wave)	Stainless Steel (300 Series)
Spring Washer	Stainless Steel (300 Series)
Hinge Bushing	Aluminum
Rivet	Aluminum

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.  
Rynite® is a registered trademark of E.I. DuPont Corp.

## Typical Specification

Manufacturer's ID	Hubbell HBL430PS2W
Description	Plug, Power Supply
Electrical Type	3 Pole + Earth
Max. Rating	30 Amp, 600V AC, 250V DC, 50-400Hz
Configuration	UL 1686, Watertight, C1 Configuration
Certification	UL Listed, UL Standard 1682, UL 50, and UL 1010 (plugs only), CSA Certified to CSA Spec. C22.2 No. 182.1, No. 94 and No. 159 (plugs only), UL Listed and CSA Certified Type 4X

## Performance

Electrical	
Dielectric Voltage	Withstands 3,000V AC.
Max. Working Voltage	600V AC RMS (i.e., minimum creepage and clearance distance of 6.4 millimeters, per UL 1682).
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current.
Endurance	Up to 1,000 connect and disconnect cycles at full rated current and voltage.

Mechanical	
Impact Resistance	Per CSA C22.2, No. 182.1, UL 1682.
Cord Grip Cable Retention	Per CSA C22.2, No. 182.1, UL 1682.
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49 and the harmonized <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with UL 1686 (1, 2, 3, Green).
Product Identification	Identification and ratings are permanently fastened to the device housing.

Environmental	
Hose Down & Moisture Resistance	Type 3, 4, 4X per UL 50E and CSA 22.2, No. 94.
Flammability (Enclosure)	UL 94V-0 and CSA C22.2 No. 0.17.
Operating Temperatures	Maximum Continuous 75°C; Minimum -40°C without impact -25° with impact.
Hazardous Location (30, 60 & 100A) (plug only)	Class I, Division I & II, Groups B, C & D and Class II, Division I & II, Groups F & G per UL 1010 & CSA 22.2, No. 159.
<b>Materials</b>	
Housings	Valox® 357 (200A Aluminum).
All Other Materials	Resistant to corrosion and chemical attack.

## Watertight Application Guide

Industry	Watertight.
Agriculture	Outdoor for fans, heaters, pumps, etc.
Chemical Processing	Where subject to water, corrosion.
Construction	Outdoors subject to severe weather conditions.
Entertainment	Outdoors subject to severe weather.
Food Processing	Where subject to water, corrosion.
Food Service	Areas subject to wash downs & heavy cleaning.
Light Manufacturing	Subjected to cleaning, solvents & chemicals.
Manufacturing	Where subject to water, corrosion.
Military	Outdoor construction or maintenance.



# Pin and Sleeve Devices/Mechanical Interlocks

## Features and Benefits

### Style II Insulgrip® Mechanical Interlocks

Hubbell Circuit-Lock® Pin and Sleeve Mechanical Interlocks are a revolutionary design that incorporates a disconnect switch and pin and sleeve receptacle in a compact non-metallic unit. These devices offer maximum safety by preventing users from mating or breaking a circuit under load—Hubbell's interlock mechanism detects the presence of a plug and prevents it from being removed when the switch is in the "ON" position.

It features a high visibility red handle that can be locked to meet OSHA lockout/tagout regulations, and the enclosure door can be locked to prevent unauthorized access. The rugged, corrosion-resistant Type 4X Valox® enclosure features adjustable mounting feet for flexible installation, while the receptacle's spring-loaded cover with gasket is dust tight and provides a watertight seal when turned and locked.

The patented Plug-Check™ mechanism detects the presence of the plug. It operates as a clutch to engage the handle with the switch and captures the plug. This action prevents the plug from being removed until the switch is turned OFF.

- Mechanically interlocked to prevent mating and breaking under load
- Available in both IEC and UL1686-C1 Insulgrip® styles
- IEC reverse service units available for safely connecting generators



HBL430MIFS2W



#### Housing Design

- Non-metallic enclosure meets UL 50E Type 4X (watertight), 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged thermoplastic Valox® to resist abuse, corrosion and enhance safety. All external hardware is stainless steel
- Stainless steel ¼ turn door fasteners for quick, easy access to fuses



#### Interior Design

- Compact Fused Disconnect Switch accepts **Class "J" fuses**. Fuse holders are top mounted for easy access
- The switch accepts auxiliary contacts for control circuit applications including the ON/OFF control of remote pilot lights or signal for programmable controllers



#### Safety

- High visibility red handle can be locked in the OFF position as a method of compliance with OSHA lockout requirements. Accepts up to a 5/16 inch padlock shackle
- Replaceable spring-loaded receptacle liftcover with gasket ensures dust tight rating; liftcover provides watertight seal when turned and locked



#### Contact Carrier

- Thermoset polyester contact carrier provides resistance to electrical tracking and withstands higher temperatures
- Thermoset properties provide excellent dimensional stability, low moisture absorption and superior dielectric strength



#### Enclosure Door

- Removable door for ease of wiring and installation
- Enclosure door can be locked to prevent unauthorized access. Additionally, if the switch is ON, the door cannot be opened







#### Installation

- Three molded-in conduit drill points are located on the top, bottom and back surface of enclosure. Conduit hub provided: 30A 1 in. NPT, 60A 1¼ in. NPT
- Conduit hub and adjustable mounting feet (4) are ductile to allow mounting on irregular surfaces

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.





## Style II - Fused

Rating				Fused Insulgrip® Mechanical Interlocks	
Amps	Poles and Wires	Receptacle/ Connector Configuration*	Maximum Voltage AC/DC	 Mechanical Interlock	 Mating Plug
30	3P 4W		600/250	<b>HBL430MIFS2W</b>	<b>HBL430PS2W</b>
60	3P 4W		600/250	<b>HBL460MIFS2W</b>	<b>HBL460PS2W</b>



HBL430MIFS2W

## Style II - Unfused

Rating				Unfused Insulgrip® Mechanical Interlocks	
Amps	Poles and Wires	Receptacle/ Connector Configuration*	Maximum Voltage AC/DC	 Mechanical Interlock	 Mating Plug
30	3P 4W		600/250	<b>HBL430MIS2W</b>	<b>HBL430PS2W</b>
60	3P 4W		600/250	<b>HBL460MIS2W</b>	<b>HBL460PS2W</b>

Gray Style Switch



HBLACFSNO HBL30MIFRS

Black Style Switch



ACFSNO 30MIFRS

Note: 30A – 1 inch NPT hub supplied; 60A – 1¼ inch hub supplied.

**CAUTION:** To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

\*\*While in use or with cover closed.

## Replacement Auxiliary Contacts

Description	Black Style Switch	Gray Style Switch
Auxiliary contact, normally open, A600 pilot duty, break before break.	<b>ACFSNO</b>	<b>HBLACFSNO</b>
Auxiliary contact, normally closed, A600 pilot duty, break before break.	<b>ACFSNC</b>	<b>HBLACFSNC</b>

Note: Auxiliary contacts are specific to the style switch noted and are NOT interchangeable. All new installations are shipped with gray style switch.

## Replacement Switches

Description	Black Style Switch	Gray Style Switch
For 30A fused switches.	<b>30MIFRS</b>	<b>HBL30MIFRS</b>
For 60A fused switches. Gray Style switch will retro fit Black Style switch.	–	<b>HBL60MIFRS</b>
For 30A unfused switches.	<b>30MISRS</b>	<b>HBL30MISRS</b>
For 60A unfused switches. Gray Style switch will retro fit Black Style switch.	–	<b>HBL60MISRS</b>

Note: If replacing a Black Style switch, you must use the 30MIFRS. All other applications can use the Gray Style switch.



MICPK30

## Watertight Closure Plug Kits

Description	Catalog Number
For 30A Circuit-Lock® unfused and fused Pin and Sleeve mechanical interlocks.	<b>MICPK30</b>
For 60 and 100A Circuit-Lock® unfused and fused Pin and Sleeve mechanical interlocks.	<b>MICPK60</b>



HBLRFT2

## Replacement Mounting Feet

Description	Catalog Number
Replacement mounting feet and screws for 30 and 60A fused mechanical interlocks.	<b>HBLRFT2<sup>A</sup></b>

Note: <sup>A</sup>Package of 10 feet and 10 screws.

# Pin and Sleeve Devices/Mechanical Interlocks

## Typical Specifications

Manufacturer's Identification	Hubbell HBL460MIFS2W
Description	Fused Insulgrip® Pin and Sleeve Mechanical Interlock
Electrical Type	3 Pole + Earth
Rating	60A, 250VDC/600VAC
Configuration	Per UL 1686 C1
Enclosure Type (UL 50E)	Outdoor - 4X (Watertight, Washdown) Indoor - 12 (Dust Tight, Falling Dirt)
Ingress Protection	IP66 Suitability
Certification	UL Listed for US and Canada

*Note: This device provides fused switched control of a plug connected load and includes an interlocking feature to prevent the plug from being disconnected or the door from opening while the receptacle is energized. The switch cannot be turned on until the plug is fully inserted.*

## Performance

<b>Electrical</b>	
Dielectric Voltage	Withstands 3,000VAC Min.
Max. Working Voltage	250VDC/600VAC.
Current Interrupting	Certified for current interrupting at full rated current and voltage.
Short Circuit Withstand Rating	Suitable for use on a circuit capable of delivering not more than 200,000 RMS symmetrical amperes at the voltage rating of receptacle.
Operations	Mechanical 10,000 cycles minimum.

## Materials

Part	Material
Base, Door and Handle	Valox®
Conduit Hub	Zinc, 30A – 1 in., 60A – 1¼ in. NPT
Enclosure Gasket and Shaft Seal	Neoprene
Shaft and Mounting Inserts	Brass
Ground Plate	Galvanized Steel
Enclosure Screws and Hinge Spring	Stainless Steel
Hinge Pin	Nickel-Plated Brass
Contact Carrier	Thermoset Polyester

<b>Mechanical</b>	
Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Ratings	Ratings are part of the external label and molded into the receptacle housing.
Mounting	External adjustable feet.

<b>Environmental</b>	
Moisture Resistance	Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling dirt).
Ingress Protection	IP66 Suitability.
Flammability	UL94-5VA and V-0 Classification.
Operating Temperatures	Max. Continuous +60°C; Min. Continuous -40°C w/o impact.
UV Resistance	All exposed insulating materials are UV stabilized.
Fuse Types	UL Listed Class "J". CSA Certified HRCI-J.

## Horsepower Ratings

### 30A Horsepower Ratings

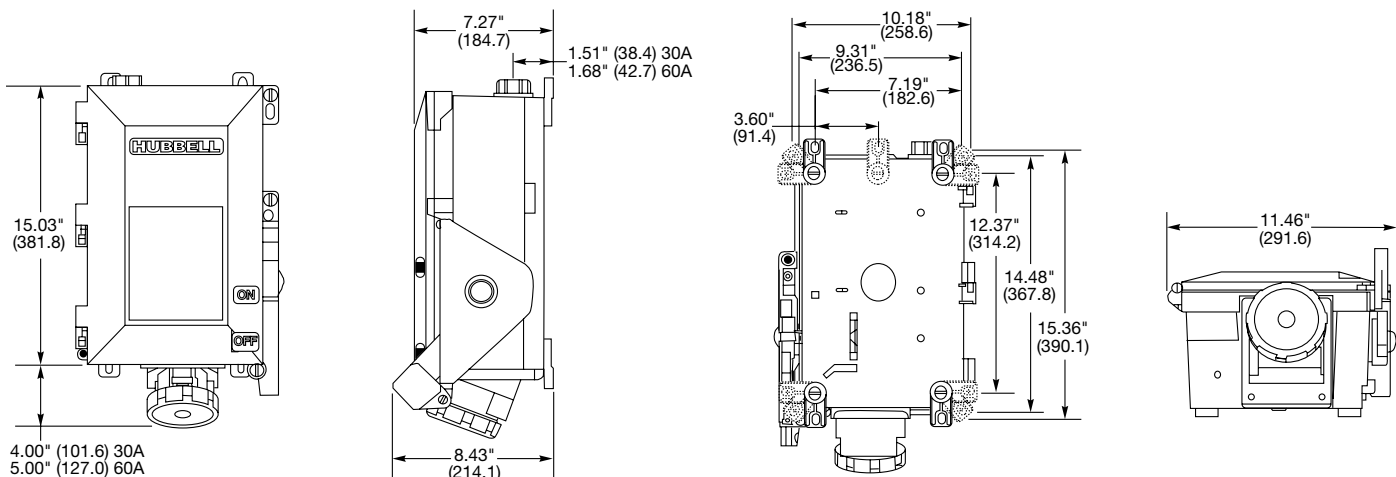
3 Phase A.C.	Standard	Maximum*
200-240V	3	7.5
480V	5	15
600V	7.5	20

### 60A Horsepower Ratings

3 Phase A.C.	Standard	Maximum*
200-240V	7.5	15
480V	15	30
600V	15	50

*Note: \*Requires time delay fuses.*

## Dimensions



*Note: 30A – 1 inch NPT hub supplied; 60A – 1¼ inch hub supplied.*

Dimensions in Inches (mm)

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# Pin and Sleeve Devices/Mechanical Interlocks

## Features and Benefits

### Hazardous Location Non-Fused Mechanical Interlocks and Plugs

Hubbell's Hazardous Location Line of Non-Fused UL 1686 Mechanical Interlock Disconnect Switches are typically used for applications with the presence of flammable gasses or vapors, ignitable dusts and fibers. They are also suitable for use in outdoor or indoor damp, wet and dirty locations or in areas where frequent wash downs, heavy rain, or water spray routinely occurs.

These switches are compact in size to reduce cost and make it easier to position on the wall or piece of equipment. The enclosures are made of copper-free aluminum and have a polyester/epoxy finish to prevent corrosion. The high visibility handles can be locked out to comply with OSHA lock out/tag out regulations.

#### VSQ Hazardous Location Ratings

Class I, Div. 1 & 2, Groups B,C,D

Class I, Zones 1 & 2, Groups IIB+H2, IIA

Class II, Div. 1 & 2, Groups F & G

Class III

NEMA 3, 4, 4X, 7 (B,C,D), 9 (F,G)



HBLVP3485



HBLVSQ3034



#### Housing Design

- Copper-free aluminum construction with electrostatically applied polyester/epoxy finish to prevent corrosion
- Compact NEMA 4X enclosure and footprint allows easy installation in tight locations
- Feed-through construction



#### Internal Design

- Auxiliary contact (late-make early-break) contact rated 10 amp, 1/3 HP at 125/250V AC can be used for operating pilot lights or starter coils
- Internal switch horsepower rated as "suitable as a motor disconnect"



#### Safety

- Lockable handle to meet OSHA Lockout/Tagout regulations
- Large visible rotary handle with ON/OFF indicator allows a quick means of disconnecting power
- Handle mechanism is chemical resistant Valox® (TM Sabic) thermoplastic



#### Plug Locking Ring

- NEMA 4X with receptacle lid turned shut or with plug locking ring tightened



#### Mechanism

- Plug and switch are interlocked. Switch cannot be turned ON without fully inserted plug. Plug cannot be removed with switch in ON position
- Plug held in place when switch is OFF for convenience. Pull operated release mechanism



#### Fully Interchangeable

- Product is UL1686 and is fully interchangeable with other UL1686 configured and listed devices

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# Pin and Sleeve Devices/Mechanical Interlocks



HBLVSQ3034



HBLVP3485



## 30 and 60 Amp Non-Fused UL1686 Mechanical Interlocks and Plugs

Amp	Circuit	Mechanical Interlock	Metallic Plug	Insulgrip Plug
30 Amp 600V AC	2W 3P	<b>HBLVSQ3023</b>	<b>HBLVP3385</b>	<b>HBL330PS2W</b>
	3W 4P	<b>HBLVSQ3034</b>	<b>HBLVP3485</b>	<b>HBL430PS2W</b>
60 AMP 600V AC	2W 3P	<b>HBLVSQ6023</b>	<b>HBLVP6385</b>	<b>HBL360PS2W</b>
	3W 4P	<b>HBLVSQ6034</b>	<b>HBLVP6485</b>	<b>HBL460PS2W</b>

Note: Early break contact comes standard with mechanical interlocks.

HBLVSQ 30 Amp models come standard with 1 inch drilled and tapped conduit openings top and bottom plus two 1 inch x 3/4 inch reducers and one 3/4 inch close-up plug for maximum flexibility. 60 amp models come with one 1 1/2 inch opening on top and bottom and one 1 1/2 inch close-up plug.

## Horsepower Ratings (VAC)\*

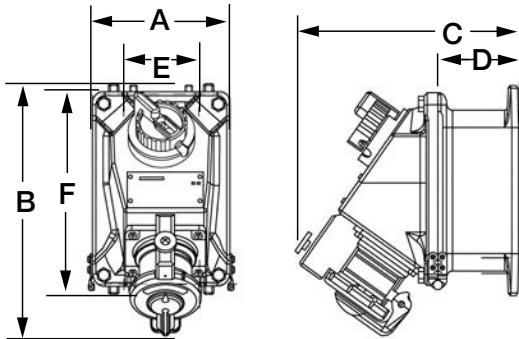


Amp	Circuit	120	240	480	600
30 Amp	1Ø	2	5	10	15
	3Ø	3	7.5	15	20
60 Amp	1Ø	–	10	15	20
	3Ø	–	10	25	30

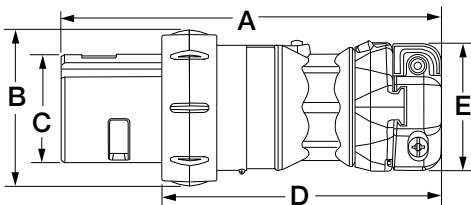
Note: \*Internal switch only.

## Dimensions

Mechanical Interlocks	A	B	C	D	E	F
30A	5.75 (146)	10.50 (267)	9.75 (248)	3.75 (95)	3.13 (79)	8.13 (206)
60A	8.13 (206)	14.16 (360)	11.28 (287)	4.03 (102)	2.50 (64)	11.38 (289)



Plugs	A	B	C	D	E
30A Both	6.69 (170)	3.00 (76)	1.88 (48)	5.38 (137)	2.53 (64)
60A, 3 Pole	8.81 (224)	3.38 (86)	2.25 (57)	6.50 (165)	3.00 (76)
60A, 4 Pole	8.81 (224)	3.69 (94)	2.53 (64)	6.50 (165)	3.00 (76)



Wire Range	30A	60A
Reg. Stranded	#10 – #6	#6 – #4
Extra Flex	#10 – #8	#6 – #4
Grip Range	.55–1.2 (14–30)	.65–1.5 (16–38)

Dimensions in Inches (mm)



# SECTION H

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Single Pole Plugs and Receptacles



Spider® II Temporary Power Boxes



Temporary Lighting and Maintenance Worklights



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# Single Pole Devices and Temporary Power

## Features and Benefits

### Series 15 and 16 - 150, 300 and 400 Ampere, 600V AC/250V DC

Hubbell Wiring Device-Kellems offers a full line of innovative, high quality, Series 15 and Series 16 single pole plugs, receptacles and accessories for the most demanding environments.

Single pole devices are the right choice for supplying temporary electrical power distribution for entertainment, theme parks, carnival equipment, concerts, movie making and numerous other applications requiring temporary power.

Single pole devices have been designed with ease of assembly and disassembly in mind, no special tools are required. A high strength non-conductive retaining screw is all that is needed to securely lock the contacts to the insulated sleeve.

- UL Enclosure Types 3R, 4X and 12 Rating Suitable for use in almost any environment



#### Housing Design

- Insulgrip® style housing for superior gripping conforms to the user's hand making it easy to connect and disconnect, even with gloves on
- Easily identifiable cable, cut off points for secure fit allows you to easily customize and cut the housing to the required/correct cable size
- Accommodates wide range of cables



#### Contacts

- Provides high contact pressure and vibration resistant connection, which helps reduce operating temperatures and extends product life
- High conductivity brass contact provides improved performance by helping to reduce operating temperatures and extends life



#### Safety

- Rounded corners reduce the possibility of catching or snagging on structures or equipment
- Non-conductive retaining screw locks contacts in place and allows for easy installation; prevents contact movement within housing
- Recessed mounting screw minimizes screwdriver slippage



#### Assembly

- Special screw thread requires fewer turns than most competitors and reduces the risk of a conductive screw being substituted
- Extra long non-conductive inner sleeve reduces force required to install housing over contacts; easier to rotate contact in body for installing retaining screw



#### Identification

- Lock symbol aids in the mating of devices and provides a clear indication that the devices are properly connected
- With lock indicator symbol making mating clear and simple; devices can lock 180° to prevent unintended disconnects



#### Installation

- Engineered body design makes installation simple with no need for additional tools and the non-metallic retaining screw helps to make operation safe for all involved
- Strip gauge molded into every plug and receptacle housing; simplifies installation and saves time

## Series 15 - 150 Ampere, 600V AC/250V DC

Enclosure Types  
3R, 4X, 12



### Plugs, Male

Description	Color	Male Plug
150 amp, thermoplastic elastomer, cable size #8 - #2 AWG.	Black	<b>HBL15MBK</b>
	White	<b>HBL15MW</b>
	Green	<b>HBL15MGN</b>
	Red	<b>HBL15MR</b>
	Blue	<b>HBL15MBL</b>
	Brown	<b>HBL15MBN</b>
	Orange	<b>HBL15MO</b>
	Yellow	<b>HBL15MY</b>
	Gray	<b>HBL15MGY</b>



### Plugs, Female

Description	Color	Female Plug
150 amp, thermoplastic elastomer, cable size #8 - #2 AWG.	Black	<b>HBL15FBK</b>
	White	<b>HBL15FW</b>
	Green	<b>HBL15FGN</b>
	Red	<b>HBL15FR</b>
	Blue	<b>HBL15FBL</b>
	Brown	<b>HBL15FBN</b>
	Orange	<b>HBL15FO</b>
	Yellow	<b>HBL15FY</b>
	Gray	<b>HBL15FGY</b>



### Receptacles, Stud Type

Description	Color	Female Receptacles	Male Receptacles
150 amp, Panel Mount, thermoplastic, cable size #8 - #2 AWG.	Black	<b>HBL15FRSBK</b>	<b>HBL15MRSBK</b>
	White	<b>HBL15FRSW</b>	<b>HBL15MRSW</b>
	Green	<b>HBL15FRSGN</b>	<b>HBL15MRSGN</b>
	Red	<b>HBL15FRSR</b>	<b>HBL15MRSR</b>
	Blue	<b>HBL15FRSBL</b>	<b>HBL15MRSBL</b>
	Brown	<b>HBL15FRSBN</b>	<b>HBL15MRSBN</b>
	Orange	<b>HBL15FRSO</b>	<b>HBL15MRSO</b>
	Yellow	<b>HBL15FRSY</b>	<b>HBL15MRSY</b>
	Gray*	—	—

Note: \*Gray is available upon request. Contact factory.



### Receptacles, Double Set Screw

Description	Color	Female Receptacles	Male Receptacles
150 amp, Panel Mount, thermoplastic, cable size #8 - #2 AWG.	Black	<b>HBL15FRBK</b>	<b>HBL15MRBK</b>
	White	<b>HBL15FRW</b>	<b>HBL15MRW</b>
	Green	<b>HBL15FRGN</b>	<b>HBL15MRGN</b>
	Red	<b>HBL15FRR</b>	<b>HBL15MRR</b>
	Blue	<b>HBL15FRBL</b>	<b>HBL15MRBL</b>
	Brown	<b>HBL15FRBN</b>	<b>HBL15MRBN</b>
	Orange	<b>HBL15FRO</b>	<b>HBL15MRO</b>
	Yellow	<b>HBL15FRY</b>	<b>HBL15MRY</b>
	Gray	<b>HBL15FRGY</b>	<b>HBL15MRGY</b>



### Protective Caps

Description	Color	Fits Female Devices	Fits Male Devices
Fits 150 amp plugs and receptacles.	Black	<b>HBL15FCAPBK</b>	<b>HBL15MCAPBK</b>
	White	<b>HBL15FCAPW</b>	<b>HBL15MCAPW</b>
	Green	<b>HBL15FCAPGN</b>	<b>HBL15MCAPGN</b>
	Red	<b>HBL15FCAPR</b>	<b>HBL15MCAPR</b>
	Blue	<b>HBL15FCAPBL</b>	<b>HBL15MCAPBL</b>
	**	—	—

Note: \*\*Additional colors are available upon request. Contact factory.



### Weather Protective Covers

Description	Color	Catalog Number
Use with stud type or double set screw receptacles.	Clear	<b>HBL15NCC</b>
	Black	<b>HBL15NCBK</b>
	White	<b>HBL15NCW</b>
	Green	<b>HBL15NCGN</b>
	Red	<b>HBL15NCR</b>
	Blue	<b>HBL15NCBL</b>
	**	

## Series 15 - 150 Ampere, 600V AC/250V DC

Enclosure Types  
3R, 4X, 12

### Tees



Color	Tapping Tee (Female-Female-Male)	Paralleling Tee (Female-Male-Male)
Black	<b>HBL15TBK</b>	<b>HBL15PTBK</b>
White	<b>HBL15TW</b>	<b>HBL15PTW</b>
Green	<b>HBL15TGN</b>	<b>HBL15PTGN</b>
Red	<b>HBL15TR</b>	<b>HBL15PTR</b>
Blue	<b>HBL15TBL</b>	<b>HBL15PTBL</b>

### Gender Reversing Devices



Color	Double Male (Male-Male)	Double Female (Female-Female)
Black	<b>HBL15DMBK*</b>	<b>HBL15DFBK*</b>
White	<b>HBL15DMW</b>	<b>HBL15DFW</b>
Green	<b>HBL15DMGN</b>	<b>HBL15DFGN</b>
Red	<b>HBL15DMR*</b>	<b>HBL15DFR*</b>
Blue	<b>HBL15DMBL*</b>	<b>HBL15DFBL*</b>

Note: \*Not UL listed, consult factory for availability.

### Replacement Bodies (25 Pack)



Color	Male Body	Female Body
Black	<b>HBL15MBBK</b>	<b>HBL15FBBK</b>
White	<b>HBL15MBW</b>	<b>HBL15FBW</b>
Green	<b>HBL15MBGN</b>	<b>HBL15FBGN</b>
Red	<b>HBL15MBR</b>	<b>HBL15FBR</b>
Blue	<b>HBL15MBBL</b>	<b>HBL15FBL</b>

Note: \*\*Additional colors are available upon request. Contact factory.

### Replacement Contacts (25 Pack)



Description	Male Pin	Female Sleeve
Contact, 150 amp	<b>HBL15RCM</b>	<b>HBL15RCF</b>

### Accessories

Description	Catalog Number
Accessory Kit, retaining screw, copper foil, terminal screws and brass wire.	<b>HBL15PK</b>
Replacement retaining screw (100 pack).	<b>HBL15RS</b>
Copper foil (100 pack).	<b>HBL15CF</b>
Brass wire (100 pack).	<b>HBL15BW</b>
Terminal screw - inline (100 pack).	<b>HBL15TS25</b>
Terminal screw - panel mount (100 pack).	<b>HBL15TS375</b>
Ferrule #2 AWG (100 pack).	<b>HBL15F2</b>
Ferrule #4 AWG (100 pack).	<b>HBL15F4</b>



**HBL15PK**



**HBL15RS**



**HBL15CF**



**HBL15BW**



**HBL15TS25**



**HBL15TS375**



**HBL15F2**  
**HBL15F4**

# Single Pole Devices and Temporary Power

## Series 15 - 150 Ampere, 600V AC/250V DC

### Specifications

Electrical	
Voltage Ratings	600V AC Maximum 250V DC Maximum
Amperage Rating	150A Maximum
Mechanical	
Terminal Accommodation	Plug: #8 AWG to #2 AWG Receptacle: #8 AWG to #2 AWG
Product ID	Ratings are a permanent part of device
Base Compound	Plug: Thermoplastic Elastomer (TPE) Receptacle: Polybutylene Terephthalate (PBT)
Contact Material	Brass
Retaining Screw Material	Nylon

### Certification / Environmental

UL and cUL Listed  
 UL Enclosure Types 3R, 4X, 12  
 UL1691 standard for single pole locking-type separable connectors  
 National Electric Code (NEC®), ANSI/NFPA 70  
 Flammability: HB per UL94 or CSA 22.2. 0.17

### Conductor Ampacity Chart (Type SC/PPC Wire)

Cable Size	Ampacity*
#8	80
#6	105
#4	140
#2	190

Note: \*90°C column NEC Table 400.5(A)(2).

### Dimensions

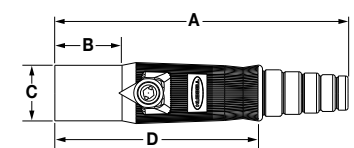
#### In Line Plugs

	A	B	C	D
Male	4.54" (115.3)	1.04" (26.4)	.86" (21.8)	3.22" (81.7)
Female	4.60" (116.8)	1.11" (28.2)	.68" (17.3)	3.28" (83.2)

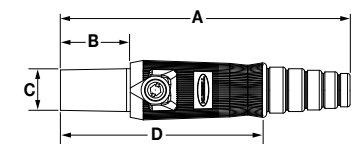
#### Weatherproof Cover

	A	B	C
Series 15	2.03" (51.5)	1.14" (29.0)	1.49" (37.9)

#### Male In Line Plug



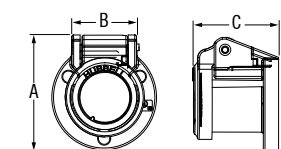
#### Female In Line Plug



#### Panel Mount Receptacles

Threaded Stud	A	B	C	D	E	F	Mounting Hole	Termination
Male	1.86" (47.2)	1.37" (34.8)	2.82" (71.6)	.86" (22.0)	.80" (20.4)	1.20" (30.5)	Through 3x Ø .20"	5/16-18 Threaded Stud
Female	1.86" (47.2)	1.37" (34.8)	2.88" (73.1)	.86" (22.0)	.80" (20.4)	1.26" (32.0)	Through 3x Ø .20"	5/16-18 Threaded Stud
Double Set Screw	A	B	C	D	E	F	Mounting Hole	Termination
Male	1.86" (47.2)	1.37" (34.8)	2.90" (73.6)	.86" (22.0)	.88" (22.2)	1.20" (30.5)	Through 3x Ø .20"	(2) 5/32 Socket Head Set Screws
Female	1.86" (47.2)	1.37" (34.8)	2.95" (74.9)	.86" (22.0)	.87" (22.2)	1.26" (32.0)	Through 3x Ø .20"	(2) 5/32 Socket Head Set Screws

#### Weatherproof Cover



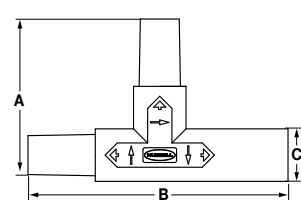
#### Tees

	A	B	C
Tapping Tee	2.67" (67.9)	4.28" (108.7)	.865" (21.9)
Paralleling Tee	2.67" (67.9)	4.22" (107.2)	.865" (21.9)

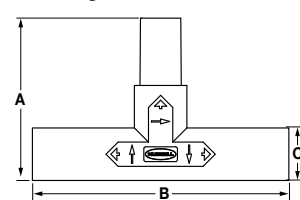
#### Gender Reversing Devices

	A	B	C
Double Male	4.22" (107.2)	.86" (21.8)	—
Double Female	4.22" (107.2)	1.05" (26.7)	.68" (17.3)

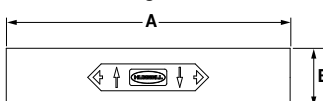
#### Tapping Tee



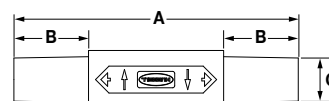
#### Paralleling Tee



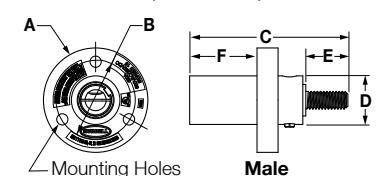
#### Gender Reversing - Double Male



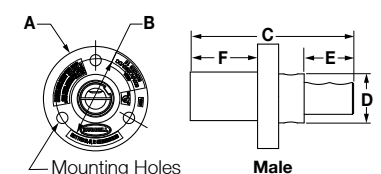
#### Gender Reversing - Double Female



#### Threaded Stud (Male Shown)



#### Double Set Screw (Male Shown)





# Single Pole Devices and Temporary Power



Series 16 - 300 and 400 Ampere, 600V AC/250V DC

Enclosure Types  
3R, 4X, 12



## Plugs

Description	Color	Male Plug	Female Plug
300 amp, thermoplastic elastomer, cable size #6 - 2/0 AWG.	Black	<b>HBL300MBK</b>	<b>HBL300FBK</b>
	White	<b>HBL300MW</b>	<b>HBL300FW</b>
	Green	<b>HBL300MGN</b>	<b>HBL300FGN</b>
	Red	<b>HBL300MR</b>	<b>HBL300FR</b>
	Blue	<b>HBL300MBL</b>	<b>HBL300FBL</b>
	Brown	<b>HBL300MBN</b>	<b>HBL300FBN</b>
	Orange	<b>HBL300MO</b>	<b>HBL300FO</b>
	Yellow	<b>HBL300MY</b>	<b>HBL300FY</b>
	Gray*	—	—

Note: \*Gray is available upon request. Contact factory.



## Plugs

Description	Color	Male Plug	Female Plug
400 amp, thermoplastic elastomer, cable size 2/0 - 4/0 AWG.	Black	<b>HBL400MBK</b>	<b>HBL400FBK</b>
	White	<b>HBL400MW</b>	<b>HBL400FW</b>
	Green	<b>HBL400MGN</b>	<b>HBL400FGN</b>
	Red	<b>HBL400MR</b>	<b>HBL400FR</b>
	Blue	<b>HBL400MBL</b>	<b>HBL400FBL</b>
	Brown	<b>HBL400MBN</b>	<b>HBL400FBN</b>
	Orange	<b>HBL400MO</b>	<b>HBL400FO</b>
	Yellow	<b>HBL400MY</b>	<b>HBL400FY</b>
	Gray	<b>HBL400MGY</b>	<b>HBL400FGY</b>

## Receptacles, Stud Type



Description	Color	Through Hole Mounting		Threaded Hole Mounting		Angled Receptacles	
		Female Receptacles	Male Receptacles	Female Receptacles	Male Receptacles	Female Receptacles	Male Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp plugs.	Black	<b>HBLFRSBK</b>	<b>HBLMRSBK</b>	<b>HBLFRSCBK</b>	<b>HBLMRSCBK</b>	<b>HBLFRASBK</b>	<b>HBLMRASBK</b>
	White	<b>HBLFRSW</b>	<b>HBLMRSW</b>	<b>HBLFRSCW</b>	<b>HBLMRSCW</b>	<b>HBLFRASW</b>	<b>HBLMRASW</b>
	Green	<b>HBLFRSGN</b>	<b>HBLMRSGN</b>	<b>HBLFRSCGN</b>	<b>HBLMRSCGN</b>	<b>HBLFRASGN</b>	<b>HBLMRASGN</b>
	Red	<b>HBLFRSR</b>	<b>HBLMRSR</b>	<b>HBLFRSCR</b>	<b>HBLMRSCR</b>	<b>HBLFRASR</b>	<b>HBLMRASR</b>
	Blue	<b>HBLFRSBL</b>	<b>HBLMRSBL</b>	<b>HBLFRSCL</b>	<b>HBLMRSCBL</b>	<b>HBLFRASBL</b>	<b>HBLMRASBL</b>
	Brown	<b>HBLFRSBN</b>	<b>HBLMRSBN</b>	<b>HBLFRSCBN</b>	<b>HBLMRSCBN</b>	<b>HBLFRASBN</b>	<b>HBLMRASBN</b>
	Orange	<b>HBLFRSO</b>	<b>HBLMRSO</b>	<b>HBLFRSCO</b>	<b>HBLMRSCO</b>	<b>HBLFRASO</b>	<b>HBLMRASO</b>
	Yellow	<b>HBLFRSY</b>	<b>HBLMRSY</b>	<b>HBLFRSCY</b>	<b>HBLMRSCY</b>	<b>HBLFRASY</b>	<b>HBLMRASY</b>

## Receptacles, Double Set Screw



Description	Color	Female Receptacles	Male Receptacles
400 amp, Panel Mount, thermoplastic elastomer, cable size #4 - 4/0 AWG, mates with 300 and 400 amp plugs.	Black	<b>HBLFRBK</b>	<b>HBLMRBK</b>
	White	<b>HBLFRW</b>	<b>HBLMRW</b>
	Green	<b>HBLFRGN</b>	<b>HBLMRGN</b>
	Red	<b>HBLFRR</b>	<b>HBLMRR</b>
	Blue	<b>HBLFRBL</b>	<b>HBLMRBL</b>
	Brown	<b>HBLFRBN</b>	<b>HBLMRBN</b>
	Orange	<b>HBLFRO</b>	<b>HBLMRO</b>
	Yellow	<b>HBLFRY</b>	<b>HBLMRY</b>
Gray	<b>HBLFRGY</b>	<b>HBLMRGY</b>	

## Angled Receptacles, Double Set Screw



Description	Color	Female Receptacles	Male Receptacles
400 amp, Panel Mount, thermoplastic elastomer, cable size #4 - 4/0 AWG, mates with 300 and 400 amp plugs.	Black	<b>HBLFRABK</b>	<b>HBLMRABK</b>
	White	<b>HBLFRAW</b>	<b>HBLMRAW</b>
	Green	<b>HBLFRAGN</b>	<b>HBLMRAGN</b>
	Red	<b>HBLFRAR</b>	<b>HBLMRAR</b>
	Blue	<b>HBLFRABL</b>	<b>HBLMRABL</b>
	Brown	<b>HBLFRABN</b>	<b>HBLMRABN</b>
	Orange	<b>HBLFRAO</b>	<b>HBLMRAO</b>
	Yellow	<b>HBLFRAY</b>	<b>HBLMRAY</b>
	Gray*	—	—

Note: \*Gray is available upon request. Contact factory.

# Single Pole Devices and Temporary Power



Series 16 - 300 and 400 Ampere, 600V AC/250V DC

Enclosure Types  
3R, 4X, 12



## Receptacles, Bus Bar Mount

Description	Color	Female Receptacles	Male Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp plugs.	Black	<b>HBLFRBBK</b>	<b>HBLMRBBK</b>
	White	<b>HBLFRBW</b>	<b>HBLMRBW</b>
	Green	<b>HBLFRBGN</b>	<b>HBLMRBGN</b>
	Red	<b>HBLFRBR</b>	<b>HBLMRBR</b>
	Blue	<b>HBLFRBBL</b>	<b>HBLMRBBL</b>
	Brown	<b>HBLFRBBN</b>	<b>HBLMRBBN</b>
	Orange	<b>HBLFRBO</b>	<b>HBLMRBO</b>
	Yellow	<b>HBLFRBY</b>	<b>HBLMRBY</b>



## Angled Receptacles, Bus Bar Mount

Description	Color	Female Receptacles	Male Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp plugs.	Black	<b>HBLFRABK</b>	<b>HBLMRABK</b>
	White	<b>HBLFRABW</b>	<b>HBLMRABW</b>
	Green	<b>HBLFRABGN</b>	<b>HBLMRABGN</b>
	Red	<b>HBLFRABR</b>	<b>HBLMRABR</b>
	Blue	<b>HBLFRABBL</b>	<b>HBLMRABBL</b>
	Brown	<b>HBLFRABN</b>	<b>HBLMRABN</b>
	Orange	<b>HBLFRABO</b>	<b>HBLMRABO</b>
	Yellow	<b>HBLFRABY</b>	<b>HBLMRABY</b>



## Terminals, Offset Straight Style

Description	Color	Female Receptacles	Male Receptacles
400 amp Terminal, thermoplastic elastomer, mates with 300 and 400 amp plugs.	Black	<b>HBLFOSBK</b>	<b>HBLMOSBK</b>
	White	<b>HBLFOSW</b>	<b>HBLMOSW</b>
	Green	<b>HBLFOSGN</b>	<b>HBLMOSGN</b>
	Red	<b>HBLFOSR</b>	<b>HBLMOSR</b>
	Blue	<b>HBLFOSBL</b>	<b>HBLMOSBL</b>
	Brown	<b>HBLFOSBN</b>	<b>HBLMOSBN</b>
	Orange	<b>HBLFOSO</b>	<b>HBLMOSO</b>
	Yellow	<b>HBLFOSY</b>	<b>HBLMOSY</b>

Note: Terminals are UL Type 1 only.



## Angled Terminals, Offset Straight Style

Description	Color	Female Receptacles	Male Receptacles
400 amp Terminal, thermoplastic elastomer, mates with 300 and 400 amp plugs.	Black	<b>HBLFOABK</b>	<b>HBLMOABK</b>
	White	<b>HBLFOAW</b>	<b>HBLMOAW</b>
	Green	<b>HBLFOAGN</b>	<b>HBLMOAGN</b>
	Red	<b>HBLFOAR</b>	<b>HBLMOAR</b>
	Blue	<b>HBLFOABL</b>	<b>HBLMOABL</b>
	Brown	<b>HBLFOABN</b>	<b>HBLMOABN</b>
	Orange	<b>HBLFOAO</b>	<b>HBLMOAO</b>
	Yellow	<b>HBLFOAY</b>	<b>HBLMOAY</b>

Note: Angled terminals are UL Type 1 only.



## Protective Caps

Color	Fits Female Devices	Fits Male Devices
Black	<b>HBLFCAPBK</b>	<b>HBLMCAPBK</b>
White	<b>HBLFCAPW</b>	<b>HBLMCAPW</b>
Green	<b>HBLFCAPGN</b>	<b>HBLMCAPGN</b>
Red	<b>HBLFCAPR</b>	<b>HBLMCAPR</b>
Blue	<b>HBLFCAPBL</b>	<b>HBLMCAPBL</b>
Brown	<b>HBLFCAPBN</b>	<b>HBLMCAPBN</b>
Orange	<b>HBLFCAPO</b>	<b>HBLMCAPO</b>
Yellow	<b>HBLFCAPY</b>	<b>HBLMCAPY</b>



## Weather Protective Lift Covers

Color	Catalog Number	All One Color Caps and Bodies
Clear	—	<b>HBLNCC</b>
Black	<b>HBLNCBK</b>	<b>HBLNCABK</b>
White	<b>HBLNCW</b>	<b>HBLNCAW</b>
Green	<b>HBLNCGN</b>	<b>HBLNCAGN</b>
Red	<b>HBLNCR</b>	<b>HBLNCAR</b>
Blue	<b>HBLNCBL</b>	<b>HBLNCABL</b>
Brown	<b>HBLNCBN</b>	<b>HBLNCABN</b>
Orange	<b>HBLNCO</b>	<b>HBLNCAO</b>
Yellow	<b>HBLNCY</b>	<b>HBLNCAY</b>

Series 16 - 300 and 400 Ampere, 600V AC/250V DC

Enclosure Types  
3R, 4X, 12



## Tees and 3-Fers

Color	Tapping Tee (Female-Female-Male)	Paralleling Tee (Female-Male-Male)	3-Fer (Male-Female- Female-Female)	3-Fer (Female-Male- Male-Male)	Soft 3-Fer (Male-Female- Female-Female)	Soft 3-Fer (Female- Male-Male-Male)
Black	<b>HBLTBK</b>	<b>HBLPTBK</b>	<b>HBLM3FBK</b>	<b>HBLF3MBK</b>	<b>HBLM3FSBK</b>	—
White	<b>HBLTW</b>	<b>HBLPTW</b>	<b>HBLM3FW</b>	<b>HBLF3MW</b>	—	—
Green	<b>HBLTGN</b>	<b>HBLPTGN</b>	<b>HBLM3FGN</b>	<b>HBLF3MGN</b>	—	<b>HBLF3MSGN</b>
Red	<b>HBLTR</b>	<b>HBLPTR</b>	<b>HBLM3FR</b>	<b>HBLF3MR</b>	—	—
Blue	<b>HBLTBL</b>	<b>HBLPTBL</b>	<b>HBLM3FBL</b>	<b>HBLF3MBL</b>	—	—
Brown	<b>HBLTBN</b>	<b>HBLPTBN</b>	<b>HBLM3FBN</b>	<b>HBLF3MBN</b>	—	—
Orange	<b>HBLTO</b>	<b>HBLPTO</b>	<b>HBLM3FO</b>	<b>HBLF3MO</b>	—	—
Yellow	<b>HBLTY</b>	<b>HBLPTY</b>	<b>HBLM3FY</b>	<b>HBLF3MY</b>	—	—

## Gender Reversing Devices



Color	Double Male (Male-Male)	Double Female (Female-Female)
Black	<b>HBLDMBK</b>	<b>HBLDFBK</b>
White	<b>HBLDMW</b>	<b>HBLDFW</b>
Green	<b>HBLDMGN</b>	<b>HBLDFGN</b>
Red	<b>HBLDMR</b>	<b>HBLDFR</b>
Blue	<b>HBLDMBL</b>	<b>HBLDFBL</b>
Brown	<b>HBLDMBN</b>	<b>HBLDFBN</b>
Orange	<b>HBLDMO</b>	<b>HBLDFO</b>
Yellow	<b>HBLDMY</b>	<b>HBLDFY</b>

## Distribution Block

Color	(1-Male, 6-Females)
Black	<b>HBL7DBBK</b>
White	<b>HBL7DBW</b>
Green	<b>HBL7DBGN</b>
Red	<b>HBL7DBR</b>
Blue	<b>HBL7DBBL</b>
Brown	<b>HBL7DBBN</b>
Orange	<b>HBL7DBO</b>
Yellow	<b>HBL7DBY</b>



## Replacement Bodies (10 Pack)



Color	Male Body	Female Body
Black	<b>HBLMBBK</b>	<b>HBLFBBK</b>
White	<b>HBLMBW</b>	<b>HBLFBW</b>
Green	<b>HBLMBGN</b>	<b>HBLFBGN</b>
Red	<b>HBLMBR</b>	<b>HBLFBR</b>
Blue	<b>HBLMBBL</b>	<b>HBLFBBL</b>
Brown	<b>HBLMBBN</b>	<b>HBLFBBN</b>
Orange	<b>HBLMBO</b>	<b>HBLFBO</b>
Yellow	<b>HBLMBY</b>	<b>HBLFBY</b>

## Replacement Contacts (20 Pack)



Description	Male Pin	Female Sleeve
Contact, 300 amp	<b>HBL300RCM</b>	<b>HBL300RCF</b>
Contact, 400 amp	<b>HBL400RCM</b>	<b>HBL400RCF</b>

## Snap Back Covers (3R Only)



Color	Through Hole Mounting	Threaded Mounting Holes
Black	<b>HBLSCBK</b>	<b>HBLSCCBK</b>
White	<b>HBLSCW</b>	<b>HBLSCCW</b>
Green	<b>HBLSCGN</b>	<b>HBLSCCGN</b>
Red	<b>HBLSCR</b>	<b>HBLSCCR</b>
Blue	<b>HBLSCBL</b>	<b>HBLSCCBL</b>
Brown	<b>HBLSCBN</b>	<b>HBLSCCBN</b>
Orange	<b>HBLSCO</b>	<b>HBLSCCO</b>
Yellow	<b>HBLSCY</b>	<b>HBLSCCY</b>

## Accessories

Description	Catalog Number
Accessory Kit, retaining screw, copper foil, terminal screws and brass wire.	<b>HBLPK</b>
Replacement retaining screw (500 pack).	<b>HBLRS</b>
Copper foil (500 pack).	<b>HBLCF</b>
Brass wire (500 pack).	<b>HBLBW</b>
Terminal screw - inline (500 pack).	<b>HBLTS</b>
Terminal screw - panel mount (500 pack).	<b>HBLTSR</b>



# Single Pole Devices and Temporary Power

## Series 16 - 300 and 400 Ampere, 600V AC/250V DC

### Specifications

Electrical	Series 16	
Voltage Ratings	600V AC Maximum 250V DC Maximum	
Amperage Rating	400A Maximum	
Mechanical	300A	400A
Terminal Accommodation	Plug: #6 to 2/0 AWG	Plug: 2/0 to 4/0 AWG Recept.: #4 to 4/0 AWG
Product ID	Ratings are a permanent part of device	
Base Compound	Thermoplastic Elastomer (TPE)	
Contact Material	Brass	
Retaining Screw Material	Nylon	

### Certification / Environmental

UL and cUL Listed  
 UL Enclosure Types 3R, 4X, 12  
 UL1691 standard for single pole locking-type separable connectors  
 National Electric Code (NEC), ANSI/NFPA 70  
 Flammability: HB per UL94 or CSA 22.2. 0.17

### Conductor Ampacity Chart (Type SC/PPC Wire)

Cable Size	Ampacity*	Cable Size	Ampacity*
#6	105	2/0	300
#4	140	4/0	405
#2	190		

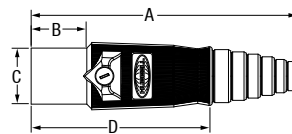
Note: \*90°C column NEC Table 400.5(A)(2).

### Dimensions

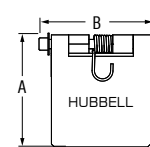
#### In Line Plugs

Description	A	B	C	D
Male	7.01" (178.0)	1.38" (35.1)	1.48" (37.6)	4.78" (121.4)
Female	7.10" (180.5)	1.44" (36.6)	1.06" (27.0)	4.90" (121.3)

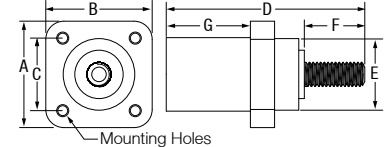
#### In Line Plug (Male Shown)



#### Snap Back Cover



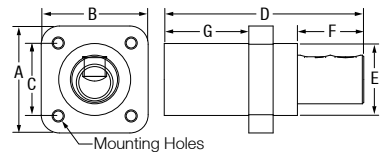
#### Threaded Stud (Male Shown)



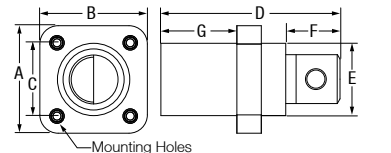
#### Panel Mount Receptacles

Threaded Stud	A	B	C	D	E	F	G	Mounting Hole	Termination
Male & Female with through hole mounting	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	4.10" (104.3)	1.48" (47.4)	1.25" (31.7)	1.74" (44.2)	Through 4x Ø .20"	1/2-13 UNC-2A Threaded Stud
Male & Female with threaded mounting holes	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	3.67" (93.2)	1.48" (47.4)	1.11" (28.2)	1.55" (39.4)	Threaded 4x #10-32	1/2-13 UNC-2A Threaded Stud
Double Set Screw	A	B	C	D	E	F	G	Mounting Hole	Termination
Male & Female with threaded mounting holes	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	4.10" (104.3)	1.48" (47.4)	1.36" (34.5)	1.74" (44.2)	Threaded 4x #10-32	(2) 7/32 Socket Head Set Screws
Busbar Type	A	B	C	D	E	F	G	Mounting Hole	Termination
Male & Female with threaded mounting holes	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	3.57" (90.7)	1.48" (37.6)	1.01" (25.7)	1.55" (39.4)	Threaded 4x #10-32	(1) 5/16-18 UNC-2B Threaded Hole
Offset Terminals	A	B	C	D	E	F	Mounting Hole	Termination	
Male terminal straight style	Ø1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.89" (98.8)	1.75" (44.5)	2.14" (54.4)	Through .50" (12.7)		—
Female terminal straight style	Ø1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.68" (93.3)	1.75" (44.5)	1.93" (48.9)	Through .50" (12.7)		—
Male terminal angled style	Ø1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.98" (101.1)	2.06" (52.2)	2.14" (54.4)	Through .50" (12.7)		—
Female terminal angled style	Ø1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.76" (95.6)	2.06" (52.2)	1.93" (48.9)	Through .50" (12.7)		—

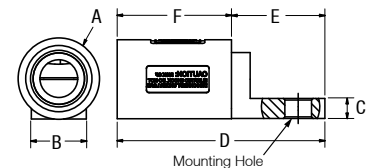
#### Double Set Screw (Male Shown)



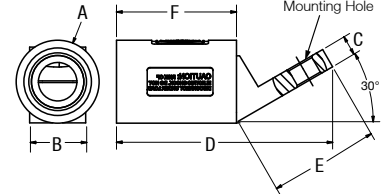
#### Busbar Type (Male Shown)



#### Offset Terminals (Male Shown) Straight Style



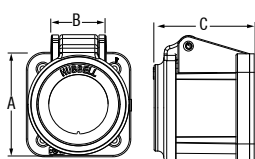
#### Angled Style



#### Covers

Description	A	B	C
Weatherproof Cover	2.20" (55.88)	1.16" (29.44)	2.03" (51.5)
Snap Back Cover to be used with receptacles	2.26" (57.4)	2.37" (60.2)	—

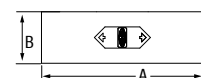
#### Weatherproof Cover



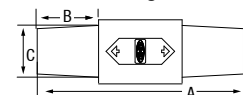
#### Gender Reversing Devices

Description	A	B	C
Double Male	4.65" (118.1)	1.48" (37.6)	—
Double Female	4.84" (122.9)	1.44" (36.6)	1.06" (27.0)

#### Gender Reversing - Double Male



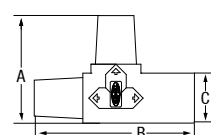
#### Gender Reversing - Double Female



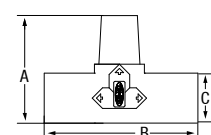
#### Tees and 3-Fers

Description	A	B	C
Tapping Tee	3.18" (80.8)	4.74" (120.4)	1.48" (37.6)
Paralleling Tee	3.18" (80.8)	4.65" (118.1)	1.48" (37.6)
3-Fer	5.88" (149.3)	5.78" (146.9)	1.48" (37.6)

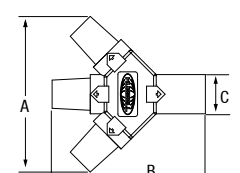
#### Tapping Tee



#### Paralleling Tee



#### 3-Fer



NEC® is a registered trademark of the National Fire Protection Association (NFPA).

Dimensions in Inches (mm)

# Single Pole Devices and Temporary Power



## Series 18 - 300 and 400 Ampere, 600V AC/250V DC

Enclosure Types  
3R, 4X, 12

- Enclosure Types 3R, 4X, 12
- Non-metallic safety retaining screw
- Easy to grip body design
- Accepts #2 to 4/0 AWG wire
- Replacement bodies available
- UL and cULus listed



### 300A Plugs

Description	Color	Male Plug	Female Plug
Thermoplastic elastomer, cable size #2 - 2/0 AWG.	Black	<b>HBL18300MBK</b>	<b>HBL18300FBK</b>
	White	<b>HBL18300MW</b>	<b>HBL18300FW</b>
	Green	<b>HBL18300MGN</b>	<b>HBL18300FGN</b>
	Red	<b>HBL18300MR</b>	<b>HBL18300FR</b>
	Blue	<b>HBL18300MBL</b>	<b>HBL18300FBL</b>
	Brown	<b>HBL18300MBN</b>	<b>HBL18300FBN</b>
	Orange	<b>HBL18300MO</b>	<b>HBL18300FO</b>
	Yellow	<b>HBL18300MY</b>	<b>HBL18300FY</b>



### 400A Plugs

Description	Color	Male Plug	Female Plug
Thermoplastic elastomer, cable size 3/0 - 4/0 AWG.	Black	<b>HBL18400MBK</b>	<b>HBL18400FBK</b>
	White	<b>HBL18400MW</b>	<b>HBL18400FW</b>
	Green	<b>HBL18400MGN</b>	<b>HBL18400FGN</b>
	Red	<b>HBL18400MR</b>	<b>HBL18400FR</b>
	Blue	<b>HBL18400MBL</b>	<b>HBL18400FBL</b>
	Brown	<b>HBL18400MBN</b>	<b>HBL18400FBN</b>
	Orange	<b>HBL18400MO</b>	<b>HBL18400FO</b>
	Yellow	<b>HBL18400MY</b>	<b>HBL18400FY</b>



### Replacement Bodies (10 Pack)

Description	Color	Male Plug	Female Plug
Thermoplastic elastomer.	Black	<b>HBL18MBBK</b>	<b>HBL18FBBK</b>
	White	<b>HBL18MBW</b>	<b>HBL18FBW</b>
	Green	<b>HBL18MBGN</b>	<b>HBL18FBGN</b>
	Red	<b>HBL18MBR</b>	<b>HBL18FBR</b>
	Blue	<b>HBL18MBBL</b>	<b>HBL18FBBL</b>
	Brown	<b>HBL18MBBN</b>	<b>HBL18FBBN</b>
	Orange	<b>HBL18MBO</b>	<b>HBL18FBO</b>
	Yellow	<b>HBL18MBY</b>	<b>HBL18FBY</b>



### Accessories

Description	Catalog Number
Series 18, replacement retaining screw (500 pack).	<b>HBL18RS</b>



### Specifications

Electrical	Series 18	
Voltage Ratings	600V AC Maximum 250V DC Maximum	
Amperage Rating	400A Maximum	
Mechanical	300A	400A
Terminal Accommodation	Plug: #2 to 2/0 AWG	Plug: 3/0 to 4/0 AWG
Product ID	Ratings are a permanent part of device	
Base Compound	Thermoplastic Elastomer (TPE)	
Contact Material	Brass	
Retaining Screw Material	Nylon	

### Certification / Environmental

Series 18
UL and cULus listed
UL Enclosure Types 3R, 4X, 12
UL 1691 standard for single pole locking-type separable connectors
National Electric Code (NEC), ANSI/NFPA 70
Flammability: HB per UL94 or CSA 22.2. 0.17

### Conductor Ampacity Chart (Type SC/PPC Wire)

Cable Size	Ampacity*
#2	190
2/0	300
3/0	350
4/0	405

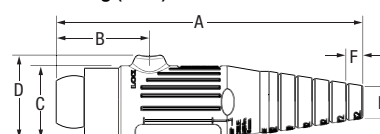
Note: \*90°C column NEC Table 400.5(A)(2).

### Dimensions

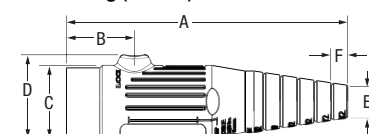
#### In Line Plugs

Description	A	B	C	D	E	F
Male	6.77" (172.0)	2.06" (52.3)	1.61" (40.9)	1.85" (47.0)	.73" (18.5)	.38" (TYP) (9.7)
Female	6.21" (157.7)	1.50" (38.1)	1.61" (40.9)	1.85" (47.0)	.73" (18.5)	.38" (TYP) (9.7)

In Line Plug (Male)



In Line Plug (Female)



Dimensions in Inches (mm)



# Single Pole Devices and Temporary Power

## Features and Benefits

### Spider® II Temporary Power Boxes

Hubbell's Spider® II temporary power distribution system sets the safety and performance standard for temporary power needs. Construction sites and outdoor events place more demands on electrical power than ever before. Hubbell's Spider box steps up to the challenge by offering advanced electrical and safety features. The Spider II box incorporates the most advanced ground fault module technology available in the industry today, ensuring safe and reliable distribution of electrical power for a wide variety of temporary power applications.

Breadth of line and innovation, Hubbell manufactures a variety of Spider® II Boxes and temporary power products for both indoor and outdoor power and lighting applications. Hubbell's Spider products incorporate the most innovative wiring devices in the Hubbell Safety-Shroud® Twist-Lock® system. The shrouded Twist-Lock design extends the life of the plug by protecting the blades from abuse and, more importantly, the shroud protects the user from arcing.



SBSB1A



#### Housing Design

- Individual GFCI modules
- Gasketed latching receptacle lift covers
- Replaceable legs



#### Assembly

- Compact electronic supervisory circuit
- Detailed wiring diagram
- Six 20 amp straight blade or Twist-Lock® watertight receptacles, individually GFCI protected



#### Safety

- Standard stab termination circuit breakers with gasketed lift cover
- All Pin and Sleeve, Twist-Lock® and straight blade receptacles on each Spider box are protected when not in use by a gasketed, spring loaded flip lid



#### Receptacles

- Available with flush 50 amp Twist-Lock® inlet or 60 amp IEC reversed service Pin and Sleeve receptacle



#### Environmental Protection

- Spider® II boxes have earned a Type 3R metallic enclosure rating and heavy duty, abuse resistant legs for outdoor rainproof applications
- Provides UL Type 4X rating when the receptacles are used with Watertight Safety-Shroud® Twist-Lock® plugs



#### Certifications

- Hubbell's Spider® II Boxes meet NEC® requirements for personal protection against electrical shock on job sites and are listed to the latest UL1640 standard for portable power distribution equipment

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

# Single Pole Devices and Temporary Power

## 50A and 60A Spider® II Boxes



50A Spider® II



60A Spider® II



60A Class "L" Spider® II

### Spider® II Temporary Power Boxes

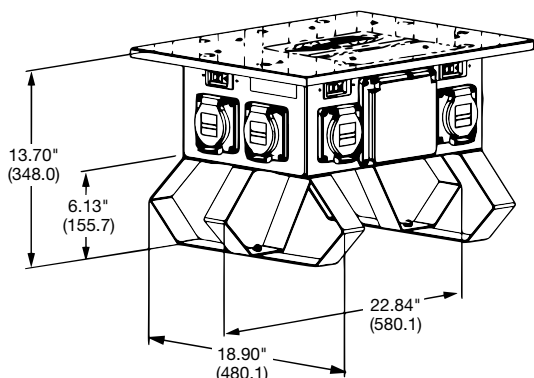
Rating	Type	Qty	Receptacle Ratings	Receptacle Components	Protection		Catalog Number
					Overload	GFI	
30A, 120/240V AC (Maximum)	Straight Blade	7	20A, 125V	HBL53R61	Yes	Yes	<b>SDSB1A</b>
	Twist-Lock® (inlet)	1	30A, 120/240V	HBL2715SWR	No	No	
	Twist-Lock® (outlet)	1	30A, 120/240V	HBL2710	No	No	
50A, 120/240V AC (Maximum)	Straight Blade	7	20A, 125V	HBL53R61	Yes	Yes	<b>SBSB1A</b>
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
50A, 120/240V AC (Maximum)	Straight Blade	6	20A, 125V	HBL53R61	Yes	Yes	<b>SBSB2</b>
	Twist-Lock®	1	30A, 250V	HBL2620SW	Yes	Yes	
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
50A, 120/240V AC (Maximum)	Twist-Lock®	7	20A, 125V	HBL2310SW	Yes	Yes	<b>SBTL1A</b>
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
50A, 120/240V AC (Maximum)	Twist-Lock®	6	20A, 125V	HBL2310SW	Yes	Yes	<b>SBTL2</b>
	Twist-Lock®	1	30A, 250V	HBL2620SW	Yes	Yes	
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
60A, 3Ø 120/208V AC (Maximum)	Straight Blade	6	20A, 125V	HBL53R61	Yes	Yes	<b>SCSB0*</b>
	Pin and Sleeve (inlet)	1	60A, 3ØY 120/208V	HBL560B9R	No	No	
	Pin and Sleeve (outlet)	1	60A, 3ØY 120/208V	HBL560R9W	No	No	
60A, 3Ø 120/208V AC (Maximum)	Twist-Lock®	6	20A, 125V	HBL2310SW	Yes	Yes	<b>SCTL0*</b>
	Pin and Sleeve (inlet)	1	60A, 3ØY 120/208V	HBL560B9R	No	No	
	Pin and Sleeve (outlet)	1	60A, 3ØY 120/208V	HBL560R9W	No	No	

### Class "L" Spider® II Temporary Power Boxes

Rating	Type	Qty	Receptacle Ratings	Receptacle Components	Protection		Catalog Number
					Overload	GFI	
60A, 3Ø 120/208V AC (Maximum)	Straight Blade	6	20A, 125V	HBL53R61	Yes	Yes**	<b>SCSB0M2</b>
	Class "L" (inlet)	1	60A, 3ØY, 120/208V	—	No	No	
	Class "L" (outlet)	1	60A, 3ØY, 120/208V	—	No	No	
60A, 3Ø 120/208V AC (Maximum)	Twist-Lock®	6	20A, 125V	HBL2310SW	Yes	Yes**	<b>SCTL0M2</b>
	Class "L" (inlet)	1	60A, 3ØY, 120/208V	—	No	No	
	Class "L" (outlet)	1	60A, 3ØY, 120/208V	—	No	No	

Note: \*60A units are UL and cUL only.  
\*\*GFCI protection on 4 devices only.

### Dimensions



Dimensions in Inches (mm)

### Specifications

#### Spider® II

Listing/Certification	UL1640 cUL and CSA, UL943
Environment	Indoor and outdoor wet and dry locations
Enclosure Type	3R, rainproof, suitable for use in damp locations
Code Compliance	NEC®, ANSI/NFPA 70

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

# Single Pole Devices and Temporary Power

## Features and Benefits

### Temporary Power Accessories

Hubbell's SR50 is comprised of a pre-wired 50A receptacle, mounted in a fully non-metallic watertight FD wall box.

This weather resistant, UL listed, assembly provides significant labor savings for the contractor, because it's pre-wired with a 50A Twist-Lock® receptacle, installation time is significantly reduced. The 4 hole mounting pattern of the new FD box also provides added security for the device.



### Cable Sets and Receptacles

Description	Catalog Number
50A pre-wired wall mounted receptacle, with 2 ft. wire leads.	<b>SR50</b>
50A cord set - 50 ft. cable (input/output).	<b>SCB50</b>
50A cord set - 100 ft. cable (input/output).	<b>SCB100</b>
60A cord set - 6 ft. cable (input/output).	<b>SCC06</b>
60A cord set - 50 ft. cable (input/output).	<b>SCC50</b>
60A, 3Ø 120/208V Pin and Sleeve wall mounted receptacle.	<b>HBL560R9W</b>
1¼" hub 15 deg. non-metallic angle back box for 60A receptacle.	<b>BB601W</b>
1½" hub 15 deg. metallic 4-way angle back box for 60A receptacle.	<b>FW60100</b>

Note: Consult factory for alternate cable lengths.



SR50

### Replacement Parts

Description	Catalog Number
20A, 125V straight blade receptacle.	<b>HBL53R61</b>
20A, 125V Safety-Shroud Twist-Lock® receptacle.	<b>HBL2310SW</b>
30A, 250V Safety-Shroud Twist-Lock® receptacle.	<b>HBL2620SW</b>
30A, 125/250V Reverse Service Safety-Shroud connector.	<b>HBL2713SR</b>
30A, 125/250V Reverse Service inlet.	<b>HBL2715SWR</b>
50A, 125/250V Twist-Lock® receptacle.	<b>CS6369</b>
50A, 125/250V Twist-Lock® inlet.	<b>HBL6375S</b>
60A, 3Ø 120/208V Pin and Sleeve reversed service receptacle (inlet).	<b>HBL560B9R</b>
60A, 3Ø 120/208V Pin and Sleeve receptacle (outlet).	<b>HBL560R9W</b>
60A, 3Ø 120/208V Pin and Sleeve reversed service plug (female).	<b>HBL560P9WR</b>
60A, 3Ø 120/208V Pin and Sleeve plug (male).	<b>HBL560P9W</b>
GFCI module.	<b>GFM20</b>
50A Spider supervisory kit.	<b>SSK</b>
60A Spider supervisory kit.	<b>SSK60</b>
Spider circuit breaker cover.	<b>SCBC</b>
Spider leg kit.	<b>SLK</b>
Spider leg kit, green.	<b>SLKG</b>
50A receptacle cover plate.	<b>HBL77CM74WO</b>



SCB50



HBL560R9W



HBL2310SW



SCBC



GFM20



SSK



HBL77CM74WO



CS6369



HBL2713SR



# Single Pole Devices and Temporary Power

## Features and Benefits

### Temporary Power Distribution Boxes and Temporary Power Cables

- Durable hi-visibility yellow powder coated steel construction
- Hubbell 50 amp Twist-Lock® receptacle and inlet
- Six 20 amp straight blade or Twist-Lock® covered receptacles
- Individual GFCI modules
- NEMA 3R enclosure
- Save space in the warehouse and on the truck with nesting leg design



TPDL – Twist-Lock®  
TPDS – Straight Blade



TPC50 – 50' Cable  
TPC100 – 100' Cable



HBLCGFM20

### Temporary Power Distribution Boxes

Rating	Type	Qty	Receptacle Rating	Protection		Catalog Number
				Overload	GFI	
50A, 120/240V AC (Maximum)	Twist-Lock®	6	20A, 125V	Yes	Yes	<b>TPDL</b>
	Twist-Lock®	1	30A, 250V	Yes	No	
	Twist-Lock® (Inlet)	1	50A, 125/250V	No	No	
	Twist-Lock® (Outlet)	1	50A, 125/250V	No	No	
50A, 120/240V AC (Maximum)	Straight Blade	6	20A, 125V	Yes	Yes	<b>TPDS</b>
	Twist-Lock®	1	30A, 250V	Yes	No	
	Twist-Lock® (Inlet)	1	50A, 125/250V	No	No	
	Twist-Lock® (Outlet)	1	50A, 125/250V	No	No	
Replacement GFCI module.						<b>HBLCGFM20</b>

### Temporary Power Cables

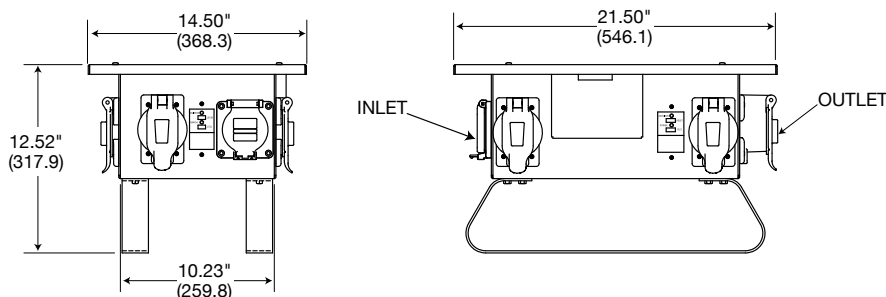
Rating	CableType	Length	Male Device	Female Device	Weatherproof	Catalog Number
					Boot	
50A, 125/250V	6/3, 8/1	50 ft.	CS6365L	CS6364L	No	<b>TPC50</b>
50A, 125/250V	6/3, 8/1	100 ft.	CS6365L	CS6364L	No	<b>TPC100</b>

### Specifications

Boxes	
Listings/Certifications	UL1640, UL943
Operation	Indoor and outdoor wet and dry locations
Enclosure Type	3R, rainproof, suitable for use in damp locations
Code Compliance	NEC®, ANSI/NFPA 70

Cables	
Listings/Certifications	Connectors: UL/CSA; Cable: MSHA
Operation	Indoor and outdoor wet and dry locations

### Dimensions



Dimensions in Inches (mm)

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

## Heavy-Duty Portable Outlet Boxes and Cover Plates

Description	Catalog Number
Box with cord strain relief, with one blank cover plate.	<b>HBLPOB1</b>
Box with cord strain relief, with one blank cover plate, black.	<b>HBLPOB1BK</b>
Box with cord strain relief, with two duplex (indoor) cover plates.	<b>HBLPOB1D</b>
Box with cord strain relief, with two duplex (indoor), yellow cover plates.	<b>HBLPOB1DY</b>
Blank, non-metallic FS cover plate with foam gasket, gray.	<b>HBLP14FS</b>
Duplex, non-metallic FS cover plate, gray.	<b>HBLP8FS</b>
Duplex, non-metallic FS cover plate, yellow.	<b>HBLP8FSY</b>
Single receptacle (1.39"), non-metallic FS cover plate, gray.	<b>HBLP7FS</b>
Single receptacle (1.56"), non-metallic FS cover plate, gray.	<b>HBLP720FS</b>
Rectangular opening, non-metallic FS cover plate, gray.	<b>HBLP26FS</b>



**HBLPOB1**

## Other Cover Plates and Devices

which may be used with Heavy-Duty Portable Outlet Boxes

Description	Catalog Number
Duplex cover plate, weatherproof.	<b>HBL5221, HBL52CM21</b>
Single receptacle (1.39") cover plate, weatherproof.	<b>HBL7423WO, HBL74CM23WO</b>
Single receptacle (1.56") cover plate, weatherproof.	<b>HBL7425WOA, HBL74CM25WOA</b>
Safety-Shroud Twist-Lock® surface receptacles.	<b>HBL2310SR, HBL2320SR, HBL2330SR, HBL2610SR, HBL2620SR</b>



**Cover Plates**

Note: Standard product gray, CM yellow.

## Deluxe Cord Grips Straight Male Thread Nylon Fittings, Stainless Steel Mesh, Liquidtight, for Insulated Cables

Grip Diameter Range Inches (mm)	Thread Size NPT (inches)	Form Size	Catalog Number
.375"-.500" (9.5-12.7)	3/4"	F3	<b>074011335</b>
.500"-.625" (12.7-15.9)	3/4"	F3	<b>074011336</b>
.625"-.750" (15.9-19.0)	3/4"	F3	<b>074011337</b>

## Gray Nylon Cord Connector Straight Male Thread

Grip Diameter Range Inches (mm)	Thread Size NPT (inches)	Form Size	Catalog Number
.375"-.500" (9.5-12.7)	3/4"	F3	<b>SHC1035CR</b>
.500"-.625" (12.7-15.9)	3/4"	F3	<b>SHC1036CR</b>
.625"-.750" (15.9-19.0)	3/4"	F3	<b>SHC1037CR</b>



**Deluxe Cord Grips  
(purchased separately)**

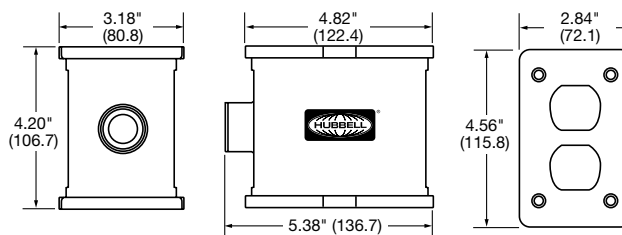
## Specifications for Heavy-Duty Portable Outlet Boxes and Cover Plates

UL Listed	UL514C, UL467 and UL50 Enclosures Types 1, 3R.
CSA Certified	C22.2 No. 18 and C22.2 No. 94 Enclosures Types 1, 3R and C22.2 No. 0.4 (Impedance).
Box Specifications:	
Moisture Resistance	Wet and damp locations, enclosure Type 3R when used with weatherproof cover plates; Dry, indoors locations, enclosure Type 1 with all other cover plates
Flammability	UL94V-0, 94-5VA classification
Operating Temperature	80°C maximum; -35°C minimum
UV Resistance	All materials are UV stabilized
Impact and Crush Resistance	In accordance with UL514C, UL50, C22.2 No. 18 and C22.2 No. 94
Material	Valox®
Cord Connector Materials	Nylon nut; nylon Gotcha® ring; neoprene grommet
Cord Diameter Range	.38" to .75" diameter
Bonding Strap Material	Brass
Threaded Inserts	Brass
Grounding Screw Material	Brass
Indoor Cover Plate Screws Material	Zinc plated steel
Outdoor Cover Plate Screws Material	Stainless steel
Cover Plate Gasket Material	UL recognized closed-cell foam (aging and oil resistant)



**Gray Nylon  
Cord Connector**

## Dimensions



**HBLPOB1**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)



# Single Pole Devices and Temporary Power

## Construction Site Lighting

Hubbell's outdoor approved construction site lighting line includes both heavy duty metal halide lights and light strings for working in rugged environments. The metal halide fixtures feature extremely strong and compact heads with bulbs rated to last 10,000 hours. All frames are powder-coated yellow for safety and are constructed of a durable 1.25 inch, 12 gauge steel tube.

We have light strings for all applications in a variety of models as well as a choice of metal or plastic guards. Light sockets are spaced 10 feet apart and all sockets, plugs, and connectors are molded for added durability. In addition, the highly impact-resistant material makes for easy transportation and storage when not in use. Bulbs can be incandescent, fluorescent or LED. Consider choosing LED lighting for a durable bulb that saves energy, provides instant illumination and are rated to last 50,000 hours.



**HBLMH1000**



**HBLMH400**



**HBLLEDH120**



**HBL182S50LEDH**



**HBL143SJ100PS**



**HBLFS2549**  
Straps not Shown

### Metal Halide and LED Lights

Description	Rating	Watts	Lumen Output	Cord Length	Catalog Number
5 -10 ft. metal halide cart light with portable detachable ballast.	15A 125V	1,000	110,000	—	<b>HBLMH1000</b>
6 -12 ft. metal halide cart light.	15A 125V	2,000	220,000	—	<b>HBLMH2000</b>
High bay metal halide light with wire guard.	15A 125V	400	29,000	3 ft.	<b>HBLMH400</b>
High bay LED light with wire guard.	15A 125V	120	14,000	5 ft.	<b>HBLLEDH120</b>

### LED Stringer Lights

Description	No. of Fixtures	Rating	Cord Type	Lumen Output	Cord Length	Catalog Number
90 LEDs per fixture, light string with magnetic base included.	1	15A 125V	#18/2 SJTW	450*	20 ft.	<b>HBL182S20LED</b>
90 LEDs per fixture, light string.	5	15A 125V	#18/2 SJTW	450*	50 ft.	<b>HBL182S50LED</b>
	10	15A 125V	#18/2 SJTW	450*	100 ft.	<b>HBL182S100LED</b>
60 LEDs per fixture, light string with magnetic base included.	1	15A 125V	#18/2 SJTW	1,100*	20 ft.	<b>HBL182S20LEDH</b>
	5	15A 125V	#18/2 SJTW	1,100*	50 ft.	<b>HBL182S50LEDH</b>
28W High power LED light string with inline ON/OFF switch.	—	15A 125V	#16 AWG SJTOW	2,928	6 ft.	<b>HBLLS2834</b>
Magnetic clip bracket for LED.	—	—	—	—	—	<b>HBLSTMC</b>

Note: \*Lumens per fixture.

### A Type (Edison) Twist-Lock® and Straight Blade Light Strings

Description	Max Watts**	Rating	Cord Type	Fixtures	Cord Length	Catalog Number
Twist-Lock® light string; plastic guards.	150	20A 125V	#12/3 STW	10	100 ft.	<b>HBL123S100PT</b>
	150	20A 125V	#12/3 STJW	10	100 ft.	<b>HBL123SJ100PT</b>
Twist-Lock® light string; metal guards.	150	20A 125V	#12/3 STW	10	100 ft.	<b>HBL123S100MT</b>
Straight Blade light string; plastic guards.	150	15A 125V	#14/2 STJW	10	100 ft.	<b>HBL142SJ100PS</b>
	150	15A 125V	#14/3 STJW	10	100 ft.	<b>HBL143SJ100PS</b>
Straight Blade light string; metal guards.	150	15A 125V	#12/3 STW	10	100 ft.	<b>HBL123S100PS</b>
	150	15A 125V	#12/3 STJW	10	100 ft.	<b>HBL123SJ100PS</b>
Straight Blade light string; plastic guards.	150	15A 125V	#12/3 STW	5	50 ft.	<b>HBL123S50PS</b>
Straight Blade light string; metal guards.	150	15A 125V	#12/3 STW	5	50 ft.	<b>HBL123S50MS</b>
Replacement plastic guard for temporary light strings.	—	—	—	—	—	<b>HBLSTPG</b>
Replacement heavy duty metal guard for temporary light strings.	—	—	—	—	—	<b>HBLSTMG</b>

Note: \*\*Max watts per fixture. **HBL143SJ100PS** light strings are rated for 1875 Watts total. The total wattage must be considered when daisy chaining lights strings to each other.

### Fluorescent Light Strings

Description	Wattage	Rating	Cord Type	Lumen Output	Cord Length	Catalog Number
Fluorescent light string, 34.5" single fixture with hanging straps	50	15A 125V	#16 AWG SJTOW	3,750	6 ft.	<b>HBLFS5035</b>
Fluorescent light string, 48.5" single fixture with hanging straps	25	15A 125V	#16 AWG SJTOW	2,125	6 ft.	<b>HBLFS2549</b>

# Single Pole Devices and Temporary Power

## LED Maintenance Worklights

Description	Outlet Rating	Rating	Wattage	Lumen Output	Cord Type	Cord Length	Catalog Number
LED Industrial maintenance light, 1 vertical hanging hook included.	N/A	15A 125V	20	2400	#16/3 SJEOW	25 ft.	<b>HBLML2825L</b>
LED worklight with end light feature.	N/A	15A 125V	9	920/120	#18/2 SJTOW	25 ft.	<b>HBLWL25LED</b>
LED worklight with end light feature and tool tap.	12 Amp	15A 125V	9	920/120	#16/3 SJTOW	25 ft.	<b>HBLWL25LEDT</b>



## Fluorescent Maintenance Worklights

Description	Outlet Rating	Rating	Wattage	Lumen Output	Cord Type	Cord Length	Catalog Number
Fluorescent worklight with straight blade plug.	N/A	15A 125V	13	825	#16/3 SJTOW	25 ft.	<b>TW25F1</b>
Fluorescent worklight with Twist-Lock® plug and tool tap.	12 Amp	20A 125V	13	825	#16/3 SJTOW	25 ft.	<b>TW25F2</b>
Fluorescent maintenance light, 34.5 in., one vertical hanging hook included.	N/A	15A 125V	50	3750	#16/3 SJEOW	25 ft.	<b>HBLML5025</b>
Fluorescent maintenance light, 48.5 in.	N/A	15A 125V	25	2125	#16/3 SJEOW	25 ft.	<b>HBLML2525</b>
Fluorescent worklight, 45 in., 2 horizontal plastic hangers, 1 attached metal hanging hook included.	N/A	15A 125V	25	2125	#16/3 SJTOW	25 ft.	<b>HBLWL2525</b>



## Accessories and Replacement Items

Description	Catalog Number
Magnetic mounting bracket for ML style lights, 82 lb. capacity.	<b>HBLMLMM</b>
Magnetic mounting bracket for WL style lights, 58 lb. capacity.	<b>HBLWLMM</b>
Replacement rough service fluorescent bulb for 13 watt style lamps.	<b>HBLREPPFB</b>
Metal halide replacement bulb, 400 watts.	<b>HBLREP400MH</b>
Metal halide replacement bulb, 1,000 watts.	<b>HBLREP1000MH</b>
Replacement LED panel fixture, 90 LEDs, 450 lumen.	<b>HBLREP450LED</b>
5 base LED string only, 50 ft., 18/2.	<b>HBLREP182S50</b>
10 base LED string only, 100 ft., 18/2.	<b>HBLREP182S100</b>



## Explosion Proof/Confined Space Lighting

### Hazardous Location Lights

Description	Wattage	Lumen Output	Cord Type	Cord Length	Catalog Number
Fluorescent, Class 1, Div 1 Groups C & D, Class 2, Div 1 Groups F & G, 12V, inline transformer.	26	1800	#16/3 SOW	60 ft.	<b>HBLXF6012V</b>
Incandescent, Class 1, Div 1, Groups C & D, 12V, inline transformer.	75	720	#16/3 SOW	60 ft.	<b>HBLXI6012V</b>
Fluorescent, Class 1, Div 1 Groups C & D, Class 2, Div 1 Groups F & G, 120V, less plug.	26	1800	#16/3 SOW	50 ft.	<b>HBLXF50120V</b>
Incandescent, Class 1, Div 1 Groups C & D, 120V less plug.	100	1230	#16/3 SOW	50 ft.	<b>HBLXI50120V</b>
Fluorescent, non-explosion proof, wet location, 12V, inline transformer.	13	825	#18/2 SJTOW	60 ft.	<b>HBLWT6012V</b>



# Single Pole Devices and Temporary Power

## Pre-Wired Portable Outlet Boxes, Worklights and Accessories



SPB1

### Pre-Wired Portable Outlet Boxes

Description	Catalog Number
25 ft. with 2-15A, 125V, straight blade single receptacles and 1-15A, 125V straight blade plug and boot.	<b>SPB1</b>
25 ft. with 2-20A, 125V, Twist-Lock® single receptacles and 1-20A, 125V Twist-Lock® plug and boot.	<b>SPB2</b>



SPB2

### Worklights and Accessories

Description	Catalog Number
Temporary low voltage worklight with cigarette lighter plug, 20 ft. cord.	<b>TWLV20F</b>
Portable battery pack and charger for TWLV20F worklight.	<b>TWBP</b>
Non-metallic temporary worklight hook.	<b>TWH</b>

### Specifications

#### Temporary Worklights

Listing/Certification	UL298 and cUL portable electric hand lamps
Environment	Dry, indoor locations
Fluorescent Lamp	13 watt twin tube only

#### Battery Pack and Charger

Environment	Indoor and outdoor dry locations
Fluorescent Lamp Life	Fully charged-5 hour approx
Charge Time	Fully charged-16 hours approx
Battery Rating	12 volt



TWLV20F

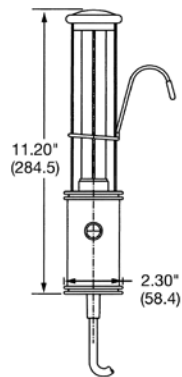


TWBP

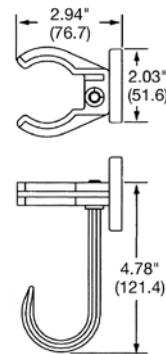


TWH

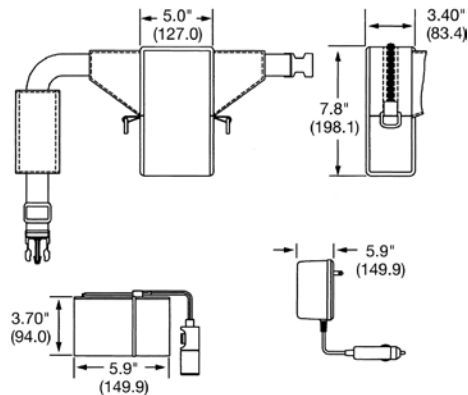
### Light Fixture



### Worklight Hook



### Battery Pack and Charger



Dimensions in Inches (mm)

# SECTION I

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Power Components



**Control Connectors**



**DRUB and PANEL-SAFE®**



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## Cables and Receptacles - Power Components

Device Type	Ratings	Wires	Conductor Colors**	Length (FT)
<p><b>PH</b> = Double Ended Cable with Male/Female Straight  <b>PM</b> = Male Single Ended Straight  <b>PN</b> = Male Single Ended 90°  <b>PF</b> = Female Single Ended Straight  <b>PG</b> = Female Single Ended 90°  <b>PQ</b> = Double Ended Cable with Female 90°  <b>PR</b> = Double Ended Cable with Male 90°  <b>PS</b> = Double Ended Cable with (2) 90° Connectors</p>	<b>20</b> = 20A up to 600V	<b>02</b> <b>03</b> <b>04</b> <b>05</b>	<b>PA</b> = Green/Yellow Black (all others)	<b>001</b> = 1' <b>005</b> = 5' <b>010</b> = 10' <b>015</b> = 15' <b>020</b> = 20' <b>025</b> = 25' <b>030</b> = 30' <b>035</b> = 35' <b>040</b> = 40' <b>045</b> = 45' <b>050</b> = 50'
	<b>23</b> = 20A up to 600V Specialty construction (Includes isolated ground on 6 wire and #10 AWG super neutral conductor on 5 and 6 wire devices, PB color code only)	<b>03</b> <b>04</b> <b>05</b> <b>06</b>		
	<b>30</b> = 30A up to 600V	<b>04</b>	<b>PE</b> = All Blue***	
<p><b>RF</b> = Female Receptacle*</p> <p><b>RM</b> = Male Receptacle (Inlet)*</p>				

**Example: PH**

**23**

**06**

**PB**

**005**

Note: \*1/2" NPT rear thread.

\*\*Other color codes available upon request.

\*\*\*Two wire only.

## Configurations (Male face view shown, female view is opposite)

<b>20 AMP</b>				
<b>20A SNIG</b> (with super neutral and IG)				
<b>30 AMP</b>				

## Tees



**TX2304002304T00**

### Description

LINKOSITY® M/F/F Tee, 20A, 2P  
 LINKOSITY® M/F/F Tee, 20A, 3P  
 LINKOSITY® M/F/F Tee, 20A, 4P  
 LINKOSITY® M/F/F Tee, 20A, 5P  
 LINKOSITY® M/F/F Tee, 20A SNIG, 4P  
 LINKOSITY® M/F/F Tee, 20A SNIG, 6P  
 LINKOSITY® M/F/F Tee, 20A SNIG, A Phase Tap  
 LINKOSITY® M/F/F Tee, 20A SNIG, B Phase Tap  
 LINKOSITY® M/F/F Tee, 20A SNIG, C Phase Tap  
 LINKOSITY® M/F/F Tee, 30A, 4P

### Catalog Number

**TX2002002002T00**  
**TX2003002003T00**  
**TX2004002004T00**  
**TX2005002005T00**  
**TX2304002304T00**  
**TX2306002306T00**  
**TX2306002304A00**  
**TX2306002304B00**  
**TX2306002304C00**  
**TX3004003004T00**

## Closure Caps



**CCMBC**

### Description

20A and 30A Receptacle Closure Cap

### For use with

Female Receptacle    Male Inlet




**CCMBC**

**CCFBC**





## Cables and Receptacles - Control Integration Components

Device Type	Ratings	Wires	Conductor Colors**	Length (FT)
 <b>PH</b> = Double Ended Cable with Male/Female Straight <b>PM</b> = Male Single Ended Straight <b>PN</b> = Male Single Ended 90° <b>PF</b> = Female Single Ended Straight <b>PG</b> = Female Single Ended 90° <b>PQ</b> = Double Ended Cable with Female 90° <b>PR</b> = Double Ended Cable with Male 90° <b>PS</b> = Double Ended Cable with (2) 90° Connectors   <b>RF</b> = Female Receptacle*   <b>RM</b> = Male Receptacle (Inlet)*	3A - 2W, 3W <b>03</b> = 3A - 4W up to 300V	<b>02</b> <b>03</b> <b>04</b>	<b>PA</b> = Green/Yellow Black (all others)	<b>001</b> = 1' <b>005</b> = 5' <b>010</b> = 10' <b>015</b> = 15' <b>020</b> = 20' <b>025</b> = 25' <b>030</b> = 30' <b>035</b> = 35' <b>040</b> = 40' <b>045</b> = 45' <b>050</b> = 50'
	3A - 2W, 3W <b>R3</b> = 3A - 4W up to 300V	<b>02</b> <b>03</b> <b>04</b>		
	10A - 2W, 3W 10A - 4W <b>10</b> = 10A - 5W, 6W, 7W 10A - 8W, 9W 7A - 10W, 12W up to 600V	<b>02</b> <b>03</b> <b>04</b> <b>05</b> <b>06</b> <b>07</b> <b>08</b> <b>09</b> <b>10</b> <b>12</b>	<b>PE</b> = All Blue***	

**Example: PH**

**10**

**06**

**PB**

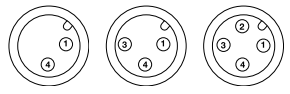

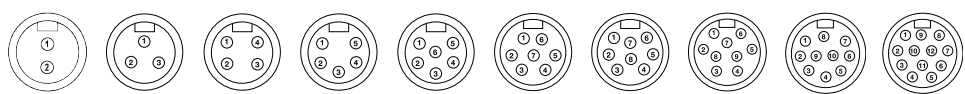
**005**

Note: \*\*1/2" NPT rear thread.

\*\*Other color codes available upon request.

\*\*\*Two wire only.

## Configurations (Male face view shown, female view is opposite)

<b>03</b>		Typically used for inputs in DC control circuits
<b>R3*</b>		Typically used for outputs in DC control circuits
<b>10</b>		

Note: \*Reverse key.

## Splitters/Tees

Description	Catalog Number
LINKOSITY® M/F/F Splitter, 3A/4W	<b>TX0304000304T00</b>
LINKOSITY® M/F/F Tee, 10A, 2 Pole	<b>TX1002001002T00</b>
LINKOSITY® M/F/F Tee, 10A, 3 Pole	<b>TX1003001003T00</b>
LINKOSITY® M/F/F Tee, 10A, 4 Pole	<b>TX1004001004T00</b>
LINKOSITY® M/F/F Tee, 10A, 5 Pole	<b>TX1005001005T00</b>
LINKOSITY® M/F/F Tee, 10A, 6 Pole	<b>TX1006001006T00</b>



**TX1004001004T00**

## Closure Caps

Description	For use with	
	Female Receptacle	Male Inlet
3A Closure Cap	<b>CCM1C</b>	<b>CCF1C</b>
10A Closure Cap, 2, 3, 4, 4, 5 and 6 Pole	<b>CCMAC</b>	<b>CCFAC</b>
10A Closure Cap, 7 and 8 Pole	<b>CCMBC</b>	<b>CCFBC</b>
10A Closure Cap, 9, 10, 12 Pole	<b>CCMCC</b>	<b>CCFCC</b>



**CCFAC**

## Features and Benefits



### Power System Distribution Assemblies

- Available with up to 5 receptacles, wide variety of NEMA 5-20 receptacle grades
- Power pass thru option
- 16 gauge sheet metal enclosure ANSI 61 gray powder coat NEMA 1
- Device identification marking
- Versatile mounting provision
- Local or master switch
- LINKOSITY® connection



MSL3L1IGP

Note: Accepts PH2304 series cables.

### Straight Blade - UL Type 1

Device Type	Switch Types	# Recepts	Receptacle Type	Receptacle Feature	Pass-thru	Custom Configurations*
<b>M</b>	<b>SL</b> = Switch Local	<b>1</b>	<b>SG</b> = Spec Grade <b>HG</b> = Hospital Grade <b>CR</b> = Corrosion Resistant	<b>IG</b> = Isolated Ground <b>GF</b> = Ground Fault <b>SS</b> = Surge Suppression <b>00</b> = Standard	<b>P</b> = Pass-thru** <b>0</b> = No Pass-thru	<b>D</b> = 2 Circuit <b>A</b> = A Phase <b>B</b> = B Phase <b>C</b> = C Phase
	<b>SM</b> = Switch Master	<b>2</b>				
	<b>00</b> = No Switch	<b>3</b>				
		<b>4</b>				
		<b>5</b>				

Example: **M SL 1 SG 00 P**

### Twist-Lock® - UL Type 1

Device Type	Switch Types	# Recepts	Receptacle Type	Receptacle Feature	Pass-thru	Custom Configurations*
<b>M</b>	<b>SL</b> = Switch Local	<b>1</b>	<b>L1</b> = 15A <b>L2</b> = 20A	<b>IG</b> = Isolated Ground <b>00</b> = Standard	<b>P</b> = Pass-thru <b>0</b> = No Pass-thru	<b>6</b> = 250V
	<b>SM</b> = Switch Master	<b>2</b>				
	<b>00</b> = No Switch	<b>3</b>				
		<b>4</b>				
		<b>5</b>				

Example: **M 00 3 L1 IG 0**

Note: Local switches control all receptacles in a box. Master switches control local and downstream receptacles. Consult factory for alternate wiring schemes.

\*Consult factory for wiring specifications and connecting cables.

\*\*Pass-thru on phase tap boxes are 3Ø.

### Switch Only (ON/OFF) - UL Type 1

Device Type	Switch Types	Switch Style	Poles
<b>S</b>	<b>1</b> = 1 Gang	<b>2W</b> = ON/OFF	<b>1P</b> = Single Pole <b>DP</b> = Two Pole
	<b>2</b> = 2 Gang		
	<b>3</b> = 3 Gang		

Example: **S 1 2W 1P**

### Switch Only (4-Way) - UL Type 1

Device Type	Switch Types	Switch Style
<b>S</b>	<b>1</b> = 1 Gang	<b>4W</b> = 4 Way

Example: **S 1 4W**

### Switch Only (3-Way) - UL Type 1

Device Type	Switch Types	Switch Style	Position
<b>S</b>	<b>1</b> = 1 Gang	<b>3W</b> = 3 Way	<b>M</b> = Main <b>R</b> = Remote <b>LM</b> = Line to Main <b>LR</b> = Load to Remote

Example: **S 1 3W M**

Note: For use with Px2304PBxxx series cables.

## Features

Receptacle Types	CR	HG	SG	L1
<b>00</b> Standard	<b>HBL53CM62</b>	<b>HBL8300GY</b>	<b>5362G</b>	<b>HBL4700</b>
<b>IG</b> Isolated Ground	—	—	<b>CR5352IGGY</b>	<b>IG4700A</b>
<b>GF</b> Ground Fault	—	<b>GFRST83GY</b>	<b>GF20GYLA</b>	—
<b>SS</b> Surge Suppression	—	<b>HBL8362GYSA</b>	<b>HBL5362GYSA</b>	—
Switch Types	CR	HG	SG	L1
<b>SL</b> Local ON/OFF	—	—	<b>HBL1221PL</b>	—
<b>SM</b> Master ON/OFF	—	—	<b>HBL1221PL</b>	—



## LINKOSITY® Feed - UL Type 3R Rated\*

### 3R Rated Standard Items

Description	Catalog Number
20A 125V Ground Fault	<b>M3R002SGGF0</b>
20A 125V Switched, Spec Grade	<b>M3RSL1SG000</b>
20A 125V Switched, Ground Fault	<b>M3RSL1SGGF0</b>
20A 125V Spec Grade	<b>M3R002SG000</b>
20A 125V Ground Fault, Pass-Thru	<b>M3R002SGGFP</b>
20A 125V Switched, Spec Grade, Pass-Thru	<b>M3RSL1SG00P</b>
20A 125V Switched, Ground Fault Pass-Thru	<b>M3RSL1SGGF0P</b>
20A 125V Switched, Ground Fault Pass-Thru	<b>M3R002SG00P</b>

Note: \*When cover closed.  
Accepts PH2304 series cables.

Device Type	Style	Type	No. of Devices	Device Type	Device Feature	Pass-Thru
M	3R - 3R Lids 3D - 3R Deep Cover	SL - Switch Local	1	SG - Spec Grade	IG - Isolated Ground	P - Pass-Thru
		SM - Switch Master	2	HG - Hospital Grade	GF - Ground Fault	0 - No Pass-Thru
		00 - None		CR - Corrosion Resistant	SI - Surge/IG	
				L1 - 15A Locking	SS - Surge	
					00 - Standard	



## LINKOSITY® Feed - UL Type 4X Rated\*

### 4X Rated NEMA Standard Items

Description	Catalog Number
20A 125V Straight Blade	<b>MLWF2010</b>
20A 125V WTSSTL	<b>MLWF2020</b>
20A 125V Straight Blade, Pass-Thru	<b>MLWF201P</b>
20A 125V WTSSTL, Pass-Thru	<b>MLWF202P</b>

Note: \*Watertight Safety-Shroud® Twist-Lock® Plug required when in use.  
\*\*Straight Blade are UL Type 4X when not in use only.  
WTSSTL is an abbreviation for Watertight Safety-Shroud® Twist-Lock®.  
Accepts PH2304 series cables.

Device Type	Style	Type	No. of Devices	Device Type	Pass-Thru
M	L - LINKOSITY	WF - Watertight Safety-Shroud Receptacle	2	01 - 20A 125V Straight Blade**	P - Pass-Thru
		WM - Watertight Safety-Shroud Inlet		02 - 20A 125V Twist-Lock	0 - No Pass-Thru
				03 - 20A 250V Twist-Lock	
				04 - 20A 277V Twist-Lock	
				05 - 30A 125V Twist-Lock	
				06 - 30A 250V Twist-Lock	
				07 - 20A 125/250V Twist-Lock	
				08 - 20A 3Ø 250V Twist-Lock	
				09 - 20A 3Ø 480V Twist-Lock	
				10 - 30A 125/250V Twist-Lock	
				11 - 30A 3Ø 250V Twist-Lock	
				12 - 30A 3Ø 480V Twist-Lock	
				13 - 30A 3Ø 600V Twist-Lock	



## All LINKOSITY® - UL Type 4X Rated\*

### 4X Rated LINKOSITY Standard Items

Description	Catalog Number
20A 3W up to 600V, 4 Port	<b>M4L2003PB0</b>
20A 3W up to 600V, 4 Port Pass-Thru	<b>M4L2003PBP</b>

Note: \*Closure Cap required when not in use.  
Accepts PH2304 series cables.

Device Type	Style	Type	No. of Poles	Conductor Colors	Pass - Thru
M	4L - LINKOSITY	20 - 20A	02	PA - Green/Yellow	P - Pass-Thru
		23 - 20A Super Neutral Isolated Ground	03	Black (all others)	0 - No Pass-Thru
			04		
			05	PB - Green/Yellow	
			06	White	
				Black (all others)	
		30 - 30A			



## Conduit Feed - UL Type 4X Rated\*

### Conduit Feed Standard Items

Description	Catalog Number
20A 125V Straight Blade	<b>MCWF2010</b>
20A 125V WTSSTL	<b>MCWF2020</b>
20A 250V WTSSTL	<b>MCWF2030</b>
20A 277V WTSSTL	<b>MCWF2040</b>
30A 125V WTSSTL	<b>MCWF2050</b>
30A 250V WTSSTL	<b>MCWF2060</b>
20A 125/250V WTSSTL	<b>MCWF2070</b>
20A 3Ø, 250V WTSSTL	<b>MCWF2080</b>
20A 3Ø, 480V WTSSTL	<b>MCWF2090</b>
30A 125/250V WTSSTL	<b>MCWF2100</b>
30A 3Ø 250V WTSSTL	<b>MCWF2110</b>
30A 3Ø 480V WTSSTL	<b>MCWF2120</b>
30A 3Ø 600V WTSSTL	<b>MCWF2130</b>

Note: \*Watertight Safety-Shroud® Twist-Lock® Plug required when in use.  
WTSSTL is an abbreviation for Watertight Safety-Shroud® Twist-Lock®.

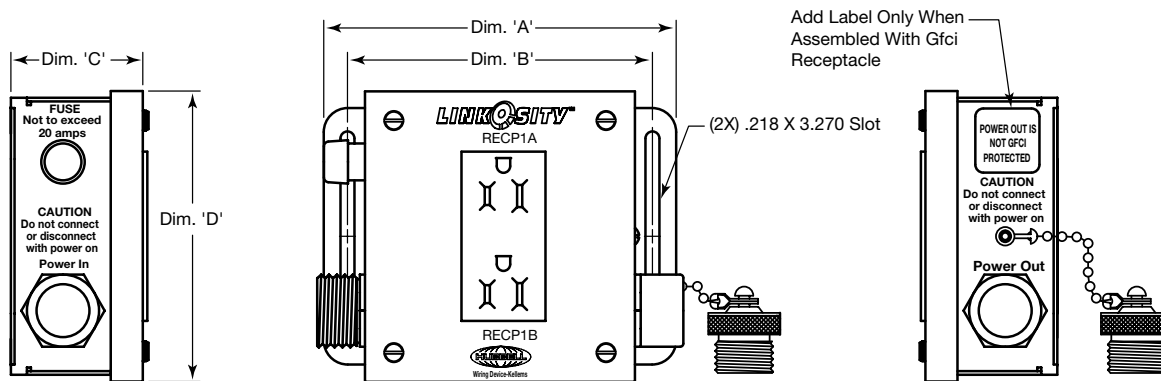
Device Type	Style	Type	No. of Devices	NEMA Device Type	Pass-Thru
M	C - Conduit Feed	WF - Watertight Safety-Shroud Receptacles	2	01 - 20A 125V Straight Blade	0 - No Pass-Thru
		WM - Watertight Safety-Shroud Inlet		02 - 20A 125V Twist-Lock	
				03 - 20A 250V Twist-Lock	
				04 - 20A 277V Twist-Lock	
				05 - 30A 125V Twist-Lock	
				06 - 30A 250V Twist-Lock	
				07 - 20A 125/250V Twist-Lock	
				08 - 20A 3Ø 250V Twist-Lock	
				09 - 20A 3Ø 480V Twist-Lock	
				10 - 30A 125/250V Twist-Lock	
				11 - 30A 3Ø 250V Twist-Lock	
				12 - 30A 3Ø 480V Twist-Lock	
				13 - 30A 3Ø 600V Twist-Lock	



## Replacement Mounting Feet

Description	Catalog Number
For Power Distribution Assemblies.	<b>HBLRFT1<sup>Δ</sup></b>

Note: <sup>Δ</sup> Package of 10 mounting feet and 10 screws.



Catalog Number M001\*\*\*\*P Shown

Catalog Number	Gangs	Dimension 'A'	Dimension 'B'	Dimension 'C'	Dimension 'D'
<b>M001****P</b>	1	5.50 (139.7)	4.75 (120.7)	2.25 (57.2)	4.53 (115.1)
<b>M002****P</b>	2	7.50 (190.5)	6.75 (171.5)	2.25 (57.2)	4.53 (115.1)
<b>M003****P</b>	3	9.50 (241.3)	8.75 (222.3)	2.25 (57.2)	4.53 (115.1)
<b>M004****P</b>	4	11.50 (292.1)	10.75 (273.1)	2.25 (57.2)	4.53 (115.1)
<b>M005****P</b>	5	13.50 (342.9)	12.75 (323.9)	2.25 (57.2)	4.53 (115.1)

## LINKOSITY® Specifications

### Certifications

System Level	ETL Classified to NEC
Component Assemblies (PSDA)	UL Listed
Connecting Components	Listed to UL2238 and UL 50
Cable (Up to #22 AWG)	UL 300V Type ITC/PLTC 105°C
Cable (#16 AWG and Up)	UL 600V Type TC-ER, MTW 90°C or ST00W 600V 105°C

### Cable Diameter

Amps	Wires	O.D.
20	3	.595 (15.1)
20	4	.645 (16.4)
20	5	.710 (18.0)
20	6	.760 (19.3)
30	4	.710 (18.0)

### Performance

Electrical	
Voltage	Up to 600V
Amperage	Up to 30A

### Environmental

Connectivity System Components	
Moisture Resistance	UL Type 4, 4X, 12 and 13
Ingress Protection	IP66 Suitability
Flammability	UL94HB Cables/UL94V-0 receptacles

### Power System Distribution Assemblies

Moisture Resistance	NEMA Type 1, Type 3R, Type 4X
---------------------	-------------------------------

Dimensions in Inches (mm)



## Housing Design

- Thermoplastic Cover on Plated Steel Base
- NEMA 1 Enclosure
- Pre-wired with LINKOSITY® Components
- Crush and Impact Resistance of MC Cable



HBL1389MQ5

## Housing Design

- High Impact Valox® Enclosure
- Type 4X Enclosure
- Permanent Labelless Marking
- Lockable Handle to Meet OSHA Lockout/Tagout Regulations
- Cable Ratings:  
TC-ER, MTW, STOOW



HBLDS3MQ5

## MotorQuick® Disconnect Switches

Type 1 Non-Metallic Enclosure 30A 3 Pole 600V AC	Catalog Number	
HBL1389D with one pre-wired LINKOSITY® female receptacle (load side).	<b>HBL1389MQR</b>	
HBL1389D with 5 foot pre-wired LINKOSITY® female cable (load side).	<b>HBL1389MQ5</b>	
HBL1389D with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	<b>HBL1389MQR2</b>	
Type 4X Non-Metallic Labelless Enclosure 30A 3 Pole 600V AC	Catalog Number	
HBLDS3 with one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3MQR</b>	
HBLDS3 with 5 foot pre-wired LINKOSITY® female cable (load side).	<b>HBLDS3MQ5</b>	
HBLDS3 with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3MQR2</b>	
Type 4X Stainless Steel Enclosure 30A 3 Pole 600V AC	Sloped Top	Square Top
HBLDS3SS with one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3SSRMQR</b>	<b>HBLDS3SSMQR</b>
HBLDS3SS with 5 foot pre-wired LINKOSITY® female cable (load side).	<b>HBLDS3SSRMQ5</b>	<b>HBLDS3SSMQ5</b>
HBLDS3SS with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	<b>HBLDS3SSRMQR2</b>	<b>HBLDS3SSMQR2</b>



## Accessories

Description	Catalog Number
3P 4W LINKOSITY® male receptacle for installation on motor.	<b>RM3004PA001</b>
3P 4W LINKOSITY® female receptacle for installation in switch.	<b>RF3004PA001</b>
3P 4W LINKOSITY® double ended (male/female) 5-50 foot cable.	<b>PH3004PAxxx*</b>
3P 4W LINKOSITY® single ended (female) 5-50 foot cable.	<b>PF3004PAxxx*</b>
Cord connector, 3/4 in. NPT .63-.75 in. (16.0-19.1) diameter.	<b>SHC1037CR</b>
Lock-on cover for LINKOSITY® connections.	<b>PH2030C</b>

Note: \*Cables available from 5-50 feet in 5 foot increments. To purchase larger cable, replace the **xxx** with the required length in feet. (Examples: **PH3004PA005** = 5 foot cable, **PH3004PA050** = 50 foot cable.)

## Sample Set Up

(1) HBLDS3MQR + (1) PH3004PAxxx + (1) RM3004PA001 = Total Set Up\*\*



PH2030C

Note: \*\* Retrofit parts available for pre-existing disconnect switch installations. Please consult factory for availability.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



## Features and Benefits

**IP66**  
SUITABILITY

### Mini-Quick® Control Connectors

- Nickel plated brass coupling nuts and receptacle shells
- Black overmold and cable
- Insulgrip connector body design
- UL Listed cable assemblies and receptacles
- Plating resists corrosion in high abuse environments
- Cable assembly resists dirt and blends with environment giving a clean look to the installation
- Third party certified for electrical, mechanical and environmental performance
- Ergonomic connector body has an industrial look



#### Housing Design

- Gated strain relief with graduated window sizes improves flexibility, strength and protects wire terminations; superior arc of bend control



#### Internal Design

- Leaded nickel copper sleeved contact extends contact life and continuity
- O-rings for moisture protection
- Anti-vibration coupling nut prevents connection from loosening under harsh vibration conditions
- Indicator ring ensures proper mating

## Material Specifications

Insulator Materials	Nylon 6/6, White	Cable	#16 AWG SEOOW - TPE jacket, Black, PVC conductor insulation, Stranding - 65/34
Contact Materials	Pins - Brass, Sockets Leaded nickel copper w/ stainless steel sleeve		#18 AWG SEOOW - TPE jacket, Black, PVC conductor insulation, Stranding - 41/34
Contact Plating	Hard gold over palladium/nickel		#18 AWM2661 - PVC jacket, Black, PVC conductor insulation, Stranding - 41/34
Overmold Material	Polyurethane, Black	Strain Relief	#16 AWG and #18 AWG - 30 pounds min per UL2238
Coupling Nut, Metallic	Nickel plated brass		
Coupling Nut, Nylon	Nylon 6/6, Black		
Receptacle Shell	Nickel plated brass, SST consult factory		
Receptacle Shell, Nylon	Nylon 6/6, Black		
Receptacle Shell, Right Angle	Nickel plated zinc alloy die cast, SST consult factory		

## Electrical Specifications

Voltage Rating	600V DC/600V AC
Amperage	#16 AWG - 2&3P=15A, 4P=12A, 5&6P=10A 7P=10A, 8&9P=9A, 10&12P=8A #18 AWG - 2&3P=11A, 4P=8A, 5&6P=7A
Contact Resistance	≤ 5 mΩ
Isolation Resistance	≥ 1000 MΩ

## Environmental Specifications

Moisture Protection	UL Type 4, 4X, 12 and 13
Ingress Protection	IP66 Suitability
Operating Temperature	AWM2661 cables: -20°C to 105° C SEOOW cable: -40°C to 105° C
Corrosion Resistance	500 hours salt spray per MIL-STD-1344, Method 1001
Vibration Resistance	10 - 2,000 Hz @15g per MIL-STD-1344, Method 2005

## Certifications

UL 2238 and UL50E, File No. E192071

CSA Certified, C22.2 No. 182.3 and CSA C22.2 No. 94.2-07

## Mini-Quick® 2 - 6 Pole Plugs

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **HCMA05112** is derived as follows:

DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	POLES	CONDUCTOR TYPE	CABLE LENGTH (ft)
<b>HC</b> = Plug, Female <b>HP</b> = Plug, Male <b>HI</b> = Plug, Male Inline♦ <b>HE</b> = Male/Female Extension Cable♦ <b>HJ</b> = Male/Female Jumper Cable	<b>M</b> = Metallic <b>N</b> = Nylon	<b>A</b> = Right Angle <b>S</b> = Straight	<b>02</b> <b>03</b> <b>04</b> <b>05</b> <b>06</b>	<b>1</b> = #16 AWG SEOOW Cable <b>3</b> = #18 AWM2661 IEC Cable* <b>4</b> = #18 AWG SEOOW Cable  *3 - 5 Pole Only	<b>**</b> <b>03</b> <b>06</b> <b>12</b> <b>20</b>  **Replace with Length
<b>HC</b>	<b>M</b>	<b>A</b>	<b>05</b>	<b>1</b>	<b>12</b>

Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

♦ Available with metallic coupling nut only.

## Mini-Quick® 2 - 6 Pole Plugs

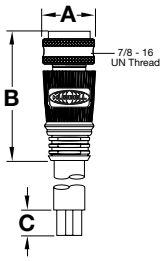
Catalog numbers using #16 AWG SEOOW cable are listed below. For #18 AWG SEOOW or #18 AWM2661 IEC cable, change the conductor type per the Hubbell Logic chart above.

Poles	Male Face Shown Female - mirror image	Cable Length	Female Plugs		Male Plugs		Male/Female JumperCables
			Straight	Right Angle	Straight	Right Angle	Straight
2		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths▲	<b>HCMS02103</b>	<b>HCMA02103</b>	<b>HPMS02103</b>	<b>HPMA02103</b>	<b>HJMS02103</b>
			<b>HCMS02106</b>	<b>HCMA02106</b>	<b>HPMS02106</b>	<b>HPMA02106</b>	<b>HJMS02106</b>
			<b>HCMS02112</b>	<b>HCMA02112</b>	<b>HPMS02112</b>	<b>HPMA02112</b>	<b>HJMS02112</b>
			<b>HCMS021**</b>	<b>HCMA021**</b>	<b>HPMS021**</b>	<b>HPMA021**</b>	<b>HJMS021**</b>
3		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths▲	<b>HCMS03103</b>	<b>HCMA03103</b>	<b>HPMS03103</b>	<b>HPMA03103</b>	<b>HJMS03103</b>
			<b>HCMS03106</b>	<b>HCMA03106</b>	<b>HPMS03106</b>	<b>HPMA03106</b>	<b>HJMS03106</b>
			<b>HCMS03112</b>	<b>HCMA03112</b>	<b>HPMS03112</b>	<b>HPMA03112</b>	<b>HJMS03112</b>
			<b>HCMS031**</b>	<b>HCMA031**</b>	<b>HPMS031**</b>	<b>HPMA031**</b>	<b>HJMS031**</b>
4		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths▲	<b>HCMS04103</b>	<b>HCMA04103</b>	<b>HPMS04103</b>	<b>HPMA04103</b>	<b>HJMS04103</b>
			<b>HCMS04106</b>	<b>HCMA04106</b>	<b>HPMS04106</b>	<b>HPMA04106</b>	<b>HJMS04106</b>
			<b>HCMS04112</b>	<b>HCMA04112</b>	<b>HPMS04112</b>	<b>HPMA04112</b>	<b>HJMS04112</b>
			<b>HCMS041**</b>	<b>HCMA041**</b>	<b>HPMS041**</b>	<b>HPMA041**</b>	<b>HJMS041**</b>
5		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths▲	<b>HCMS05103</b>	<b>HCMA05103</b>	<b>HPMS05103</b>	<b>HPMA05103</b>	<b>HJMS05103</b>
			<b>HCMS05106</b>	<b>HCMA05106</b>	<b>HPMS05106</b>	<b>HPMA05106</b>	<b>HJMS05106</b>
			<b>HCMS05112</b>	<b>HCMA05112</b>	<b>HPMS05112</b>	<b>HPMA05112</b>	<b>HJMS05112</b>
			<b>HCMS051**</b>	<b>HCMA051**</b>	<b>HPMS051**</b>	<b>HPMA051**</b>	<b>HJMS051**</b>
6		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths▲	<b>HCMS06103</b>	<b>HCMA06103</b>	<b>HPMS06103</b>	<b>HPMA06103</b>	<b>HJMS06103</b>
			<b>HCMS06106</b>	<b>HCMA06106</b>	<b>HPMS06106</b>	<b>HPMA06106</b>	<b>HJMS06106</b>
			<b>HCMS06112</b>	<b>HCMA06112</b>	<b>HPMS06112</b>	<b>HPMA06112</b>	<b>HJMS06112</b>
			<b>HCMS061**</b>	<b>HCMA061**</b>	<b>HPMS061**</b>	<b>HPMA061**</b>	<b>HJMS061**</b>

Note: ▲ Replace \*\* with length required in feet. For nylon coupling nuts, replace "M" with "N" per the ordering chart above.  
 Example: change **HPMA05106** to **HPNA05106**.

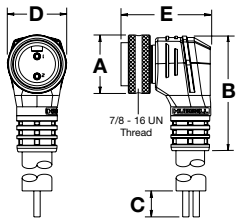
## Mini-Quick® 2 - 6 Pole Plugs

### Straight Plug



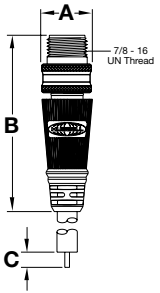
	MALE	FEMALE
<b>A</b>	0.99" (25.2)	0.99" (25.2)
<b>B</b>	2.44" (62.0)	2.40" (61.0)
<b>C</b>	2.75" (69.9)	2.75" (69.9)

### Right Angle Plug



	MALE	FEMALE
<b>A</b>	0.99" (25.2)	0.99" (25.2)
<b>B</b>	2.14" (54.4)	2.14" (54.4)
<b>C</b>	2.75" (69.9)	2.75" (69.9)
<b>D</b>	1.03" (26.2)	1.03" (26.2)
<b>E</b>	1.64" (40.6)	1.60" (40.6)

### Inline Plug



	MALE
<b>A</b>	0.99" (25.2)
<b>B</b>	2.47" (62.8)
<b>C</b>	2.75" (69.9)

Right Angle version also available.

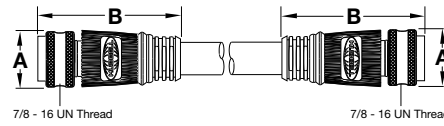
### Accessories

Closure caps protect plugs and receptacles when not in use. Adapter rings allow the mating of male and female plugs for in-line applications. Shell size is 1, and the thread is 7/8-16 UN.

Description	Catalog Number	
Closure Cap	<b>HPCAP1</b>	
Closure Cap	<b>HRCAP1</b>	
Adapter Ring	<b>HMQR1</b>	

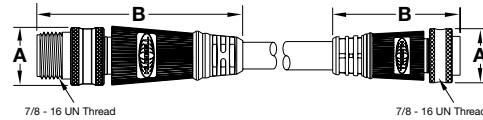
Dimensions in Inches (mm)

### Jumper Cable



	MALE	FEMALE
<b>A</b>	0.99" (25.2)	0.99" (25.2)
<b>B</b>	2.44" (62.0)	2.40" (61.0)

### Male/Female Extension Cable



	MALE	FEMALE
<b>A</b>	0.99" (25.2)	0.99" (25.2)
<b>B</b>	2.47" (62.7)	2.40" (61.0)

### Cable Diameters By Cable Type

Number of Conductors	#16 AWG SEOOW	#18 AWG SEOOW
2	0.37" (9.4)	0.35" (8.9)
3	0.39" (9.9)	0.37" (9.4)
4	0.42" (10.7)	0.39" (9.9)
5	0.50" (12.7)	0.47" (11.9)
6	0.52" (13.2)	0.48" (12.2)

Number of Conductors	#18 AWM2661 IEC
3	0.26" (6.6)
4	0.26" (6.6)
5	0.26" (6.6)

### Conductor Color Code

#### #16 AWG SEOOW Plugs

Contact Number	2 Pole	3 Pole	4 Pole	5 Pole	6 Pole
1	White	Green	Black	White	White
2	Black	Black	White	Red	Red
3		White	Red	Green	Green
4			Green	Orange	Orange
5				Black	Black
6					Blue

#### #18 AWG SEOOW Plugs

Contact Number	3 Pole	4 Pole	5 Pole
1	Green	Black	White
2	Black	White	Red
3	White	Red	Green
4		Green	Orange
5			Black

#### #18 AWM 2661 IEC

Contact Number	3 Pole	4 Pole	5 Pole
1	Yellow/Green	Black	Black
2	Brown	Blue	Blue
3	Blue	Brown	Yellow/Green
4		White	Brown
5			White

## Mini-Quick® 2 - 6 Pole Receptacles

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **HBMS05501** is derived as follows:

DEVICE TYPE	SHELL MATERIAL	BODY STYLE	POLES	CONDUCTOR TYPE	LEAD WIRE LENGTH (ft)
<b>HR</b> = Receptacle, Female <b>HB</b> = Receptacle, Male	<b>M</b> = Metallic <b>N</b> = Nylon	<b>A</b> = Right Angle* <b>S</b> = Straight <b>F</b> = Flange Mount*  <i>*Metallic Only</i>	<b>02</b> <b>03</b> <b>04</b> <b>05</b> <b>06</b>	<b>5</b> = #16 AWG Discrete Wire <b>6</b> = #18 AWG IEC Discrete Wire (IEC colors)*  <i>*3 - 5 Pole Only</i>	<b>01*</b> <b>**</b>  <i>*1 Standard Length                      **Replace with Length</i>
<b>HB</b>	<b>M</b>	<b>S</b>	<b>05</b>	<b>5</b>	<b>01</b>

Note: Availability of specific items may vary. Consult factory for delivery. Use this chart to build receptacles to meet any application need. Consult the factory for additional wire lengths or wire types.

## Mini-Quick® 2 - 6 Pole Receptacles

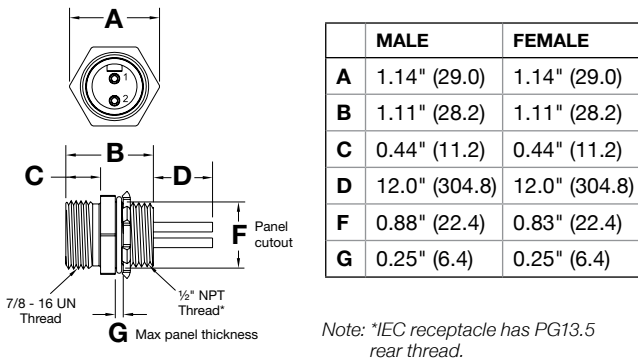
#16 AWG Discrete Wire ♦

Poles	Male Face Shown Female - mirror image	Female Receptacles				Male Receptacles			
		Straight	Nylon	Right Angle	Flange Mount	Straight	Nylon	Right Angle	Flange Mount
2		HRMS02501	HRNS02501	HRMA02501	HRMF02501	HBMS02501	HBNS02501	HBMA02501	HBMF02501
3		HRMS03501	HRNS03501	HRMA03501	HRMF03501	HBMS03501	HBNS03501	HBMA03501	HBMF03501
4		HRMS04501	HRNS04501	HRMA04501	HRMF04501	HBMS04501	HBNS04501	HBMA04501	HBMF04501
5		HRMS05501	HRNS05501	HRMA05501	HRMF05501	HBMS05501	HBNS05501	HBMA05501	HBMF05501
6		HRMS06501	HRNS06501	HRMA06501	HRMF06501	HBMS06501	HBNS06501	HBMA06501	HBMF06501

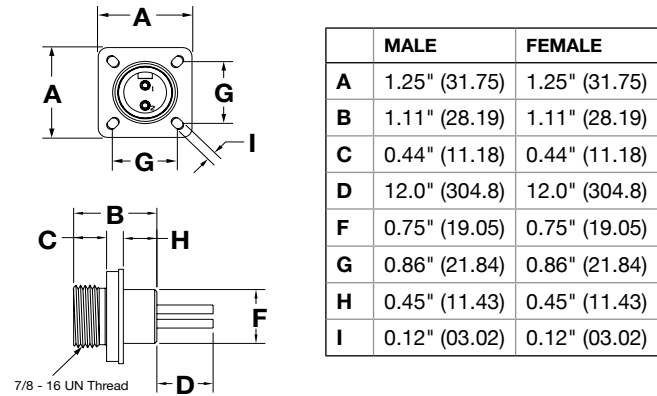
Note: ♦ For #18 AWG IEC discrete wire, change the conductor type using the Hubbell Logic chart above.

## Mini-Quick® 2 - 6 Pole Receptacles

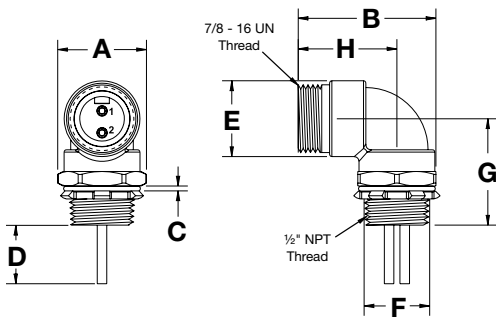
### Straight Receptacles



### Flange Mount Receptacles



### Right Angle Receptacles



	MALE	FEMALE
<b>A</b>	1.14" (29.0)	1.14" (29.0)
<b>B</b>	1.76" (44.7)	1.76" (44.7)
<b>C</b>	0.25" (6.4)	0.25" (6.4)
<b>D</b>	12.0" (304.8)	12.0" (304.8)
<b>E</b>	0.97" (24.6)	0.97" (24.6)
<b>F</b>	0.83" (21.8)	0.83" (21.8)
<b>G</b>	1.36" (34.5)	1.36" (34.5)
<b>H</b>	1.26" (32.0)	1.26" (32.0)

### Accessories

Closure caps protect plugs and receptacles when not in use. Shell size is 1, and the thread is 7/8-16 UN.

Description	Catalog Number
Closure Cap	<b>HPCAP1</b>
Closure Cap	<b>HRCAP1</b>

Dimensions in Inches (mm)

### Color Code By Wire Type

#### #16 AWG Receptacles

Contact Number	2 Pole	3 Pole	4 Pole	5 Pole	6 Pole
1	White	Green	Black	White	White
2	Black	Black	White	Red	Red
3		White	Red	Green	Green
4			Green	Orange	Orange
5				Black	Black
6					Blue

#### #18 AWG Receptacles

Contact Number	3 Pole	4 Pole	5 Pole
1	Yellow/Green	Black	Black
2	Brown	Blue	Blue
3	Blue	Brown	Yellow/Green
4		White	Brown
5			White



## Mini-Quick® 7 - 12 Pole Plugs

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **HCMA08112** is derived as follows:

DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	POLES	CONDUCTOR TYPE	CABLE LENGTH (ft)
<b>HC</b> = Plug, Female <b>HP</b> = Plug, Male <b>HJ</b> = Male/Female Jumper Cable	<b>M</b> = Metallic <b>N</b> = Nylon	<b>A</b> = Right Angle <b>S</b> = Straight	<b>07</b> <b>08</b> <b>09</b> <b>10</b> <b>12</b>	<b>1</b> = #16 AWG SEOOW Cable	<b>**</b> <b>03</b> <b>06</b> <b>12</b> <b>20</b>  <i>**Replace with Length</i>
<b>HC</b>	<b>M</b>	<b>A</b>	<b>08</b>	<b>1</b>	<b>12</b>

Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

## Mini-Quick® 7 - 12 Pole Plugs

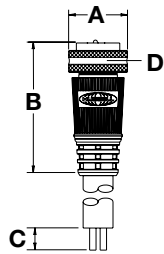
Catalog numbers using #16 AWG SEOOW cable are listed below.

Poles	Male Face Shown Female - mirror image	Cable Length	Female Plugs		Male Plugs		Male/Female Jumper Cables
			Straight	Right Angle	Straight	Right Angle	Straight
7		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths <sup>▲</sup>	<b>HCMS07103</b>	<b>HCMA07103</b>	<b>HPMS07103</b>	<b>HPMA07103</b>	<b>HJMS07103</b>
			<b>HCMS07106</b>	<b>HCMA07106</b>	<b>HPMS07106</b>	<b>HPMA07106</b>	<b>HJMS07106</b>
			<b>HCMS07112</b>	<b>HCMA07112</b>	<b>HPMS07112</b>	<b>HPMA07112</b>	<b>HJMS07112</b>
			<b>HCMS071**</b>	<b>HCMA071**</b>	<b>HPMS071**</b>	<b>HPMA071**</b>	<b>HJMS071**</b>
8		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths <sup>▲</sup>	<b>HCMS08103</b>	<b>HCMA08103</b>	<b>HPMS08103</b>	<b>HPMA08103</b>	<b>HJMS08103</b>
			<b>HCMS08106</b>	<b>HCMA08106</b>	<b>HPMS08106</b>	<b>HPMA08106</b>	<b>HJMS08106</b>
			<b>HCMS08112</b>	<b>HCMA08112</b>	<b>HPMS08112</b>	<b>HPMA08112</b>	<b>HJMS08112</b>
			<b>HCMS081**</b>	<b>HCMA081**</b>	<b>HPMS081**</b>	<b>HPMA081**</b>	<b>HJMS081**</b>
9		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths <sup>▲</sup>	<b>HCMS09103</b>	<b>HCMA09103</b>	<b>HPMS09103</b>	<b>HPMA09103</b>	<b>HJMS09103</b>
			<b>HCMS09106</b>	<b>HCMA09106</b>	<b>HPMS09106</b>	<b>HPMA09106</b>	<b>HJMS09106</b>
			<b>HCMS09112</b>	<b>HCMA09112</b>	<b>HPMS09112</b>	<b>HPMA09112</b>	<b>HJMS09112</b>
			<b>HCMS091**</b>	<b>HCMA091**</b>	<b>HPMS091**</b>	<b>HPMA091**</b>	<b>HJMS091**</b>
10		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths <sup>▲</sup>	<b>HCMS10103</b>	<b>HCMA10103</b>	<b>HPMS10103</b>	<b>HPMA10103</b>	<b>HJMS10103</b>
			<b>HCMS10106</b>	<b>HCMA10106</b>	<b>HPMS10106</b>	<b>HPMA10106</b>	<b>HJMS10106</b>
			<b>HCMS10112</b>	<b>HCMA10112</b>	<b>HPMS10112</b>	<b>HPMA10112</b>	<b>HJMS10112</b>
			<b>HCMS101**</b>	<b>HCMA101**</b>	<b>HPMS101**</b>	<b>HPMA101**</b>	<b>HJMS101**</b>
12		3 ft (0.91m) 6 ft (1.83m) 12 ft (3.66m) All other lengths <sup>▲</sup>	<b>HCMS12103</b>	<b>HCMA12103</b>	<b>HPMS12103</b>	<b>HPMA12103</b>	<b>HJMS12103</b>
			<b>HCMS12106</b>	<b>HCMA12106</b>	<b>HPMS12106</b>	<b>HPMA12106</b>	<b>HJMS12106</b>
			<b>HCMS12112</b>	<b>HCMA12112</b>	<b>HPMS12112</b>	<b>HPMA12112</b>	<b>HJMS12112</b>
			<b>HCMS121**</b>	<b>HCMA121**</b>	<b>HPMS121**</b>	<b>HPMA121**</b>	<b>HJMS121**</b>

Note: <sup>▲</sup> Replace \*\* with length required in feet. For nylon coupling nuts, replace "M" with "N" per the ordering chart above.  
Example: change **HPMA07106** to **HPNA07106**.

## Mini-Quick® 7 - 12 Pole Plugs

### Straight Plug



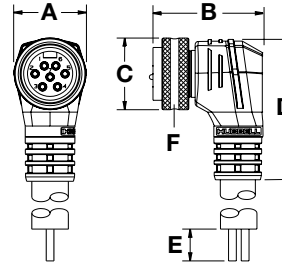
#### 7 - 8 Pole

	MALE	FEMALE
A	1.12" (28.5)	1.12" (28.5)
B	2.53" (64.3)	2.49" (63.3)
C	2.75" (69.9)	2.75" (69.9)
D	1 - 16 UN Thread	

#### 9 - 12 Pole

	MALE	FEMALE
A	1.25" (31.8)	1.25" (31.8)
B	2.77" (70.4)	2.73" (69.3)
C	2.75" (69.9)	2.75" (69.9)
D	1 1/8 - 16 UN Thread	

### Right Angle Plug



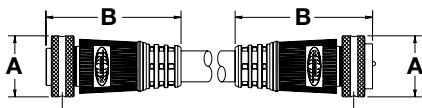
#### 7 - 8 Pole

	MALE	FEMALE
A	1.14" (29.0)	1.14" (29.0)
B	1.73" (43.9)	1.69" (42.9)
C	1.12" (28.5)	1.12" (28.5)
D	2.22" (56.4)	2.22" (56.4)
E	2.75" (69.9)	2.75" (69.9)
F	1 - 16 UN Thread	

#### 9 - 12 Pole

	MALE	FEMALE
A	1.25" (31.8)	1.25" (31.8)
B	1.84" (47.0)	1.80" (45.7)
C	1.25" (31.8)	1.25" (31.8)
D	2.54" (64.5)	2.54" (64.5)
E	2.75" (69.9)	2.75" (69.9)
F	1 1/8 - 16 UN Thread	

### Jumper Cable



#### 7 - 8 Pole

	MALE	FEMALE
A	1.12" (28.5)	1.12" (28.5)
B	2.53" (64.3)	2.49" (63.3)
C	1 - 16 UN Thread	

#### 9 - 12 Pole

	MALE	FEMALE
A	1.25" (31.8)	1.25" (31.8)
B	2.77" (70.4)	2.73" (69.3)
C	1 1/8 - 16 UN Thread	

### Cable Diameters By Cable Type

Number of Conductors	#16 AWG STOOW
7	0.52" (13.2)
8	0.56" (14.2)
9	0.60" (15.2)
10	0.65" (16.7)
12	0.70" (17.7)

### Conductor Color Code

#### #16 AWG SEOOW Plugs

Contact Number	2 Pole	3 Pole	4 Pole	5 Pole	6 Pole	7 Pole	8 Pole	9 Pole	10 Pole	12 Pole
1	White	Green	Black	White	White	White/Black	Orange	Orange	Orange	Orange
2	Black	Black	White	Red	Red	Black	Blue	Blue	Blue	Blue
3		White	Red	Green	Green	White	White/Black	Red/Black	White/Black	White/Black
4			Green	Orange	Orange	Red	Black	Green/Black	Red/Black	Red/Black
5			Black	Black	Black	Orange	White	White	Green/Black	Green/Black
6					Blue	Blue	Red	Red	Orange/Black	Orange/Black
7						Green	Green	Green	Red	Blue/Black
8							Red/Black	White/Black	Green	Black/White
9								Black	Black	Green
10									White	Red
11										White
12										Black

### Accessories

Closure caps protect plugs and receptacles when not in use. Adapter rings allow the mating of male and female plugs for in-line applications.

Description	Closure Cap			Closure Cap			Adapter Ring		
	Shell Size	Thread Size	Catalog Number	Shell Size	Thread Size	Catalog Number	Shell Size	Thread Size	Catalog Number
7 to 8 Pole	II	1 - 16 UN	<b>HPCAP2</b>	II	1 - 16 UN	<b>HRCAP2</b>	II	1 - 16 UN	<b>HMQR2</b>
9 to 12 Pole	III	1 1/8 - 16UN	<b>HPCAP3</b>	III	1 1/8 - 16UN	<b>HRCAP3</b>	III	1 1/8 - 16UN	<b>HMQR3</b>
Cap Size									
Cap Size	II- 1.12" (28.5), III- 1.25" (31.8)			II- 1.13" (28.6), III- 1.25" (31.8)			II- 1.00" (25.4), III- 1.13" (28.6)		

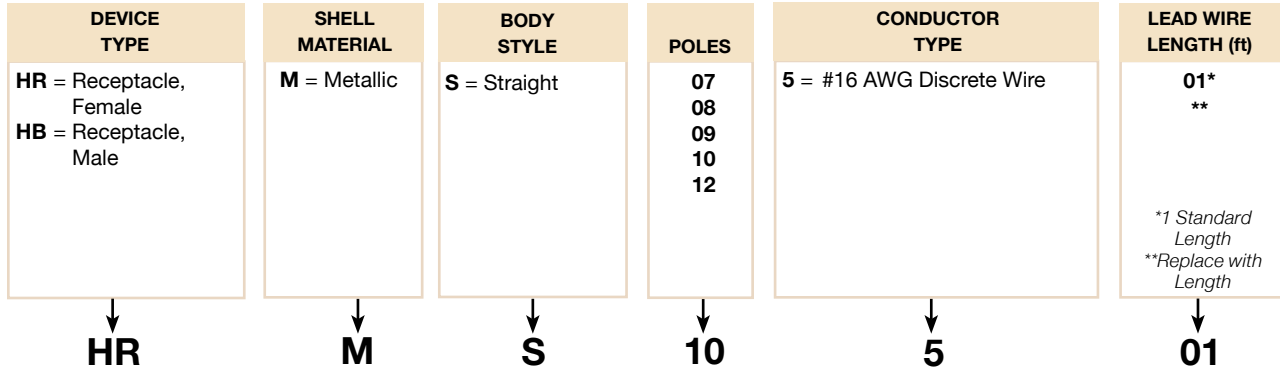
Dimensions in Inches (mm)

## Mini-Quick® 7 - 12 Pole Receptacles

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **HRMS10501** is derived as follows:



Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional wire lengths or wire types.

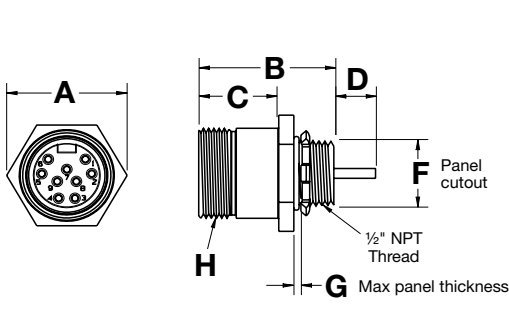
## Mini-Quick® 7 - 12 Pole Receptacles

#16 AWG Discrete Wire

Poles	Male Face Shown Female - mirror image	Female Receptacles	Male Receptacles
7		<b>HRMS07501</b>	<b>HBMS07501</b>
8		<b>HRMS08501</b>	<b>HBMS08501</b>
9		<b>HRMS09501</b>	<b>HBMS09501</b>
10		<b>HRMS10501</b>	<b>HBMS10501</b>
12		<b>HRMS12501</b>	<b>HBMS12501</b>

## Mini-Quick® 7 - 12 Pole Receptacles

### Straight Receptacles



#### 7 - 8 Pole

	MALE	FEMALE
<b>A</b>	1.29" (32.8)	1.29" (32.8)
<b>B</b>	1.44" (36.6)	1.44" (36.6)
<b>C</b>	0.80" (20.3)	0.80" (20.3)
<b>D</b>	12.0" (304.8)	12.0" (304.8)
<b>F</b>	0.83" (21.1)	0.83" (21.1)
<b>G</b>	0.25" (6.4)	0.25" (6.4)
<b>H</b>	1 - 16 UN Thread	

#### 9 - 12 Pole

	MALE	FEMALE
<b>A</b>	1.44" (36.6)	1.44" (36.6)
<b>B</b>	1.62" (41.2)	1.62" (41.2)
<b>C</b>	0.96" (24.4)	0.96" (24.4)
<b>D</b>	12.0" (304.8)	12.0" (304.8)
<b>F</b>	0.83" (21.1)	0.83" (21.1)
<b>G</b>	0.25" (6.4)	0.25" (6.4)
<b>H</b>	1 1/8 - 16 UN Thread	

### Conductor Color Code

#### #16 AWG Receptacles

Contact Number	2 Pole	3 Pole	4 Pole	5 Pole	6 Pole	7 Pole	8 Pole	9 Pole	10 Pole	12 Pole
1	White	Green	Black	White	White	White/Black	Orange	Orange	Orange	Orange
2	Black	Black	White	Red	Red	Black	Blue	Blue	Blue	Blue
3		White	Red	Green	Green	White	White/Black	Red/Black	White/Black	White/Black
4			Green	Orange	Orange	Red	Black	Green/Black	Red/Black	Red/Black
5				Black	Black	Orange	White	White	Green/Black	Green/Black
6					Blue	Blue	Red	Red	Orange/Black	Orange/Black
7						Green	Green	Green	Red	Blue/Black
8							Red/Black	White/Black	Green	Black/White
9								Black	Black	Green
10									White	Red
11										White
12										Black

### Accessories

Closure caps protect plugs and receptacles when not in use. Adapter rings allow the mating of male and female plugs for in-line applications.

Description	Closure Cap			Closure Cap			Adapter Ring		
	Shell Size	Thread Size	Catalog Number	Shell Size	Thread Size	Catalog Number	Shell Size	Thread Size	Catalog Number
7 to 8 Pole	II	1 - 16 UN	<b>HPCAP2</b>	II	1 - 16 UN	<b>HRCAP2</b>	II	1 - 16 UN	<b>HMQR2</b>
9 to 12 Pole	III	1 1/8 - 16UN	<b>HPCAP3</b>	III	1 1/8 - 16UN	<b>HRCAP3</b>	III	1 1/8 - 16UN	<b>HMQR3</b>
Cap Size	II- 1.12" (28.5), III- 1.25" (31.8)			II- 1.13" (28.6), III- 1.25" (31.8)			II- 1.00" (25.4), III- 1.13" (28.6)		

Dimensions in Inches (mm)

## Features and Benefits

**IP66**  
SUITABILITY

### Mini-Quick® Field Attachable Connectors - Screw Terminal Style

#### Electrical Specifications

Voltage Rating	250V
Amperage	3 Pin - 12A 4,5 Pin - 9A
Wire Size, Max	#16 AWG

#### Mechanical Specifications

Coupling Nut	Anodized aluminum, SST consult factory
Connector Shell	PBT
Connector Insert	PUR/PA
Contacts	Brass, gold plate over palladium nickel

#### Environmental Specifications

Moisture Resistance	IP66 Suitability
Operating Temperature	-40°C to 85°C



#### Housing Design

- High impact body design
- Strain relief protects terminations



#### Internal Design

- Superior contact design utilizing high performance gold over palladium nickel plating
- Coupling nut anodized aluminum, SST option consult factory
- Precision wire funnels eliminate stray strands

### Mini-Quick® 3 - 5 Pole Field Attachable Connectors

Poles	Male Face Shown Female - mirror image	Cable Range	Female Connector		Male In-Line Connector		Male Connector	
			Straight	Right Angle	Straight	Right Angle	Straight	Right Angle
3		.24"-.32" (6.1-8.1)	<b>HCMS03F9</b>	<b>HCMA03F9</b>	<b>HIMS03F9</b>	<b>HIMA03F9</b>	<b>HPMS03F9</b>	<b>HPMA03F9</b>
		.39"-.47" (9.9-11.9)	<b>HCMS03F13</b>	—	<b>HIMS03F13</b>	—	<b>HPMS03F13</b>	—
		.47"-.55" (11.9-13.1)	—	—	—	—	—	—
4		.24"-.32" (6.1-8.1)	<b>HCMS04F9</b>	<b>HCMA04F9</b>	<b>HIMS04F9</b>	<b>HIMA04F9</b>	<b>HPMS04F9</b>	<b>HPMA04F9</b>
		.39"-.47" (9.9-11.9)	<b>HCMS04F13</b>	—	<b>HIMS04F13</b>	—	<b>HPMS04F13</b>	—
		.47"-.55" (11.9-13.1)	<b>HCMS04F16</b>	—	<b>HIMS04F16</b>	—	<b>HPMS04F16</b>	—
5		.24"-.32" (6.1-8.1)	<b>HCMS05F9</b>	<b>HCMA05F9</b>	<b>HIMS05F9</b>	<b>HIMA05F9</b>	<b>HPMS05F9</b>	<b>HPMA05F9</b>
		.39"-.47" (9.9-11.9)	<b>HCMS05F13</b>	—	<b>HIMS05F13</b>	—	<b>HPMS05F13</b>	—
		.47"-.55" (11.9-13.1)	<b>HCMS05F16</b>	—	<b>HIMS05F16</b>	—	<b>HPMS05F16</b>	—

#### Female, Straight Male, Straight



#### Female, Right Angle Male, Right Angle



#### Male In-Line, Straight



#### Male In-Line, Right Angle



Dimensions in Inches (mm)



## Features and Benefits

**IP66**  
SUITABILITY

### Micro-Quick® Control Connectors

- Nickel plated brass coupling nuts and receptacle shells
- Black overmold and cable
- Insulgrip connector body design
- Beryllium copper socket contacts
- Standard #22 AWG cable 85% copper braid coverage
- Plating resists corrosion in high abuse environments
- Strong, resilient base metal ensures contacts maintain their shape and continuity over time.
- Cable resists nicks and abrasions and provides shielding when braid is terminated
- Resilient base metal maintains socket contact shape
- Ergonomic connector body has an industrial look



#### Housing Design

- Gated strain relief with graduated window sizes distributes force away from contacts to protect terminations



#### Internal Design

- Hard gold over palladium/nickel contact plating high mating cycles and longer contact life
- O-rings for moisture protection
- Custom knurled, anti-vibration coupling nut prevents connection from loosening under harsh vibration conditions
- Indicator ring ensures proper mating

## Material Specifications

Insulator Materials	Nylon 6/6, White	Cable	#22 AWG - PVC jacket (black)
Contact Materials	Pins - Brass		PVC conductor insulation
	Sockets - Beryllium copper		Copper braid - 85% coverage
Contact Plating	Hard gold over palladium/nickel		Stranding - 19/34
Overmold Material	Glass filled polyurethane, Black		#18 AWG - TPE jacket (black)
Coupling Nut, Metallic	Nickel plated brass		PVC conductor insulation
Coupling Nut, Nylon	Nylon 6/6, Black		Stranding - 41/34
Receptacle Shell	Nickel plated brass	Strain Relief	#22 AWG - 20 pounds min per UL2238
			#18 AWG - 30 pounds min per UL 2238

## Electrical Specifications

Voltage Rating	300V DC/300V AC
Amperage	#22 AWG - 2&3P=5A, 4&5P=4A, 6P=3A #18 AWG - 2&3P=8A, 4P=6A, 5P=5A
Contact Resistance	≤ 5 mΩ
Isolation Resistance	≥ 1000 MΩ

## Environmental Specifications

Moisture Protection	UL Type 4, 4X, 12 and 13
Ingress Protection	IP66 Suitability
Operating Temperature	#22 AWG PVC cable: -20°C to 105° C #18 AWG TPE cable: -40°C to 105° C
Corrosion Resistance	500 hours salt spray per MIL-STD-1344, Method 1001
Vibration Resistance	10 - 2,000 Hz @15g per MIL-STD-1344, Method 2005

## Certifications

UL 2238 and UL50E, File No. E192071

CSA Certified, C22.2 No. 182.3 and CSA C22.2 No. 94.2-07

## Micro-Quick® Single Key 3 - 5 Pole Plugs

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **MCMS1312** is derived as follows:

DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	KEY STYLE	POLES	CONDUCTOR TYPE	CABLE LENGTH (m)
<b>MC</b> = Plug, Female <b>MI</b> = Plug, Male Inline <b>ME</b> = Male/Female Extension Cable	<b>M</b> = Metallic <b>N</b> = Nylon	<b>A</b> = Right Angle <b>S</b> = Straight	<b>1</b> = Single	<b>3</b> <b>4</b> <b>5</b>	<b>1</b> = #22 AWG PVC Cable <b>2</b> = #18 AWG TPE Cable*  *2 - 4 Pole Only	<b>**</b> <b>2</b> <b>4</b> <b>5</b>  **Replace with Length
<b>MC</b>	<b>M</b>	<b>S</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>

Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

## Micro-Quick® 3 - 5 Pole Single Key Plugs

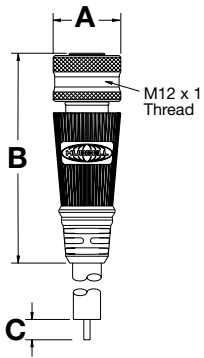
Catalog numbers using #22 AWG PVC cable are listed below. For #18 AWG TPE cable, change the conductor type per the Hubbell Logic chart above.

Poles	Male Face Shown Female - mirror image	Cable Length	Female Plugs		Male In-Line Plugs	Male/Female Extension Cables
			Straight	Right Angle	Straight	Straight
3		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS1312</b>	<b>MCMA1312</b>	<b>MIMS1312</b>	<b>MEMS1312</b>
			<b>MCMS1314</b>	<b>MCMA1314</b>	<b>MIMS1314</b>	<b>MEMS1314</b>
			<b>MCMS1315</b>	<b>MCMA1315</b>	<b>MIMS1315</b>	<b>MEMS1315</b>
			<b>MCMS131**</b>	<b>MCMA131**</b>	<b>MIMS131**</b>	<b>MEMS131**</b>
4		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS1412</b>	<b>MCMA1412</b>	<b>MIMS1412</b>	<b>MEMS1412</b>
			<b>MCMS1414</b>	<b>MCMA1414</b>	<b>MIMS1414</b>	<b>MEMS1414</b>
			<b>MCMS1415</b>	<b>MCMA1415</b>	<b>MIMS1415</b>	<b>MEMS1415</b>
			<b>MCMS141**</b>	<b>MCMA141**</b>	<b>MIMS141**</b>	<b>MEMS141**</b>
5		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS1512</b>	<b>MCMA1512</b>	<b>MIMS1512</b>	<b>MEMS1512</b>
			<b>MCMS1514</b>	<b>MCMA1514</b>	<b>MIMS1514</b>	<b>MEMS1514</b>
			<b>MCMS1515</b>	<b>MCMA1515</b>	<b>MIMS1515</b>	<b>MEMS1515</b>
			<b>MCMS151**</b>	<b>MCMA151**</b>	<b>MIMS151**</b>	<b>MEMS151**</b>

Note: ▲ Replace \*\* with length required in meters. For nylon coupling nuts, replace "M" with "N" per the ordering chart above.  
Example: change **MCMA1412** to **MCNA1412**.

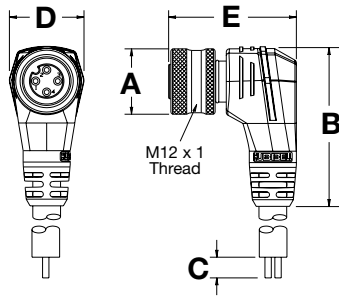
## Micro-Quick® Single Key 3 - 5 Pole Plugs

### Straight Female Plug



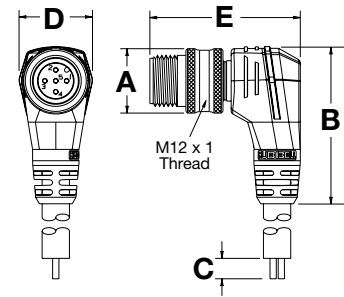
<b>A</b>	0.59" (15.0)
<b>B</b>	1.83" (46.5)
<b>C</b>	2.75" (69.9)

### Right Angle Female Plug



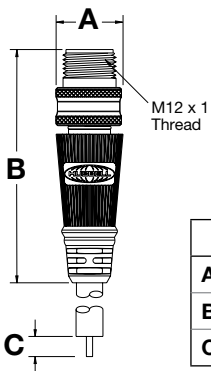
<b>A</b>	0.59" (15.0)
<b>B</b>	1.44" (36.6)
<b>C</b>	2.75" (69.9)
<b>D</b>	0.67" (17.0)
<b>E</b>	1.15" (29.2)

### Right Male In-Line Plug



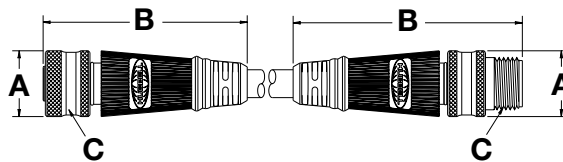
<b>A</b>	0.59" (15.0)
<b>B</b>	1.44" (36.6)
<b>C</b>	2.75" (69.9)
<b>D</b>	0.67" (17.0)
<b>E</b>	1.38" (35.1)

### Straight Male In-Line Plug



	MALE
<b>A</b>	0.59" (15.0)
<b>B</b>	2.06" (52.3)
<b>C</b>	2.75" (69.9)

### Extension Cable



	FEMALE	MALE
<b>A</b>	0.59" (15.0)	0.59" (15.0)
<b>B</b>	1.83" (46.5)	2.06" (52.3)
<b>C</b>	M12 x 1	

### Cable Diameters By Cable Type

Number of Conductors	#22 AWG PVC	#18 AWG TPE
3	0.21" (5.3)	0.24" (6.1)
4	0.22" (5.7)	0.26" (6.6)
5	0.26" (6.6)	0.28" (7.1)

### Conductor Color Code

Contact Number	3 Pole	4 Pole	5 Pole
1	Brown	Brown	Brown
2	Not Used	White	White
3	Blue	Blue	Blue
4	Black	Black	Black
5	Not Used	Not Used	Gray

### Accessories

#### Dust Caps

Closure caps protect plugs and receptacles when not in use. Thread is M12 x 1.

Catalog Number	
<b>MRCM1</b>	
<b>MPCM1</b>	

Dimensions in Inches (mm)

## Micro-Quick® Single Key 3 - 5 Pole Receptacles

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **MRMS13314** is derived as follows:

DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	KEY STYLE	POLES	CONDUCTOR TYPE	REAR THREAD STYLE
<b>MB</b> = Receptacle, Male <b>MF</b> = Receptacle, Female Inverse	<b>M</b> = Metallic	<b>S</b> = Straight	<b>1</b> = Single	3 4 5	<b>3</b> = #22 AWG PVC Discrete Wire <b>4</b> = #18 AWG PVC Discrete Wire* *3 - 4 Pole Only	<b>14</b> = M14x1* <b>25</b> = ¼" NPT** <b>50</b> = ½" NPT* *MB Style Only **MF Style Only
<b>MR</b>	<b>M</b>	<b>S</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>14</b>

Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

## Micro-Quick® 3 - 5 Pole Single Key Receptacles- #22 AWG Discrete Wire\*

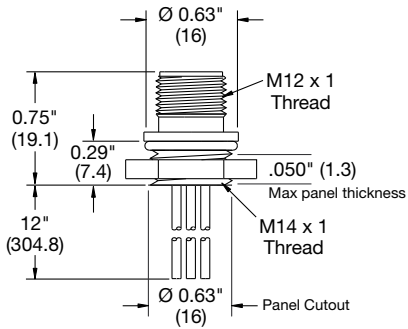
Catalog numbers using #22 AWG PVC discrete wire are listed below. For #18 AWG PVC discrete wire, change the conductor type per the Hubbell Logic chart above.

Poles	Male Face Shown Female - mirror image	Male Receptacle Rear Thread Style		Female Inverse Receptacles Rear Thread Style
		M14 x 1	½" NPT	¼" NPT
3		<b>MBMS13314</b>	<b>MBMS13350</b>	<b>MFMS13325</b>
4		<b>MBMS14314</b>	<b>MBMS14350</b>	<b>MFMS14325</b>
5		<b>MBMS15314</b>	<b>MBMS15350</b>	<b>MFMS15325</b>

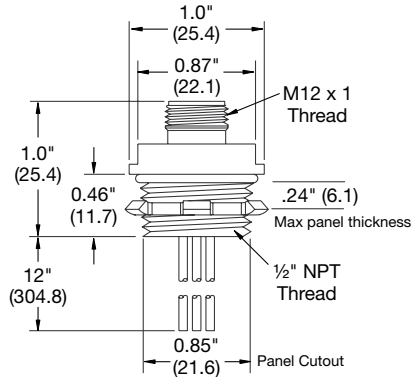
Note: \*For #18 AWG discrete wire, replace the conductor type per Hubbell Logic chart above.  
 All receptacles available in 1ft. length standard. For additional lengths, please consult factory.

## Micro-Quick® Single Key 3 - 5 Pole Receptacles

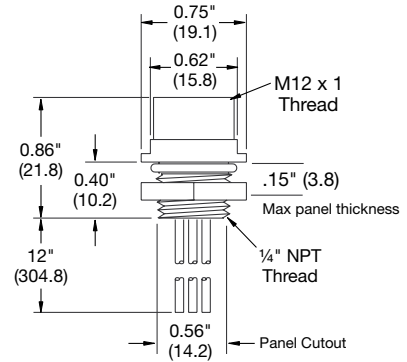
### Male Receptacle Rear Thread - M14x1



### Male Receptacle Rear Thread - 1/2" NPT



### Female Inverse Receptacle Rear Thread - 1/4" NPT



### Conductor Color Code - Single Key

Contact Number	3 Pole	4 Pole	5 Pole
1	Brown	Brown	Brown
2	Not Used	White	White
3	Blue	Blue	Blue
4	Black	Black	Black
5	Not Used	Not Used	Gray

### Accessories

#### Dust Caps

Closure caps protect plugs and receptacles when not in use. Thread is M12 x 1.

Catalog Number	
<b>MRCM1</b>	
<b>MPCM1</b>	

Dimensions in Inches (mm)



## Micro-Quick® Dual Key 2 - 6 Pole Plugs

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **MPMS2512** is derived as follows:

DEVICE TYPE	COUPLING NUT MATERIAL	BODY STYLE	KEY STYLE	POLES	CONDUCTOR TYPE	CABLE LENGTH (m)
<b>MC</b> = Plug, Female <b>MP</b> = Plug, Male <b>MI</b> = Plug, Male Inline <b>ME</b> = Male/Female Extension Cable	<b>M</b> = Metallic <b>N</b> = Nylon	<b>A</b> = Right Angle <b>S</b> = Straight	<b>2</b> = Dual	2 3 4 5 6	1 = #22 AWG PVC Cable 2 = #18 AWG TPE Cable*  *2 - 5 Pole Only	** 2 4 5  **Replace with Length
<b>MP</b>	<b>M</b>	<b>S</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>2</b>

Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

## Micro-Quick® 2 - 6 Pole Dual Key Plugs

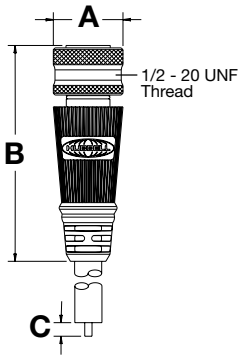
Catalog numbers using #22 AWG PVC cable are listed below. For #18 AWG TPE cable, change the conductor type per the Hubbell Logic chart above.

Poles	Male Face Shown Female - mirror image	Cable Length	Female Plugs		Male Plugs			Male/Female Extension Cables
			Straight	Right Angle	Straight	Right Angle	In-Line Straight	Straight
2		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS2212</b>	<b>MCMA2212</b>	<b>MPMS2212</b>	<b>MPMA2212</b>	<b>MIMS2212</b>	<b>MEMS2212</b>
			<b>MCMS2214</b>	<b>MCMA2214</b>	<b>MPMS2214</b>	<b>MPMA2214</b>	<b>MIMS2214</b>	<b>MEMS2214</b>
			<b>MCMS2215</b>	<b>MCMA2215</b>	<b>MPMS2215</b>	<b>MPMA2215</b>	<b>MIMS2215</b>	<b>MEMS2215</b>
			<b>MCMS221**</b>	<b>MCMA221**</b>	<b>MPMS221**</b>	<b>MPMA221**</b>	<b>MIMS221**</b>	<b>MEMS221**</b>
3		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS2312</b>	<b>MCMA2312</b>	<b>MPMS2312</b>	<b>MPMA2312</b>	<b>MIMS2312</b>	<b>MEMS2312</b>
			<b>MCMS2314</b>	<b>MCMA2314</b>	<b>MPMS2314</b>	<b>MPMA2314</b>	<b>MIMS2314</b>	<b>MEMS2314</b>
			<b>MCMS2315</b>	<b>MCMA2315</b>	<b>MPMS2315</b>	<b>MPMA2315</b>	<b>MIMS2315</b>	<b>MEMS2315</b>
			<b>MCMS231**</b>	<b>MCMA231**</b>	<b>MPMS231**</b>	<b>MPMA231**</b>	<b>MIMS231**</b>	<b>MEMS231**</b>
4		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS2412</b>	<b>MCMA2412</b>	<b>MPMS2412</b>	<b>MPMA2412</b>	<b>MIMS2412</b>	<b>MEMS2412</b>
			<b>MCMS2414</b>	<b>MCMA2414</b>	<b>MPMS2414</b>	<b>MPMA2414</b>	<b>MIMS2414</b>	<b>MEMS2414</b>
			<b>MCMS2415</b>	<b>MCMA2415</b>	<b>MPMS2415</b>	<b>MPMA2415</b>	<b>MIMS2415</b>	<b>MEMS2415</b>
			<b>MCMS241**</b>	<b>MCMA241**</b>	<b>MPMS241**</b>	<b>MPMA241**</b>	<b>MIMS241**</b>	<b>MEMS241**</b>
5		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS2512</b>	<b>MCMA2512</b>	<b>MPMS2512</b>	<b>MPMA2512</b>	<b>MIMS2512</b>	<b>MEMS2512</b>
			<b>MCMS2514</b>	<b>MCMA2514</b>	<b>MPMS2514</b>	<b>MPMA2514</b>	<b>MIMS2514</b>	<b>MEMS2514</b>
			<b>MCMS2515</b>	<b>MCMA2515</b>	<b>MPMS2515</b>	<b>MPMA2515</b>	<b>MIMS2515</b>	<b>MEMS2515</b>
			<b>MCMS251**</b>	<b>MCMA251**</b>	<b>MPMS251**</b>	<b>MPMA251**</b>	<b>MIMS251**</b>	<b>MEMS251**</b>
6		6.56 ft (2m) 13.12 ft (4m) 16.40 ft (5m) All other lengths▲	<b>MCMS2612</b>	<b>MCMA2612</b>	<b>MPMS2612</b>	<b>MPMA2612</b>	<b>MIMS2612</b>	<b>MEMS2612</b>
			<b>MCMS2614</b>	<b>MCMA2614</b>	<b>MPMS2614</b>	<b>MPMA2614</b>	<b>MIMS2614</b>	<b>MEMS2614</b>
			<b>MCMS2615</b>	<b>MCMA2615</b>	<b>MPMS2615</b>	<b>MPMA2615</b>	<b>MIMS2615</b>	<b>MEMS2615</b>
			<b>MCMS261**</b>	<b>MCMA261**</b>	<b>MPMS261**</b>	<b>MPMA261**</b>	<b>MIMS261**</b>	<b>MEMS261**</b>

Note: ▲ Replace \*\* with length required in meters. For nylon coupling nuts, replace "M" with "N" per the ordering chart above.  
Example: change **MCMS2314** to **MCNS2314**.

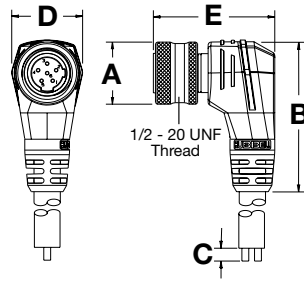
## Micro-Quick® Dual Key 2 - 6 Pole Plugs

### Straight Plug



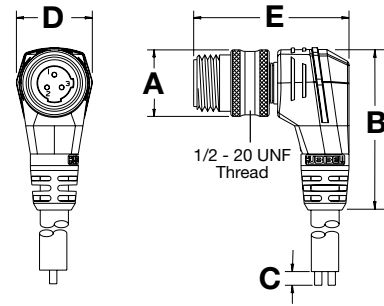
	MALE	FEMALE
<b>A</b>	0.59" (15.0)	0.59" (15.0)
<b>B</b>	1.83" (46.5)	1.83" (46.5)
<b>C</b>	2.75" (69.9)	2.75" (69.9)

### Right Angle Plug



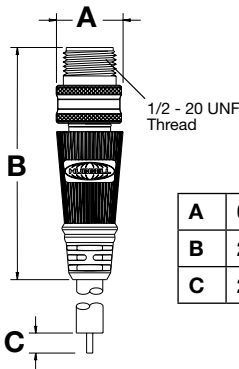
	MALE	FEMALE
<b>A</b>	0.59" (15.0)	0.59" (15.0)
<b>B</b>	1.44" (36.6)	1.44" (36.6)
<b>C</b>	2.75" (69.9)	2.75" (69.9)
<b>D</b>	0.67" (17.0)	0.67" (17.0)
<b>E</b>	1.15" (29.2)	1.15" (29.2)

### Right Angle Male In-Line Plug



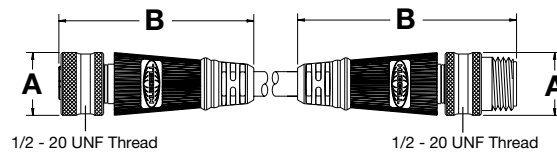
	MALE	FEMALE
<b>A</b>	0.59" (15.0)	0.59" (15.0)
<b>B</b>	1.44" (36.6)	1.44" (36.6)
<b>C</b>	2.75" (69.9)	2.75" (69.9)
<b>D</b>	0.67" (17.0)	0.67" (17.0)
<b>E</b>	1.38" (35.1)	1.38" (35.1)

### Male In-Line Plug



<b>A</b>	0.59" (15.0)
<b>B</b>	2.06" (52.3)
<b>C</b>	2.75" (69.9)

### Extension Cable



	MALE	FEMALE
<b>A</b>	0.59" (15.0)	0.59" (15.0)
<b>B</b>	2.06" (52.3)	1.83" (46.5)

### Conductor Color Code - Dual Key

Contact Number	2 Pole	3 Pole	4 Pole	5 Pole	6 Pole
1	Brown	Green	Red/Black	Red/White	Red/White
2	Blue	Red/Black	Red/White	Red	Red
3		Red/White	Red	Green	Green
4			Green	Red/Yellow	Red/Yellow
5				Red/Black	Red/Black
6					Red/Blue

### Cable Diameters By Cable Type

Number of Conductors	#22 AWG PVC	#18 AWG TPE
2	0.20" (5.1)	0.23" (5.8)
3	0.21" (5.3)	0.24" (6.09)
4	0.22" (5.7)	0.26" (6.6)
5	0.26" (6.7)	0.28" (7.1)
6	0.26" (6.5)	-

Dimensions in Inches (mm)

### Accessories

#### Dust Caps

Closure caps protect plugs and receptacles when not in use. Key style is for dual with thread of 1/2"-20 UNF.

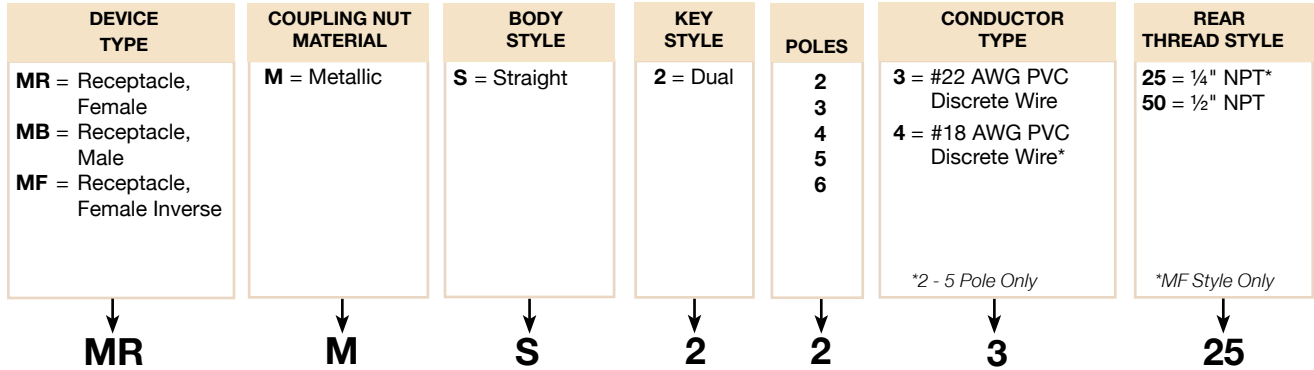
Catalog Number	
<b>MRCM2</b>	
<b>MPCM2</b>	

## Micro-Quick® Dual Key 2 - 6 Pole Receptacles

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **MRMS22325** is derived as follows:



Note: Availability of specific items may vary. Consult factory for delivery. Consult the factory for additional cable lengths or cable types.

Male Receptacle Rear Thread Style		Female Inverse Receptacles Rear Thread Style	
<b>M14 X 1</b>	<b>½" NPT</b>	<b>¼" NPT</b>	

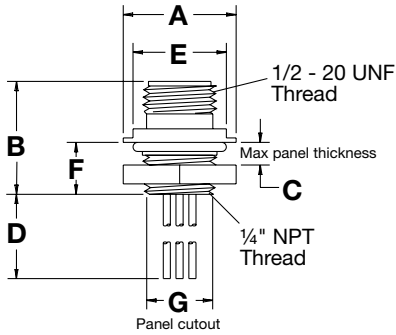
## Micro-Quick® 2 - 6 Pole Dual Key Receptacles

Catalog numbers using #22 AWG PVC cable are listed below. For #18 AWG PVC discrete wire, change the conductor type per the Hubbell Logic chart above.

Poles	Male Face Shown Female - mirror image	Female Receptacle Rear Thread Style		Male Receptacle Rear Thread Style		Female Inverse Receptacles
		¼" NPT	½" NPT	¼" NPT	½" NPT	¼" NPT
2		<b>MRMS22325</b>	<b>MRMS22350</b>	<b>MBMS22325</b>	<b>MBMS22350</b>	<b>MFMS22325</b>
3		<b>MRMS23325</b>	<b>MRMS23350</b>	<b>MBMS23325</b>	<b>MBMS23350</b>	<b>MFMS23325</b>
4		<b>MRMS24325</b>	<b>MRMS24350</b>	<b>MBMS24325</b>	<b>MBMS24350</b>	<b>MFMS24325</b>
5		<b>MRMS25325</b>	<b>MRMS25350</b>	<b>MBMS25325</b>	<b>MBMS25350</b>	<b>MFMS25325</b>
6		<b>MRMS26325</b>	<b>MRMS26350</b>	<b>MBMS26325</b>	<b>MBMS26350</b>	<b>MFMS26325</b>

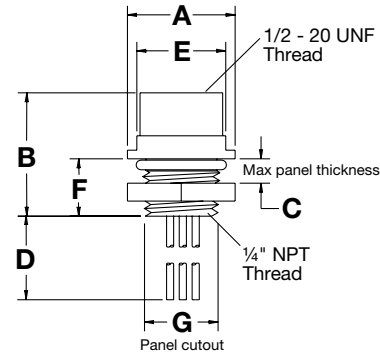
## Micro-Quick® Dual Key 2 - 6 Pole Receptacles

### 1/4" NPT Rear Thread Receptacle



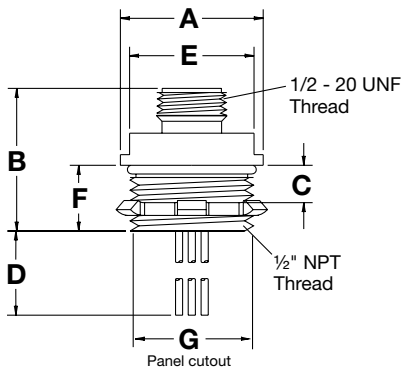
	MALE	FEMALE
A	0.75" (19.1)	0.75" (19.1)
B	0.75" (19.1)	0.86" (21.8)
C	0.10" (2.5)	0.10" (2.5)
D	12.0" (304.8)	12.0" (304.8)
E	0.62" (15.8)	0.62" (15.8)
F	0.35" (8.9)	0.38" (9.7)
G	0.56" (14.2)	0.56" (14.2)

### Female Inverse Receptacle 1/4" NPT Rear Thread



A	0.75" (19.1)
B	0.86" (21.8)
C	0.15" (3.8)
D	12.0" (304.8)
E	0.62" (15.8)
F	0.40" (10.2)
G	0.56" (14.2)

### 1/2" NPT Rear Thread Receptacle



	MALE	FEMALE
A	1.00" (25.4)	1.00" (25.4)
B	1.00" (25.4)	1.00" (25.4)
C	0.24" (6.10)	0.24" (6.10)
D	12.0" (304.8)	12.0" (304.8)
E	0.87" (22.1)	0.87" (22.1)
F	0.46" (11.7)	0.46" (11.7)
G	0.85" (21.6)	0.85" (21.6)

### Conductor Color Code - Dual Key

Contact Number	2 Pole	3 Pole	4 Pole	5 Pole	6 Pole
1	Brown	Green	Red/Black	Red/White	Red/White
2	Blue	Red/Black	Red/White	Red	Red
3		Red/White	Red	Green	Green
4			Green	Red/Yellow	Red/Yellow
5				Red/Black	Red/Black
6					Red/Blue

### Accessories

#### Dust Caps

Closure caps protect plugs and receptacles when not in use. Key style is for dual with thread of 1/2"-20 UNF.

Catalog Number	
MRCM2	
MPCM2	

Dimensions in Inches (mm)

## Features and Benefits

**IP66**  
SUITABILITY

### Micro-Quick® Field Attachable Connectors - Screw Terminal Style

#### Electrical Specifications

Voltage Rating	250V
Amperage	4A
Wire Size, Max	#18 AWG

#### Mechanical Specifications

Coupling Nut	Nickel plated brass, SST consult factory
Connector Shell	PBT
Connector Insert	Nylon
Contacts	Brass, gold plate over palladium nickel

#### Environmental Specifications

Moisture Resistance	IP66 Suitability
Operating Temperature	-40°C to 90°C



#### Housing Design

- High impact body design
- Strain relief protects terminations



#### Internal Design

- Superior contact design utilizing high performance gold over palladium nickel plating
- Coupling nut anodized aluminum, SST option consult factory
- Precision wire funnels eliminate stray strands

### 3 - 5 Pole Field Attachable Connectors

Poles	Male Face Shown Female - mirror image	Cable Range	Female Connector		Male In-Line Connector	
			Straight	Right Angle	Straight	Right Angle
3		.16"-.24" (4.1-6.1) .24"-.32" (6.1-8.1)	<b>MCMS23F7</b>	<b>MCMA23F7</b>	<b>MIMS23F7</b>	<b>MIMA23F7</b>
			<b>MCMS23F9</b>	<b>MCMA23F9</b>	<b>MIMS23F9</b>	<b>MIMA23F9</b>
4		.16"-.24" (4.1-6.1) .24"-.32" (6.1-8.1)	<b>MCMS14F7</b>	<b>MCMA14F7</b>	<b>MIMS14F7</b>	<b>MIMA14F7</b>
			<b>MCMS14F9</b>	<b>MCMA14F9</b>	<b>MIMS14F9</b>	<b>MIMA14F9</b>
5		.16"-.24" (4.1-6.1) .24"-.32" (6.1-8.1)	<b>MCMS15F7</b>	<b>MCMA15F7</b>	<b>MIMS15F7</b>	<b>MIMA15F7</b>
			<b>MCMS15F9</b>	<b>MCMA15F9</b>	<b>MIMS15F9</b>	<b>MIMA15F9</b>

#### Female, Straight



#### Female, Right Angle



#### Male In-Line, Straight



#### Male In-Line, Right Angle



Dimensions in Inches (mm)



## Features and Benefits

**IP66**  
SUITABILITY

### Micro-Quick® Field Attachable Connectors - IDC Style

Allows field installation of control connector. Insulation Displacement Contacts do not require stripped conductors, greatly speeding installation.

### Material Specifications

Housing	Polyester Elastomer, Black
Wire Guide	Nylon 6/6, Gray
Strain Relief Bushing	Neoprene, Black
Contact Materials	Copper Alloy
Contact Plating	Tin over Nickel
Coupling Nut	Zinc Alloy with Nickel Plating
O-ring	Neoprene, Black
Cable Compression Nut	Zinc Alloy with Nickel Plating

### Electrical Specifications

Catalog Suffix	IDC	IDCL
Voltage Rating	32V AC/DC	50V AC/DC
Wire Range	#22 AWG max., #24 AWG min.	#18 AWG max., #22 AWG min.
Cable Diameters	.16" to .21" (4.1 to 5.3 mm)	.22" to .32" (5.6 to 8.1 mm)
Amperage	3A	6A
Contact Res.	< 5 mΩ	< 5 mΩ



#### Housing Design

- Rugged, nickel-plated hardware, excellent corrosion and abuse resistance
- Strain relief bushing protects terminations and provides IP66 ingress protection
- Operating temperature -20°C to 110°C



#### Internal Design

- Copper alloy insulation displacement contacts
- Wire guide for virtually toolless termination

### Micro-Quick® IDC Style

Poles	Male Face Shown Female - mirror image	Cable Range	Wire Gauge	Female Connector		Male In-Line Connector	
				Straight	Right Angle	Straight	Right Angle
3		.16"-.21" (4.1-5.3) .22"-.32" (5.6-8.1)	22 - 24 18 - 22	<b>MCMS13IDC</b>	—	<b>MIMS13IDC</b>	<b>MIMA13IDC</b>
				<b>MCMS13IDCL</b>	—	<b>MIMS13IDCL</b>	—
4		.16"-.21" (4.1-5.3) .22"-.32" (5.6-8.1)	22 - 24 18 - 22	<b>MCMS14IDC</b>	<b>MCMA14IDC</b>	<b>MIMS14IDC</b>	<b>MIMA14IDC</b>
				<b>MCMS14IDCL</b>	—	<b>MIMS14IDCL</b>	—

#### Female, Straight



#### Female, Right Angle



#### Male In-Line, Straight



#### Male In-Line, Right Angle



Dimensions in Inches (mm)

## Features and Benefits

**IP66**  
SUITABILITY

### Nano-Quick® Control Connectors

- Nickel plated brass coupling nuts and receptacle shells
- Black overmold and cable
- Insulgrip connector body design
- UL Listed cable assemblies and receptacles
- Plating resists corrosion in high abuse environments
- Cable assembly resists dirt and blends with environment giving a clean look to the installation
- Third party certified for electrical, mechanical and environmental performance
- Ergonomic connector body has an industrial look
- Strong, resilient base metal ensures contacts maintain their shape and continuity over time



#### Housing Design

- Gated strain relief with graduated window sizes improves flexibility, strength and protects wire terminations; superior arc of bend control
- Operating temperature
  - PVC Cable: -20° to 105° C
  - TPE Cable: -40°C to 105° C



#### Internal Design

- Hard gold over palladium nickel contact plating; superior conductivity, extended contact life
- O-rings for moisture protection
- Anti-vibration coupling nut prevents connection from loosening under harsh vibration conditions
- Beryllium copper socket contacts ensures contacts maintain their shape and continuity

## Material Specifications

Insulator Materials	Nylon 6/6, White	Cable	#24 AWG - PVC jacket, Black, PVC conductor insulation, Copper braid - 85% coverage, Stranding 19/36
Contact Materials	Pins - Brass, Sockets - Beryllium copper		#24 AWG - TPE jacket, Black, PVC conductor insulation, Stranding - 19/36
Contact Plating	Hard gold over palladium/nickel	Strain Relief	20 pounds min per UL 2238
Overmold Material	Polyurethane, Black		
Coupling Nut, Metallic	Nickel plated brass		
Receptacle Shell	Nickel plated brass		

## Electrical Specifications

Voltage Rating	125V AC/75V DC
Amperage	3&4P=4A
Contact Resistance	≤ 5 mΩ
Isolation Resistance	≥ 1000 MΩ

## Environmental Specifications

Moisture Protection	UL Type 4, 4X, 12 and 13
Ingress Protection	IP66 Suitability
Operating Temperature	PVC Cable: -20° to 105° C TPE Cable: -40°C to 105° C
Corrosion Resistance	500 hours salt spray per MIL-STD-1344, Method 1001
Vibration Resistance	10 - 2,000 Hz @15g per MIL-STD1344, Method 2005

## Certifications

UL 2238 and UL50E, File No. E192071

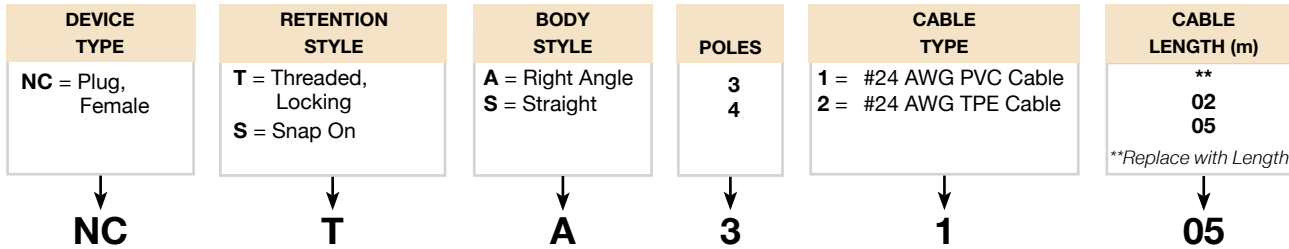
CSA Certified, C22.2 No. 182.3 and CSA C22.2 No. 94.2-07

## Nano-Quick® 3 - 4 Pole Plugs and Receptacles

Choose the appropriate configuration from the Selector below.

### Hubbell Logic Configurator

For example, catalog number **NCTA3105** is derived as follows:



Note: Availability of specific items may vary. Consult factory for delivery. Use this chart to build plugs to meet any application need. Consult the factory for additional cable lengths or cable types.

### 3 - 4 Pole Female Plugs

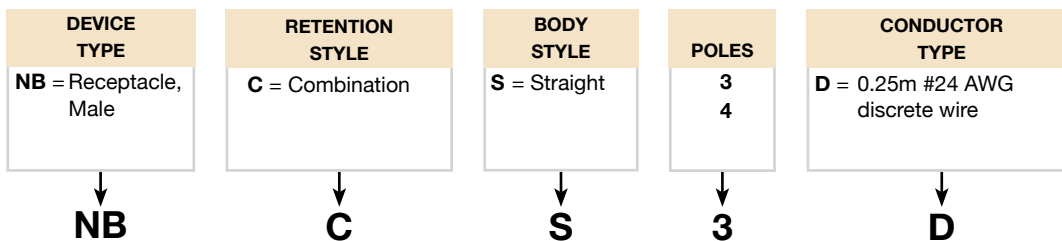
Catalog numbers using #24 AWG PVC cable are listed below. For #24 AWG TPE cable, change the cable type per the Hubbell Logic chart above.

Poles	Female Face Shown	Cable Length	Threaded, Locking		Snap Together	
			Straight	Right Angle	Straight	Right Angle
3		6.56 ft (2m) 16.40 ft (5m) All other lengths ▲	<b>NCTS3102</b>	<b>NCTA3102</b>	<b>NCSS3102</b>	<b>NCSA3102</b>
			<b>NCTS3105</b>	<b>NCTA3105</b>	<b>NCSS3105</b>	<b>NCSA3105</b>
			<b>NCTS31**</b>	<b>NCTA31**</b>	<b>NCSS31**</b>	<b>NCSA31**</b>
4		6.56 ft (2m) 16.40 ft (5m) All other lengths ▲	<b>NCTS4102</b>	<b>NCTA4102</b>	<b>NCSS4102</b>	<b>NCSA4102</b>
			<b>NCTS4105</b>	<b>NCTA4105</b>	<b>NCSS4105</b>	<b>NCSA4105</b>
			<b>NCTS41**</b>	<b>NCTA41**</b>	<b>NCSS41**</b>	<b>NCSA41**</b>

Note: ▲ Replace \*\* with length required in feet. For snap on retention style, replace "T" with "S" per the ordering chart above.  
Example: change **NCTA3105** to **NCSA3105**.

### Hubbell Logic Configurator

For example, Catalog Number **NBCS3D** is derived as follows:



### 3 - 4 Pole Male Receptacles

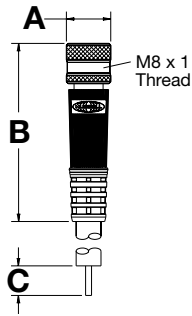
Poles	Male Face Shown	Male Receptacle Rear Thread Style
		M8 x 1
3		<b>NBCS3D</b>

Poles	Male Face Shown	Male Receptacle Rear Thread Style
		M8 x 1
4		<b>NBCS4D</b>

Note: Replace \*\* with length required in feet.

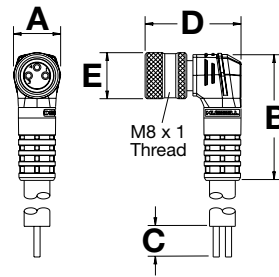
## Nano-Quick® 3 - 4 Pole Plugs and Receptacles

### Straight Female Locking Plug



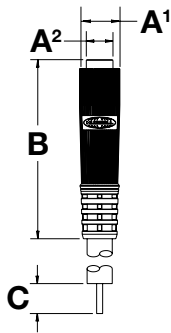
<b>A</b>	0.38" (9.7)
<b>B</b>	1.51" (38.4)
<b>C</b>	2.75" (69.9)

### Right Angle Female Locking Plug



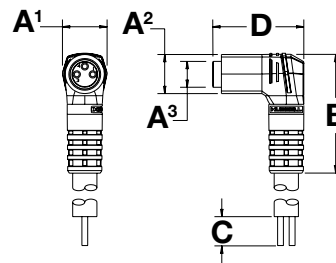
<b>A</b>	0.39" (9.9)
<b>B</b>	1.04" (26.4)
<b>C</b>	2.75" (69.9)
<b>D</b>	0.78" (19.8)
<b>E</b>	0.38" (9.7)

### Straight Female Snap Together Plug



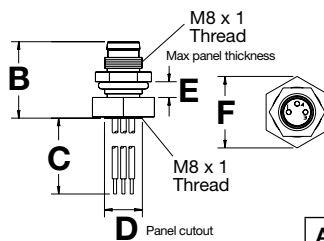
<b>A<sup>1</sup></b>	0.34" (8.6)
<b>A<sup>2</sup></b>	0.22" (5.6)
<b>B</b>	1.50" (38.1)
<b>C</b>	2.75" (69.9)

### Right Angle Female Snap Together Plug



<b>A<sup>1</sup></b>	0.39" (9.9)
<b>A<sup>2</sup></b>	0.38" (9.7)
<b>A<sup>3</sup></b>	0.22" (5.6)
<b>B</b>	1.04" (26.4)
<b>C</b>	2.75" (69.9)
<b>D</b>	0.79" (20.1)

### Male Combination Receptacle



<b>A</b>	0.31" (7.9)
<b>B</b>	0.63" (16.0)
<b>C</b>	12.0" (304.8)
<b>D</b>	0.35" (8.8)
<b>E</b>	0.80" (2.0)
<b>F</b>	0.59" (15.0)

### Cable Diameters By Cable Type

Number of Conductors	#24 AWG PVC	#24 AWG TPE
3	0.21" (5.3)	0.21" (5.3)
4	0.21" (5.3)	0.21" (5.3)

### Conductor Color Code

Contact Number	3 Pole	4 Pole
1	Brown	Brown
2	Not Used	White
3	Blue	Blue
4	Black	Black

Dimensions in Inches (mm)

# Industrial Connectivity and Control Products

## Features and Benefits

**IP66**  
SUITABILITY

### Nano-Quick® Field Attachable Connectors - IDC Style

Allows field installation of control connector. Insulation Displacement Contacts do not require stripped conductors, greatly speeding installation.

### Material Specifications

Housing	Polyester Elastomer, Black
Wire Guide	Nylon 6/6, Gray
Strain Relief Bushing	Neoprene, Black
Contact Materials	Copper Alloy
Contact Plating	Tin over Nickel
Coupling Nut	Zinc Alloy with Nickel Plating
O-ring	Neoprene, Black
Cable Compression Nut	Zinc Alloy with Nickel Plating

### Electrical Specifications

Voltage Rating	32VAC/DC
Wire Range	#22 AWG max., #24 AWG min.
Cable Diameters	.13" to .21" (3.3 to 5.3 mm)
Amperage	3A
Contact Resistance	< 5 mΩ



#### Housing Design

- Rugged, nickel-plated hardware, excellent corrosion and abuse resistance
- Strain relief bushing protects terminations and provides IP66 ingress protection
- Operating temperature -20°C to 110°C



#### Internal Design

- Copper alloy insulation displacement contacts
- Wire guide for virtually toolless termination

### Nano-Quick® IDC

Poles	Male Face Shown Female - mirror image	Cable Range	Wire Gauge	Female Connector	Male Connector
				Straight	Straight
3		.13"-.21" (3.3-5.3)	22 - 24	<b>NCTS13IDC</b>	<b>NITS13IDC</b>
4		.13"-.21" (3.3-5.3)	22 - 24	<b>NCTS14IDC</b>	<b>NITS14IDC</b>

### Female, Straight



### Male, Straight



Dimensions in Inches (mm)



## Signal-Quick® Cushioned Sensor Mounts

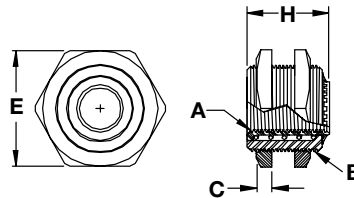
Install tubular proximity sensors with a Cushioned Sensor Mount and protect against over-travel damage. Reduces replacement expenses and downtime. Hubbell's Cushioned Sensor Mounts feature:

- Spring-loaded housing eliminates impact damage
- Reduces downtime and replacement expenses
- Reduces spare sensor inventories
- Shielded and non-shielded end caps eliminate abrasion damage
- Block style or threaded housing designs
- Anodized aluminum or stainless steel

When something out of the ordinary happens or targets over-travel, the sensor simply retracts to avoid damage. The sensor returns to its original position and the equipment continues to operate.

## Material Specifications

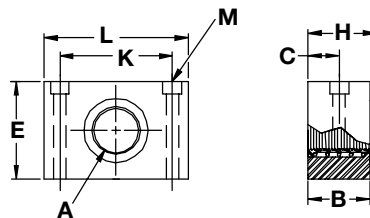
Material: Anodized aluminum housing  
Zinc-plated brass jam nuts  
CSM12LP is all Stainless Steel



**Threaded Style**

## Threaded Style

Catalog Number	A	B	C	E	H
<b>CSM8</b>	M8 x 1	M16 x 1.5	0.12" (3.1)	0.87" (22.1)	0.87" (22.1)
<b>CSM12LP</b>	M12 x 1	M18 x 1	0.16" (4.1)	0.95" (24)	0.83" (21.1)
<b>CSM18</b>	M18 x 1	M30 x 1.5	0.20" (5.1)	1.41" (35.8)	1.17" (29.7)
<b>CSM30</b>	M30 x 1.5	M47 x 1.5	0.20" (5.1)	2.01" (51)	1.47" (37.3)



**Block Style**

## Block Style

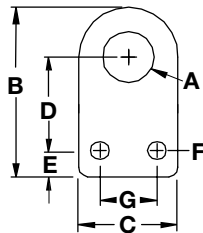
Catalog Number	A	B	C	E	H	K	L	M
<b>BCSM8</b>	M8 x 1	0.75" (19)	0.37" (9.5)	0.62" (15.8)	0.87" (22.1)	0.72" (18.4)	1.0" (25.4)	0.14" (3.6)
<b>BCSM12</b>	M12 x 1	0.75" (19)	0.37" (9.5)	1.0" (25.4)	0.87" (22.1)	0.98" (24.8)	1.5" (38.1)	0.20" (5.2)
<b>BCSM18</b>	M18 x 1	1.0" (25.4)	0.50" (12.7)	1.25" (31.7)	1.17" (29.7)	1.21" (30.7)	1.5" (38.1)	0.18" (4.6)
<b>BCSM30</b>	M30 x 1.5	1.38" (34.9)	0.68" (17.5)	2.0" (50.8)	1.47" (37.4)	2.03" (51.5)	2.5" (63.5)	0.26" (6.7)

Dimensions in Inches (mm)

## Signal-Quick® Sensor Mounting Brackets

Eliminate design time and fabrication expense. Choose the Hubbell Angle Bracket or Flat Bracket to mount any tubular proximity sensor.

- Fixed mounting patterns or multi-slotted for positioning versatility.
- Industry standard mounting footprints.
- Rapid installation.
- Immediately available from stock.
- Cost savings over “make your own”.

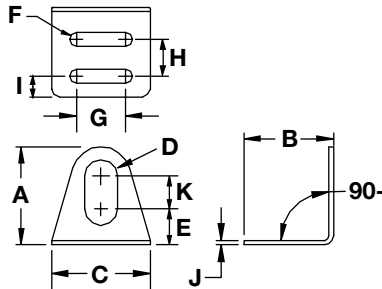


### Material Specifications

Material: Stainless Steel

### Flat Brackets

Catalog Number	A	B	C	D	E	F	G	Thickness
<b>FB12</b>	0.48" (12.1)	1.95" (49.6)	1.25" (31.8)	0.86" (21.8)	0.47" (11.9)	0.22" (5.54)	0.75" (19.1)	0.12" (3.02)
<b>FB18</b>	0.72" (18.2)	2.27" (57.6)	1.38" (34.9)	1.36" (34.6)	0.22" (5.56)	0.24" (6.05)	1.0" (25.4)	0.12" (3.02)
<b>FB30</b>	1.19" (30.1)	3.42" (86.9)	2.0" (50.8)	2.05" (52)	0.37" (9.40)	0.31" (7.94)	1.25" (31.8)	0.12" (3.02)

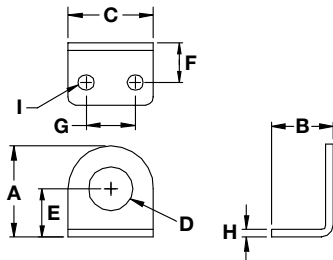


### Material Specifications

Material: Stainless steel  
Zinc-plated steel (AAB47)

### Adjustable Angle Brackets

Catalog Number	A	B	C	D	E	F	G	H	I	J	K
<b>AAB08</b>	1.0" (25.4)	1.25" (31.8)	1.25" (31.8)	0.34" (8.74)	0.31" (7.92)	0.22" (5.54)	0.62" (15.9)	0.46" (11.9)	0.28" (7.14)	0.07" (1.78)	0.38" (9.53)
<b>AAB12</b>	1.5" (38.1)	1.37" (34.8)	1.5" (38.1)	0.50" (12.7)	0.55" (13.9)	0.22" (5.54)	0.75" (19.1)	0.56" (14.3)	0.31" (7.92)	0.07" (1.78)	0.50" (12.7)
<b>AAB18</b>	2.0" (50.8)	1.37" (34.8)	1.75" (44.5)	0.72" (18.3)	0.75" (19.1)	0.22" (5.54)	1.0" (25.4)	0.56" (14.3)	0.31" (7.92)	0.07" (1.78)	0.63" (15.9)
<b>AAB22</b>	2.0" (50.8)	1.37" (34.8)	1.75" (44.5)	0.88" (22.2)	0.69" (17.4)	0.22" (5.54)	1.0" (25.4)	0.56" (14.3)	0.31" (7.92)	0.07" (1.78)	0.63" (15.9)
<b>AAB30</b>	2.5" (63.5)	1.75" (44.5)	2.25" (57.2)	1.19" (30.1)	0.91" (23)	0.28" (7.11)	1.37" (34.8)	0.81" (20.6)	0.41" (10.3)	0.09" (2.29)	0.75" (19.1)



### Material Specifications

Material: Stainless Steel

### Angle Brackets

Catalog Number	A	B	C	D	E	F	G	H	I
<b>AB12</b>	1.16" (29.3)	1.0" (25.4)	1.25" (31.8)	0.48" (12.1)	0.53" (13.5)	0.53" (13.5)	0.75" (19.1)	0.12" (3.02)	0.22" (5.6)
<b>AB18</b>	1.47" (37.3)	1.0" (25.4)	1.38" (34.9)	0.48" (12.1)	0.53" (13.5)	0.78" (19.8)	1.0" (25.4)	1.12" (3.02)	0.24" (6.0)
<b>AB30</b>	2.13" (54.0)	1.50" (38.1)	2.00" (50.8)	1.19" (30.1)	1.13" (28.7)	1.13" (28.7)	1.25" (31.8)	0.12" (3.02)	0.31" (7.9)

Dimensions in Inches (mm)

## Signal-Quick® End Caps

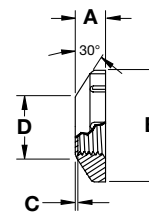
- Use alone or with Cushioned Sensor Mount.
- Beveled edge deflects lateral impacts.
- Reduces and or eliminates abrasion damage.
- Reduces downtime and sensor replacement expenses.



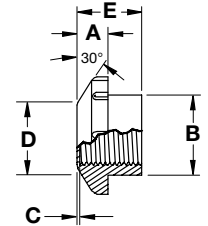
## Specifications

Material: Delrin (Non-Shielded)  
Glass-filled Nylon (Shielded)  
Polypropylene (EC30)

### Shielded



### Non-Shielded



## End Caps

Shielded	Style	A	B	C	D	E	Thread
<b>EC08</b>	8mm	0.21" (5.28)	0.60" (15.2)	0.015" (.38)	0.25" (6.45)	N/A	M8 x 1
<b>EC12</b>	12mm	0.25" (6.35)	0.96" (24.4)	0.015" (.38)	0.45" (11.4)	N/A	M12 x 1
<b>EC18</b>	18mm	0.33" (8.38)	1.23" (31.3)	0.03" (.76)	0.73" (17.5)	N/A	M18 x 1
<b>EC30</b>	30mm	0.30" (7.62)	1.72" (43.7)	0.03" (.76)	1.13" (28.6)	N/A	M30 x 1
Non-Shielded							
<b>EC08N</b>	8mm	0.20" (5.08)	0.57" (14.5)	0.015" (.38)	0.25" (6.45)	0.37" (9.50)	M8 x 2
<b>EC12N</b>	12mm	0.25" (6.35)	0.90" (22.9)	0.03" (.76)	0.45" (11.4)	0.68" (17.3)	M12 x 1
<b>EC18N</b>	18mm	0.33" (8.38)	1.34" (34.0)	0.025" (.64)	0.67" (17.0)	0.70" (17.8)	M18 x 1
<b>EC30N</b>	30mm	0.31" (7.87)	1.75" (44.5)	0.04" (1.02)	1.15" (29.2)	0.90" (22.9)	M30 x 1

Note: The wear surface thickness (Dimension C) does not reduce a sensor's sensing range, but will consume an equal amount of the gap required between the sensor and target.

## Signal-Quick® Block Mounts

Bond to sensor face with any epoxy.

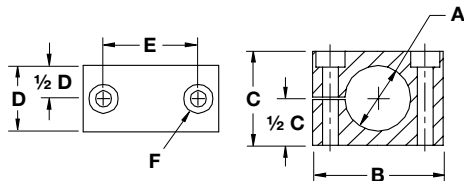
- Use when threads are inaccessible.
- Reduces and/or eliminates abrasion damage.
- Reduces downtime and sensor replacement expenses.



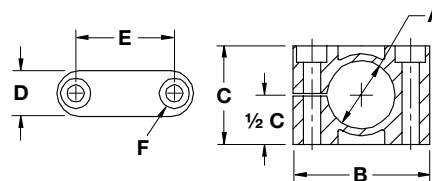
## Specifications

Material: Glass-filled Nylon  
Anodized aluminum

### Metallic



### Nylon



## Block Mounts

Metallic	Style	A	B	C	D	E	F
<b>BM08M</b>	8mm	0.32" (8.05)	0.62" (15.8)	1.0" (25.4)	0.75" (19.0)	0.72" (18.4)	0.14" (3.58)
<b>BM12M</b>	12mm	0.48" (12.1)	1.0" (25.4)	1.5" (38.1)	0.75" (19.0)	0.98" (24.9)	0.20" (5.08)
<b>BM18M</b>	18mm	0.71" (18.1)	1.25" (31.7)	1.5" (38.1)	1.0" (25.4)	1.21" (30.7)	0.18" (4.58)
<b>BM30M</b>	30mm	1.19" (30.1)	2.0" (50.8)	2.5" (63.5)	1.38" (34.9)	2.03" (51.5)	0.26" (6.73)
Nylon							
<b>BM08N</b>	8mm	0.32" (8.05)	1.06" (27)	0.63" (16)	0.47" (12)	0.67" (17)	0.18" (4.5)
<b>BM12N</b>	12mm	0.48" (12.1)	1.26" (32)	0.79" (20)	0.47" (12)	0.87" (22)	0.18" (4.5)
<b>BM16N</b>	16mm	0.63" (16.1)	1.42" (36)	1.02" (26)	0.47" (12)	1.02" (26)	0.18" (4.5)
<b>BM18N</b>	18mm	0.71" (18.1)	1.42" (36)	1.02" (26)	0.47" (12)	1.02" (26)	0.18" (4.5)
<b>BM20N</b>	20mm	0.79" (20.1)	1.77" (45)	1.18" (30)	0.59" (15)	1.26" (32)	0.22" (5.5)
<b>BM22N</b>	22mm	0.87" (22.1)	1.77" (45)	1.18" (30)	0.59" (15)	1.26" (32)	0.22" (5.5)
<b>BM30N</b>	30mm	1.18" (30.1)	2.17" (55)	1.50" (38)	0.71" (18)	1.65" (42)	0.22" (5.5)

Dimensions in Inches (mm)

## Signal-Quick® Universal Aiming Brackets

Attach limit switch style (30mm threaded base) or threaded barrel photoelectric and ultrasonic sensors. Achieve secure mounting quickly and with ease.

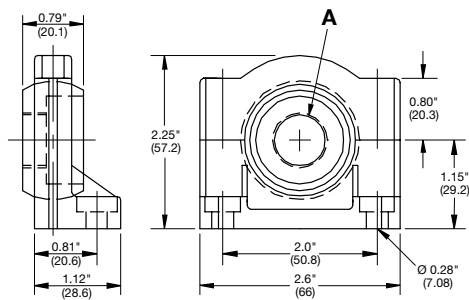
- Swivel action for aiming simplicity.
- Durable glass-filled nylon construction.
- Regular or extended base models.
- Sizes for 12, 18 and 30mm threaded sensors.



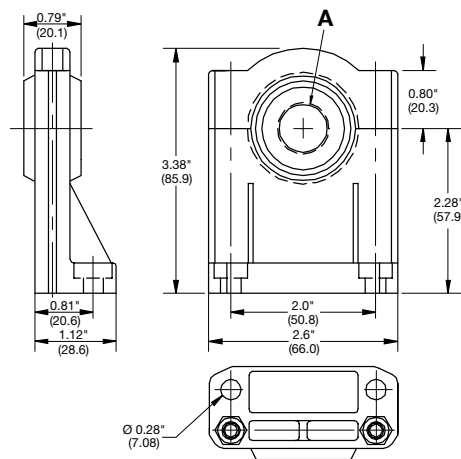
## Material Specifications

Material: Glass-filled Nylon

### Bracket, Standard



### Bracket, Extended



## Universal Aiming Brackets

Catalog Number	Style	Description	Thread
<b>UB12</b>	12mm	Bracket	M12 x 1
<b>UB12E</b>	12mm	Bracket, Extended Base	M12 x 1
<b>UB18</b>	18mm	Bracket	M18 x 1
<b>UB18E</b>	18mm	Bracket, Extended Base	M18 x 1
<b>UB30</b>	30mm	Bracket	M30 x 1.5
<b>UB30E</b>	30mm	Bracket, Extended Base	M30 x 1.5

Dimensions in Inches (mm)

## CableTrak® Hose and Cable Carrier System

The design of CableTrak carriers provides easy access to components during installation and repair. The track's flip top design allows the installer to lay cable and hose components directly into the track instead of pulling them through the length of the track. Hubbell CableTrak carriers can be ordered as assembled kits with brackets or by the foot without brackets. The final length of the track is easily customized by adding or removing sections of track or individual links with a flat head screwdriver.

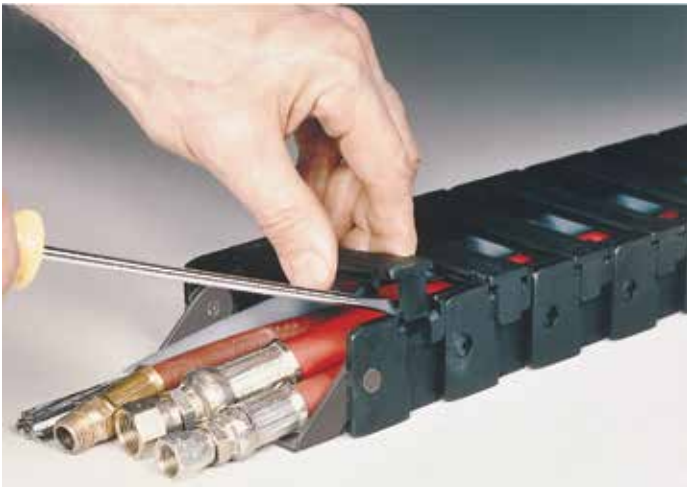


## CableTrak® Installation

1. Unlock Tab.
2. Locking tabs secure the retaining bar into place.  
To unlock tabs, slide a flat head screwdriver under the tab and release it with a twisting motion.

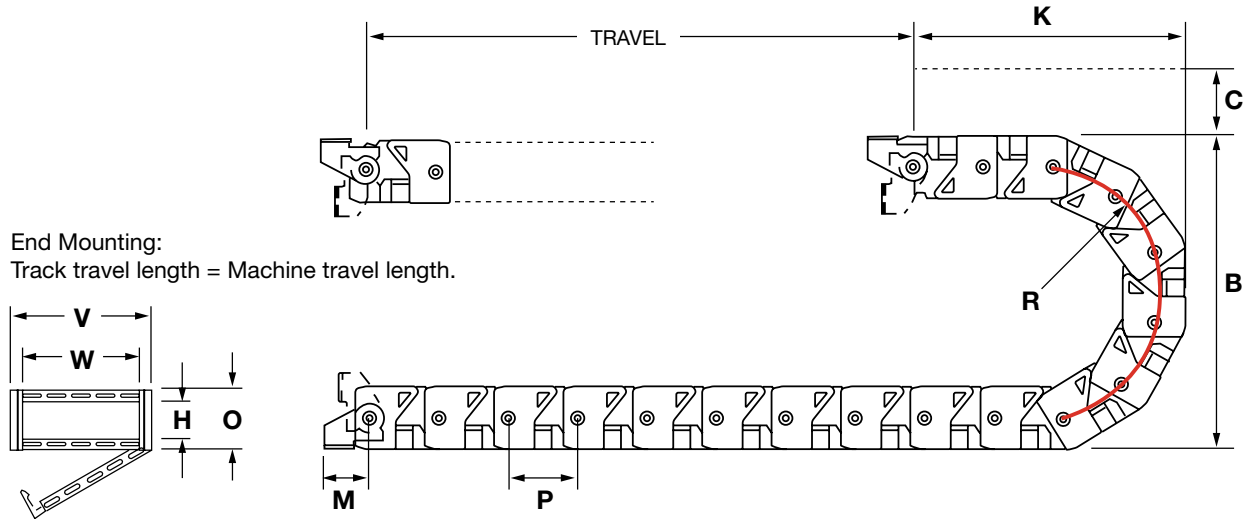
## Access/Install Cables and Hoses

3. Easy access is important, especially for pre-assembled cable/hose sets involving large O.D. plugs, receptacles, and couplings.
4. Lock Tab.
5. To re-secure retaining bars, engage the hinge and snap the locking tab into place.





## CableTrak® Kits



### CableTrak® Kit with Brackets

Catalog Number	Track Length (ft)	W Inner Width	H Inner Height	A Max Hose/Cab O.D.	B Max Component Width	V Outer Width	O Outer Height	R Bend Radius	B Bend Height	C Clearance	K Min Brkt to Bend	M Brkt to Pivot	P Pitch	L* Curve Length (ft)
HCT10114K**	4.0'	0.59"	0.75"	0.286"	0.531"	1.03"	1.00"	1.44"	3.86"	2.00"	5.68"	1.33"	1.250"	1.000'
HCT10219K**	4.0'	1.00"	0.75"	0.382"	0.900"	1.44"	1.00"	1.91"	4.82"	2.00"	5.41"	1.33"	1.250"	1.000'
HCT16119K	4.0'	1.50"	1.00"	0.382"	1.350"	2.12"	1.62"	1.91"	5.44"	3.00"	5.72"	1.19"	1.812"	1.000'
HCT16134K	4.5'	1.50"	1.00"	0.688"	1.350"	2.12"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT16219K	4.0'	2.28"	1.00"	0.328"	2.052"	2.91"	1.62"	1.91"	5.44"	3.00"	5.72"	1.19"	1.812"	1.000'
HCT16234K	4.5'	2.28"	1.00"	0.688"	2.052"	2.91"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT16334K	4.5'	3.08"	1.00"	0.688"	2.772"	3.70"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT16434K	4.5'	4.06"	1.00"	0.688"	3.654"	4.69"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT25134K	4.5'	2.60"	1.75"	0.680"	2.340"	3.70"	2.50"	3.40"	9.30"	3.00"	8.31"	1.75"	2.500"	1.500'
HCT25234K	4.5'	4.25"	1.75"	0.680"	3.825"	5.36"	2.50"	3.40"	9.30"	3.00"	8.31"	1.75"	2.500"	1.500'
HCT25247K	5.0'	4.25"	1.75"	0.956"	3.825"	5.36"	2.50"	4.78"	12.06"	3.00"	10.52"	1.75"	2.500"	2.000'
HCT25347K	5.0'	6.60"	1.75"	0.956"	5.940"	7.70"	2.50"	4.78"	12.06"	3.00"	10.52"	1.75"	2.500"	2.000'

### CableTrak® Kit without Brackets

Catalog Number	Track Length (ft)	W Inner Width	H Inner Height	A Max Hose/Cab O.D.	B Max Component Width	V Outer Width	O Outer Height	R Bend Radius	B Bend Height	C Clearance	P Pitch	L* Curve Length (ft)
HCT101141**	1.0'	0.59"	0.75"	0.286"	0.531"	1.03"	1.00"	1.44"	3.86"	2.00"	1.250"	1.000'
HCT102191**	1.0'	1.00"	0.75"	0.382"	0.900"	1.44"	1.00"	1.91"	4.82"	2.00"	1.250"	1.000'
HCT161191	1.0'	1.50"	1.00"	0.382"	1.350"	2.12"	1.62"	1.91"	5.44"	3.00"	1.812"	1.000'
HCT161341	1.0'	1.50"	1.00"	0.688"	1.350"	2.12"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT162191	1.0'	2.28"	1.00"	0.328"	2.052"	2.91"	1.62"	1.91"	5.44"	3.00"	1.812"	1.000'
HCT162341	1.0'	2.28"	1.00"	0.688"	2.052"	2.91"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT163341	1.0'	3.08"	1.00"	0.688"	2.772"	3.70"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT164341	1.0'	4.06"	1.00"	0.688"	3.654"	4.69"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT251341	1.0'	2.60"	1.75"	0.680"	2.340"	3.70"	2.50"	3.40"	9.30"	3.00"	2.500"	1.500'
HCT252341	1.0'	4.25"	1.75"	0.680"	3.825"	5.36"	2.50"	3.40"	9.30"	3.00"	2.500"	1.500'
HCT252471	1.0'	4.25"	1.75"	0.956"	3.825"	5.36"	2.50"	4.78"	12.06"	3.00"	2.500"	2.000'
HCT253471	1.0'	6.60"	1.75"	0.956"	5.940"	7.70"	2.50"	4.78"	12.06"	3.00"	2.500"	2.000'

Note: \*L = Minimum length in feet to form CableTrak curve.

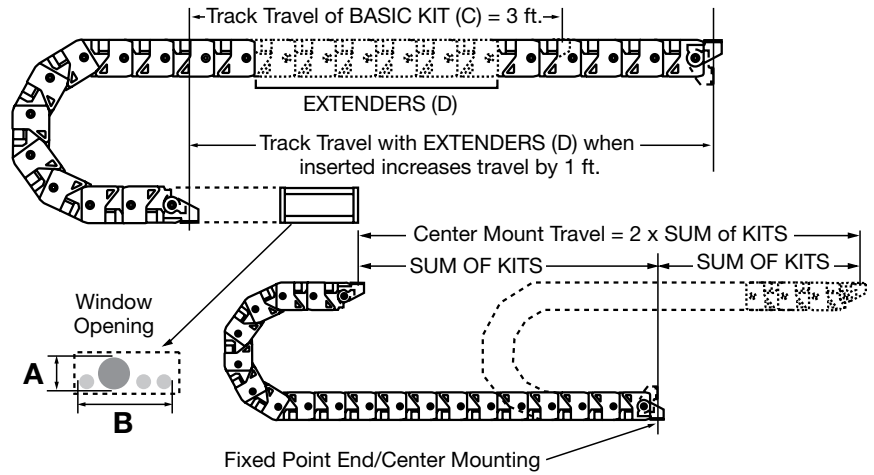
\*\*These models do not have a flip top design and do not accept separators due to their small size.

Dimensions in Inches (mm)

# Industrial Connectivity and Control Products

## CableTrak® Accessories

**Center Mounting:** Mounting the fixed track end in the center of the machine travel allows the track to travel beyond the fixed end. Center mounting effectively doubles the travel distance of the track requiring half the track length of an end mounted application.



## Calculating

Center Mount (Stationary bracket mounted in center of travel range):  $\text{Track Length} = (\text{MT}/2) + L$   
 End Mount (Stationary bracket mounted off center of travel range):  $\text{Track Length} = (\text{MT}/2) + L + \text{offset from center in feet}$   
 MT = Total machine travel distance in feet  
 L = Length of track taken up by the bend radius

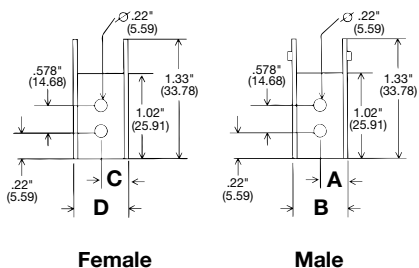
## Customizing Track Length

Hubbell CableTrak is easily customized by adding or subtracting links to the track. CableTrak kits provide 4 to 5 feet of track with brackets pre-installed. Track length can be increased by installing the required number of extenders to reach the required length. To further tune the length of track, individual links can be added or removed. To determine the number of links to add or remove, divide the length in inches to be added or subtracted by the pitch of the track and round up.

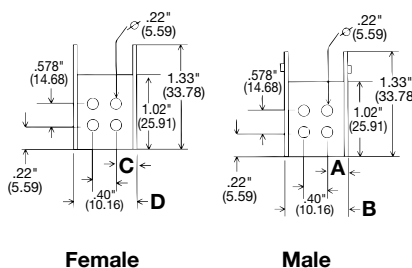
## CableTrak® Accessories

Bracket Kits	For Use With	A	B	C	D	E	F	G	H
<b>HCTBK101</b>	HCT101 Series	.40" (10.2)	.81" (20.6)	.47" (12.0)	.94" (23.9)	–	–	–	–
<b>HCTBK102</b>	HCT102 Series	.44" (11.2)	1.22" (31.0)	.44" (11.2)	1.35" (34.3)	–	–	–	–
<b>HCTBK161</b>	HCT161 Series	.99" (25.2)	1.97" (50.1)	.87" (22.1)	1.84" (46.7)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
<b>HCTBK162</b>	HCT162 Series	1.78" (45.2)	2.75" (69.9)	1.65" (41.9)	2.63" (66.8)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
<b>HCTBK163</b>	HCT163 Series	2.57" (65.3)	3.55" (90.2)	2.44" (62.0)	3.42" (86.9)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
<b>HCTBK164</b>	HCT164 Series	3.56" (90.4)	4.53" (115.1)	3.47" (88.1)	4.41" (112.0)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
<b>HCTBK251</b>	HCT251 Series	2.08" (52.8)	3.21" (81.5)	1.80" (45.7)	3.03" (77.0)	1.75" (44.5)	.344" (8.7)	1.00" (25.4)	1.25" (31.8)
<b>HCTBK252</b>	HCT252 Series	3.74" (95.0)	4.87" (123.7)	3.46" (87.9)	4.69" (119.1)	1.75" (44.5)	.344" (8.7)	1.00" (25.4)	1.25" (31.8)
<b>HCTBK253</b>	HCT253 Series	6.08" (154.4)	7.21" (183.1)	5.80" (147.3)	7.03" (178.6)	1.75" (44.5)	.344" (8.7)	1.00" (25.4)	1.25" (31.8)
Separators	For Use With	A	B	C	D	E	F		
<b>HCTSP16PK12</b>	HCT16 Series	1.24" (31.5)	.82" (20.8)	.94" (23.9)	.27" (6.9)	.14" (3.6)	.50" (12.7)		
<b>HCTSP25PK12</b>	HCT25 Series	2.03" (51.6)	1.00" (25.4)	1.19" (30.2)	.35" (8.9)	.15" (3.8)	.62" (15.8)		

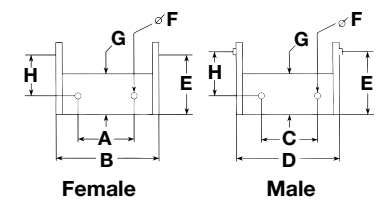
## HCTBK101 – Brackets



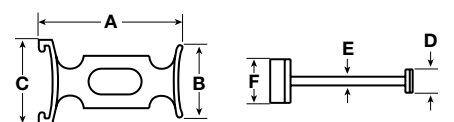
## HCTBK102 – Brackets



## HCTBK161 – HCTGK253 Brackets



## Separators

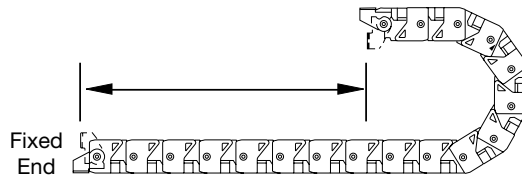
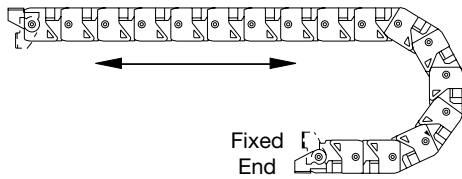


Dimensions in Inches (mm)

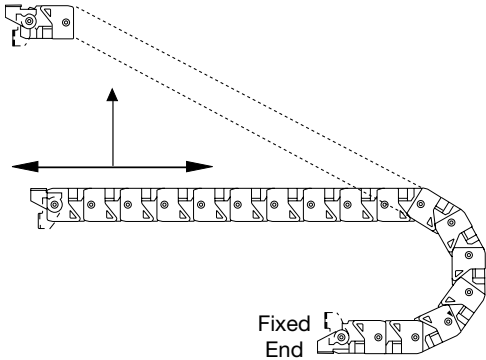
# Industrial Connectivity and Control Products

## CableTrak® System Mounting Options

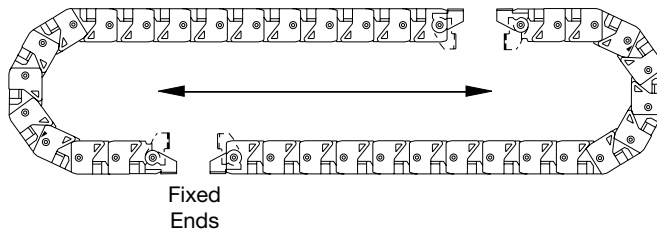
### Horizontal Travel



### Combination Horizontal & Vertical Travel

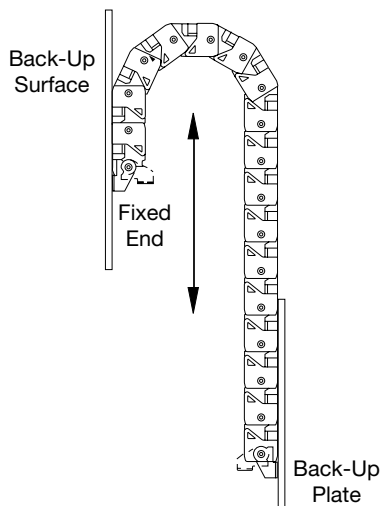


### Opposed Travel

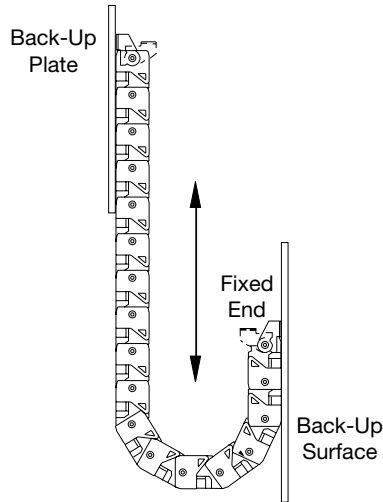


### Vertical Travel

#### Curve Up



#### Curve Down



### Specifications

Material	Fiberglass reinforced nylon.
Operating Temperature	Continuous +20°F to +100°F (-7°C to 38°C). Intermittent* -40°F to +220°F (-40°C to 104°C).
Maximum Operating Speed	600 FPM (feet per minute), 180 MPM (meters per minute). Operating speed is based on short lengths that are self supported (up to 9ft.).
Maximum Unsupported Travel Distance	HCT16 Series without sag 9 ft. (2.8 m) with sag 10.5 ft. (3.2 m). HCT25 Series without sag 13.5 ft. (4.1 m) with sag 17 ft. (5.2 m).
Applications	Machine tool, robotic automation, material handling.

Note: \*Intermittent refers to the operating of the product outside the normal (continuous operating) temperature range momentarily before returning back to the normal range.

## DIN Rail Utility Box

Hubbell's DIN Rail Utility Box offers a labor saving way to provide utility power to any control cabinet. Installing the DIN Rail Utility Box is as easy as snapping the box onto a 35mm DIN Rail and connecting the line, neutral and ground wires to the terminal block. Utility power for fans, lights, laptop computers, testers or any other power requirement. If load limiting is a concern, Hubbell's "CB" version comes with a 5 Amp circuit breaker that provides over-current protection to make sure that large loads are not drawn from the DIN Rail Utility Box. All Hubbell DIN Rail Utility Boxes may be mounted either vertically or horizontally on the DIN Rail; the "H" version comes with the terminal block mounted for easy wiring when the DIN Rail Utility Box is mounted horizontally.



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP

### Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	<b>DRUB15</b>	<b>DRUB20</b>
Complete unit, horizontal mount.	Gray	<b>DRUB15H</b>	-
Complete unit with 5A circuit breaker.	Gray	<b>DRUB15CB5</b>	-
Complete unit with 5A circuit breaker, horizontal.	Gray	<b>DRUB15HCB5</b>	-
Complete unit with aux.	Gray	-	<b>DRUB20AC</b>
Complete unit with aux and 5A circuit breaker.	Gray	-	<b>DRUB20ACCB5</b>
Complete unit with NEMA® 6-20R duplex (250V).	Gray	-	<b>DRUB5462*</b>

### GFCI Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	<b>DRUBGFI15</b>	<b>DRUBGFI20</b>
Complete unit, horizontal.	Gray	<b>DRUBGFI15H</b>	-
Complete unit with 5A circuit breaker.	Gray	<b>DRUBGFI15CB5</b>	-
Complete unit with 5A circuit breaker, horizontal.	Gray	<b>DRUBGFI15HCB5</b>	-
Complete unit with aux GFCI contacts.	Gray	<b>DRUBGFI15AC</b>	<b>DRUBGFI20AC</b>
Complete unit, faceless with aux GFCI contacts.	Gray	-	<b>DRUBGFI20BFAC</b>

### TVSS Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	<b>DRUBTVSS15</b>	-
Complete unit with aux contacts.	Gray	<b>DRUBTVSS15AC</b>	-

### Isolated Ground<sup>Δ</sup> Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	<b>DRUBIG15</b>	-

### Toggle Switch Unit

Description	Color	Catalog Number	
Complete unit with HBL1221.	Gray	<b>DRUB1221AC</b>	
Complete unit with 15A 125V SW/REC.	Gray	<b>DRUB6404</b>	

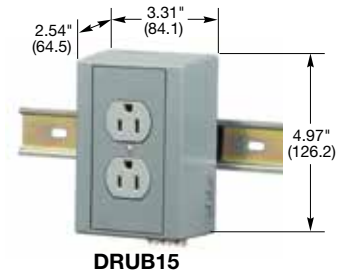
### DIN Rail Utility Box Components

Description	Color	Catalog Number	
Pre-wired kit without circuit breaker.	Gray	<b>DRUBKIT</b>	
Pre-wired kit with circuit breaker.	Gray	<b>DRUBKITCB5</b>	
Pre-wired kit with aux.	Gray	<b>DRUBKITAC</b>	
Pre-wired kit with circuit breaker and aux.	Gray	<b>DRUBKITACCB5</b>	
Communications kit (unloaded).	Gray	<b>HIDRUBKIT</b>	
(For use with Network Wiring frames in section W).			
Switch plate only.	Gray	<b>KP1GY**</b>	
Rectangular opening plate only.	Gray	<b>KP26GY**</b>	
1.60 in. opening plate only.	Gray	<b>KP720GY**</b>	
1.40 in. opening plate only.	Gray	<b>KP7GY**</b>	
Duplex receptacle plate only.	Gray	<b>KP8GY**</b>	

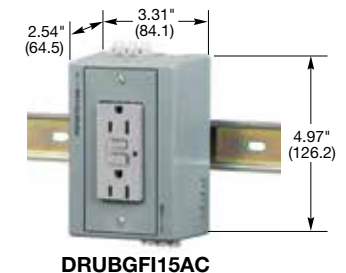
Note: <sup>Δ</sup>See section M for additional information on isolated ground devices.

\*DRUB5462 configuration not pictured.

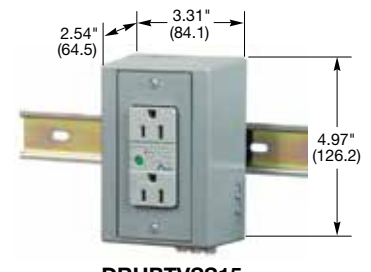
\*\*UL Listed, CSA Certified.



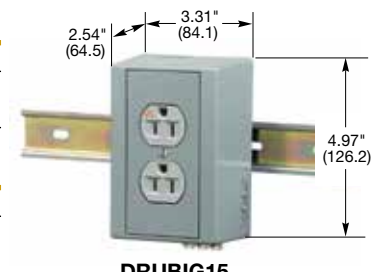
**DRUB15**



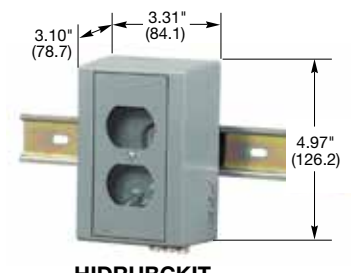
**DRUBGFI15AC**



**DRUBTVSS15**



**DRUBIG15**



**HIDRUBKIT**

Dimensions in Inches (mm)

NEMA® is a registered trademark of the National Electrical Manufacturers Association.

## Features and Benefits

**IP66**  
SUITABILITY

**NFPA 70E Compliant**

### PANEL-SAFE® Power and Data

An arc flash is a short circuit that travels through air from one live circuit to another. Problems including gaps in insulation, dust or corrosion on the surface of a conductor, or even use of substandard components can cause a serious safety hazards and equipment failures. Arc flash incidents can be extremely costly to a business and can result in serious or even fatal burns, as well as damage to eyesight. Hubbell PANEL-SAFE® provides through door access to live electrical components without having to open the enclosure.

- Available in Type 4, 12 and 4X versions with protective clear cover
- Provides overcurrent protection for both power and data access ports
- Ensures safety with finger-safe contacts and Hubbell GFCI functionality



Available in  
**NEMA TYPE 4, 12 and  
NEMA TYPE 4X Versions!**



#### Housing Design

- Rugged, nickel-plated hardware, excellent corrosion and abuse resistance
- Protective clear cover
- Operating temperature -20°C to 110°C



#### Internal Design

- Hubbell GFCI with functionality indicator
- Cat. 5e Ethernet access\*
- Overcurrent protection



#### Housing Design

- Locking Hasp accepts 5/32" padlock
- Supplemental "Tool" entry screw closure



#### Internal Design

- Additional convenience outlet on GFCI versions
- Finger-safe contacts
- Stainless steel snap latch

Note: \*Additional computer interfaces and PLC connections available upon request.

## Specifications

Electrical	GFCI - conforms to UL 943 2006 requirement In-Cabinet Receptacle - GFCI protected Data Jack - Cat. 5e Circuit Breaker - 3A
Mechanical	Cover - Clear Polycarbonate (UV Rated) Housing - Cast Aluminum Finish - Powder Coat Latch - Stainless steel
Environmental	Enclosure - NEMA Type 4, 12 and NEMA Type 4X
Certification	UL Recognized CSA Certified

## Application





## PANEL-SAFE® Power Only

Description	NEMA TYPE 4	NEMA TYPE 4X
20A 125V GFCI with In-Cabinet Receptacle.	<b>PR20</b>	—



**PR20**

## PANEL-SAFE® Data Only

Description	NEMA TYPE 4	NEMA TYPE 4X
Cat. 5e Ethernet Access only.	<b>P5E</b>	<b>P4X5E</b>
DB9 Interface Connector only.	<b>PDB9</b>	—
PANEL-SAFE Data Port with DB9 Connector.	<b>PDB9MF</b>	—
DH + Combo (DB9/8M Din) and Cat. 5e Ethernet.	<b>PDH5E</b>	—
PANEL-SAFE Data Port, (2) USB, 3 ft. Cable.	—	<b>P4XUSBA2C3</b>



**P5E**

## PANEL-SAFE® Power and Data

Description	NEMA TYPE 4	NEMA TYPE 4X
20A 125V GFCI with In-Cabinet Receptacle and Cat. 5e Ethernet Access.	<b>PR205E</b>	<b>PR4X205E</b>
20A 125V GFCI with In-Cabinet Receptacle, Cat. 5e Ethernet Access and 3A Circuit Breaker.	<b>PR205EB</b>	<b>PR4X205EB</b>
PANEL-SAFE with 20A GFCI and Cat.5e, DB9 and 3A Circuit Breaker.	<b>PR205EDB9B</b>	—
PANEL-SAFE with 20A GFCI and Cat.5e, (1) 3A USB.	<b>PR205EUSBA</b>	—
PANEL-SAFE with 20A GFCI and Cat.5e, (2) 3A USB.	<b>PR205EUSBA2</b>	—
PANEL-SAFE Data Access Port.	<b>PR205EUSBA2VGA</b>	—
20A 125V GFCI Power and Cat. 5e, DB9 and 3A Circuit Breaker.	<b>PR205EDB9MFB</b>	—
20A 125V GFCI Power and Cat. 5e Ethernet, DH + Combo (DB9/8M Din).	<b>P20DH5E</b>	—
PANEL-SAFE with 20A GFCI and Cat.5/DB9.	<b>P205EDB9</b>	—
15A 125V Power and Cat. 5e Ethernet Access.	<b>P155E</b>	<b>P4X155E</b>
15A 125V Power, Cat. 5e Ethernet Access and 3A Circuit Breaker.	<b>P155EB</b>	<b>P4X155EB</b>
15A 125V Power and (2) Cat. 5e Ethernet Access.	<b>P155E2</b>	—
15A 125V Power, Cat.5e and (1) 3A USB.	<b>P155EUSB</b>	—
15A 120V AC Power, NEMA 12/4, DB9 M/F, 10 ft. Cable.	<b>P15DB9MFC10</b>	—
15A 125V Power and DH485 Interface (RJ-45F to RJ-45M, 10 ft. Cable).	<b>P15DH485C10</b>	—
15A 125V Power and Micrologix 8M Din/F to 8M Din/M, 10 ft. Cable.	<b>P15ML8F8MC10</b>	—



**PR205E**



**PR205EB**



**P155E**



**P155EB**

**Additional computer interfaces, PLC connections and configurations available upon request. Consult factory for catalog number and availability.**

## Features and Benefits

### HI-Impact Industrial Ethernet Connectors

Hubbell's Industrial Ethernet System provides leading edge Category 5e and 6 network transmission performance suitable for industrial and other harsh environments. This system incorporates the use of our standard data connectivity jacks which feature our keystone latching mechanism, in a rugged sealed housing providing IP67 rated protection.

Extend your LAN to include automation equipment and manufacturing or process control equipment. Utilize the Hubbell system to provide added protection in harsh environments such as convention centers, food processing plants, outdoor billboards and display screens, medical and other environments which require added protection from moisture, corrosion, dust-debris, vibration and chemicals.



#### Housing Design

- Housing made from high impact polymer
- O-rings for moisture protection
- Sealed connection is IP67 rated



#### Internal Design

- Category 6 and 5e component connectors
- Standard Hubbell Keystone latching system

### Industrial Ethernet Connectors

Description	Cat. 5e	Cat. 6	Cat. 5e Inline Coupler	Cat. 6 Inline Coupler
Connector	<b>HI5E</b>	<b>HI6</b>	<b>HI5EC</b>	<b>HI6C</b>

### Industrial Ethernet Patch Cords and Plugs

Description	Catalog Number
HI-Impact RJ-45 to standard RJ-45.	<b>HI6xxAE</b>
HI-Impact RJ-45 on both ends.	<b>HI6xxEE</b>
Standard RJ-45 on both ends.	<b>HI6xxAA</b>

Note: Substitute "xx" with 03, 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 to indicate length in feet.

### Coupler Housing and Connector Cap

Description	Catalog Number
HI-Impact coupler housing is a perfect solution for temporary and flexible work areas where single port drops are needed. Add any HI-Impact connector to support your application.	<b>HICH</b>
Connector Cap	<b>HIC</b>

### HI-Impact Wallplates

Description	1-Gang 1-Port Opening	1-Gang 2-Port Openings	2-Gang 2-Port Openings	2-Gang 4-Port Openings
Stainless steel wallplate.	<b>HISF11</b>	<b>HISF12</b>	<b>HISF22</b>	<b>HISF24</b>

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

### Environmental Specifications

Ingress Protection: NEMA TYPE 4X (connectors). IP67 and IP66 (dust/water). IP55 (plates).  
 Corrosion: Resistant to most common chemicals, oils and cleaning agents.  
 HI-Impact Housing: UV resistant.  
 Temperature Range: TIA/EIA-568-B.2 -25°C to 70°C.

### Material

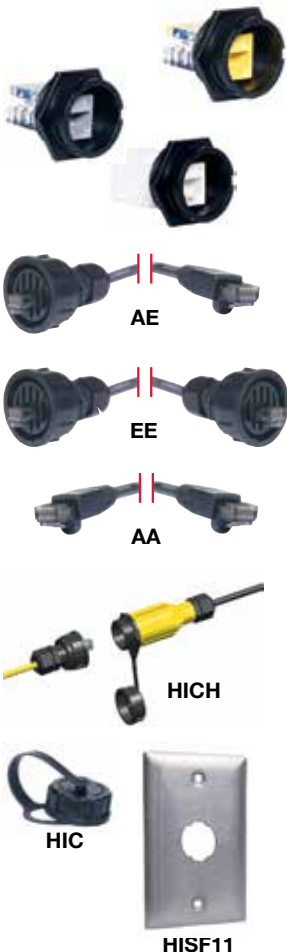
HI-Impact Housing: Valox®, UL 94V-0.  
 Nose Contacts: Beryllium copper with a minimum of 50 micro-inch gold plating over nickel under plating.

### Mechanical

Vibration  
 Frequency Range: 10-500Hz.  
 Acceleration: 5g (operational).  
 Mating Cycles: 750 minimum.  
 UL 1863 compliant.

### Electrical

ANSI/TIA/EIA-568-B.2-1 (Cat. 6 and 5e).  
 Supports TIA-1005 Industrial Telecommunications Infrastructure.



# SECTION J

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Weatherproof Reels and Industrial Power Cord Reels



Industrial and Commercial Lighted Cord Reels



Air/Water Hose Reels and Static Discharge Reels



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## Features and Benefits

### Weatherproof Reels

- Powder coated, solid steel construction
- Multi-position roller guide can be mounted in four different positions
- Ratchet lock can be disengaged in field for constant tension application
- UL Type 4X enclosure protects spring motor, junction box, slip ring assembly and cable entrance from hosedown or corrosion
- Optional pivot base allows 340° rotation of reel and increases range of cable to nearly any direction



**HBL501242W**  
with **HBL16PB**



**HBL501242W**  
with **HBL16PB**

### Weatherproof Cable Reels, 50 Ft. (15.2m)

Description	Cable Type	Amps	Volts AC	Weight Lbs. (kg)	Catalog Number
14" weatherproof reel.	#14/3 SOW-A	15	600	55 (24.9)	<b>HBL501431W*</b>
16" weatherproof reel.	#12/3 SOW-A	20	600	80 (36.3)	<b>HBL501232W*</b>
16" weatherproof reel, (white reel housing).	#12/3 SOW-A	20	600	80 (36.3)	<b>HBL501232WM1*</b>
16" weatherproof reel.	#12/4 SOW-A	16	600	86 (39.0)	<b>HBL501242W*</b>
16" weatherproof reel.	#10/3 SOW-A	25	600	86 (39.0)	<b>HBL501032W*</b>
16" weatherproof reel, (white reel housing).	#10/3 SOW-A	25	600	86 (39.0)	<b>HBL501032WM1*</b>
16" weatherproof reel.	#10/4 SOW-A	20	600	92 (41.7)	<b>HBL501042W*</b>

Note: \*All weatherproof cable reels are supplied with wire leads and 3/4" NPT hub feed. Power supply cable not supplied.



**HBL14PB**

### Accessories

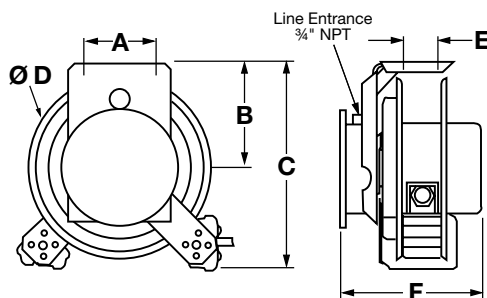
Description	Weight Lbs. (kg)	Description
14" pivot base.	5 (2.3)	<b>HBL14PB</b>
16" pivot base.	13 (5.9)	<b>HBL16PB</b>
Replacement stop.	.2 (.09)	<b>HBLWPBS</b>

### Specifications

Listing/Certification	UL 355 and CSA, C22.2 No. 21.
Environment	Type 4X enclosure, CAN/CSA - C22.2 No. 21. Dry, indoor and wet and damp outdoor non-hazardous location.

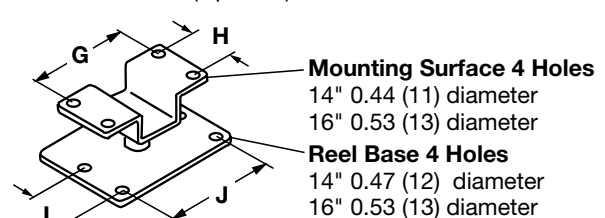
### Dimensions

Inch (mm)	A	B	C	D	E	F	G	H	I	J
14" Reel	6.50" (165)	8.12" (206)	16.25" (413)	13.75" (349)	3.00" (76)	12.19" (310)	3.00" (76)	3.00" (76)	3.00" (76)	6.50" (165)
16" Reel	6.50" (165)	9.12" (232)	18.25" (464)	15.75" (400)	3.00" (76)	14.19" (360)	6.00" (152)	6.00" (152)	4.94" (125)	6.50" (165)



### Pivot Base

#### 340° Pivot Base (Optional)



Note: Pivot base for use only with Weatherproof Cable Reel.

Dimensions in Inches (mm)



## Features and Benefits

### Industrial Power Cord Reels

- Durable, corrosion resistant steel construction design with yellow or white powder coat finish
- Multi-position guide arm
- Positive-latch mechanism automatically maintains desired cord length
- 12 AWG cord for greater current carrying capacity
- Plug-in 5 ft. long power cord requires no electrical wiring



HBL45123TL20

### Industrial Power Cord Reels

Cord End	Cable Feet (m)	Cable Type	NEMA Style	Amps	Volts AC	Weight Lbs. (kg)	Catalog Number
Without cord ends.	50 (15.2)	#16/3 SJ	—	10	125	20 (9.1)	<b>HBL50163</b>
Without cord ends.	45 (13.7)	#12/3 SJ	—	20	125	21 (9.5)	<b>HBL45123</b>
HBL5269C connector.	45 (13.7)	#12/3 SJ	5-15R	15	125	28 (12.7)	<b>HBL45123C</b>
HBL5369C connector.	45 (13.7)	#12/3 SJ	5-20R	20	125	28 (12.7)	<b>HBL45123C20</b>
Same as above with white reel housing.							<b>HBL45123C20W</b>
HBL2313 connector.	45 (13.7)	#12/3 SJ	L5-20R	20	125	28 (12.7)	<b>HBL45123TL20</b>
Same as above with white reel housing.							<b>HBL45123TL20W</b>
Portable outlet box with (1) gray duplex receptacle.	45 (13.7)	#12/3 SJ	5-15R	15	125	29 (13.2)	<b>HBL45123R</b>
Same as above except white.	45 (13.7)	#12/3 SJ	5-20R	20	125	29 (13.2)	<b>HBL45123R20</b>
Black portable outlet box with (1) gray duplex receptacle, white reel housing.							<b>HBL45123R20W</b>
Portable outlet box with (2) gray duplex receptacles.	45 (13.7)	#12/3 SJ	5-20R	20	125	29 (13.2)	<b>HBL45123R220</b>
Same as above except white.							<b>HBL45123R220W</b>
Black portable outlet box with (2) gray duplex receptacles, white reel housing.	45 (13.7)	#12/3 SJ	5-20R	20	125	29 (13.2)	<b>HBL45123R220WM1</b>
Portable outlet box with (1) ground fault protected gray duplex receptacle.	45 (13.7)	#12/3 SJ	5-15R	15	125	29 (13.2)	<b>HBL45123GF15</b>
Same as above except white.	45 (13.7)	#12/3 SJ	5-20R	20	125	29 (13.2)	<b>HBL45123GF20</b>
Black portable outlet box with (2) ground fault protected gray duplex receptacles, white reel housing.	45 (13.7)	#12/3 SJ	5-20R	20	125	25 (11.3)	<b>HBL45123GF220WM1</b>

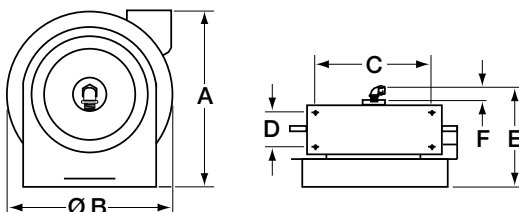
Note: 15 Amp: Supplied with 5 ft. power supply cord with HBL5266C, 15A straight blade plug. 20 Amp: Supplied with 5 ft. power supply cord with HBL5366C, 20A straight blade plug. Ground fault protected reels supplied with (1) GFM20 and (1) HBLP26FS.

### Accessories

Description	Weight Lbs. (kg)	Catalog Number
Pivot base 340° rotation fits all industrial models.	5 (2.3)	<b>HBL340PB</b>
Replacement stop.	.2 (.09)	<b>HBL12BS</b>

### Dimensions

Inch (mm)	A	B	C	D	E	F
	13.00"	12.38"	8.00"	2.50"	9.75"	1.25"
	(330)	(314)	(203)	(64)	(248)	(32)



Note: All models have four .625" (15.9) diameter mounting holes.

### Listing/Certification

UL 355  
CSA C22.2 No. 21.

### Environment

Dry, indoor, non-hazardous locations.

### Mounting Positions

Wall mount.  
Ceiling mount.  
Bench mount.



HBL45123C



HBL45123TL20



HBL45123R



HBL45123R20WM1



HBL45123GF15



HBL45123GF220WM1



HBL340PB

Dimensions in Inches (mm)



# Cable, Cord and Hose Reels



HBL50162LED

## Industrial Lighted Cord Reels, 50 Ft. (15.2m) - 16/3 AWG SJEO Cable



Cord End	Watts (Max)	Amps	Volts AC	Weight Lbs. (kg)	Catalog Number
LED hand lamp, with end light.	8 + 1	0.07	120	21 (9.5)	<b>HBL50162LED</b>
Fluorescent hand lamp.	13	0.3	120	21 (9.5)	<b>HBL50162FL</b>
Incandescent hand lamp.	100	0.8	125	21 (9.5)	<b>HBL50163IN</b>

Note: Supplied with 5 ft. power supply cord with HBL5266C, 15A straight blade plug.

### Accessories



HBLC25143IN

Description	Watts (Max)	Amps	Volts AC	Weight Lbs. (kg)	Catalog Number
Replacement stop.	—	—	—	.2 (.09)	<b>HBL16BS</b>
Replacement LED hand lamp.	8 + 1	0.07	120	1 (.5)	<b>HBL16LEDR*</b>
Replacement fluorescent hand lamp.	13	0.3	120	1 (.5)	<b>HBL16FLR</b>
Replacement incandescent hand lamp.	100	0.8	125	1 (.5)	<b>HBL16INR</b>

Note: \*ETL Listed by INTERTEK.



HBLC40182LED



HBL50162FL



HBL50163IN

## Commercial Lighted Cord Reels



Description	Cable Feet (m)	Cable Type	Watts (Max)	Amps	Volts AC	Weight Lbs. (kg)	Catalog Number
Reel with LED hand lamp, with flashlight end, white	40 (12.2)	#18/2 SJTOW	8 + 1	0.65	125	8.2 (3.7)	<b>HBLC40182LED</b>
Reel with non-metallic incandescent hand lamp and automatic shut off switch, yellow.	25 (7.6)	#16/3 SJT	75	0.6	125	9.0 (4.1)	<b>HBLC25163AIN**</b>
Reel with metallic incandescent hand lamp with receptacle, yellow.	25 (7.6)	#14/3 SJT	1,625	13	125	9.5 (4.3)	<b>HBLC25143IN</b>
Reel with fluorescent hand lamp and automatic shut off switch, white.	40 (12.2)	#18/2 SJTOW	13	0.3	120	8.2 (3.7)	<b>HBLC40182AFL**</b>
Reel with fluorescent hand lamp and in-line receptacle, white.	40 (12.2)	#16/3 SJT	1,200	10	120	9.0 (4.1)	<b>HBLC40163FL</b>

Note: \*\*Allows the electrical cord reel installation to conform to Article 511 of the National Electric Code concerning installation of electrical devices in commercial garages, repair facilities and storage locations by positioning the switch above the defined area where hazardous fumes may collect.



HBLC40182AFL



HBLC40163FL



INTERTEK and the Intertek logo are registered trademarks of Intertek Group plc.

## Features and Benefits

### Commercial Cord Reels

- Durable steel construction for commercial and general purpose applications
- Compact size, flexible mounting options for ceiling, wall or bench
- Automatic ratchet lock holds cord at desired length and provides easy, smooth retraction of cord
- 12 AWG cord for greater current carrying capacity
- Attached plug for power cord requires no wiring



### Commercial Cord Reels

- Durable light weight non-metallic housing
- Removable bracket allows reel to be disengaged from mount providing portability
- 40 Ft. of #12/3 cord for greater current carrying capacity
- Triple tap outlet with supplemental over current protection

### Commercial Cord Reels

Description	Cable Feet (m)	Cable Type	Watts (Max)	Amps	Volts AC	Weight Lbs. (kg)	Catalog Number
Reel with triple tap outlet, black.	40 (12.2)	#12/3 SJTW	1,875	15	125	9.0 (4.1)	<b>HBLC40123TT</b>
Reel with wire leads, black.	40 (12.2)	#12/3 SJTW	1,875	15	125	9.0 (4.1)	<b>HBLC40123</b>
Reel with triple tap outlet, with white cord.	30 (9.1)	#16/3 SJT	1,250	10	125	8.5 (3.9)	<b>HBLC30163TT</b>
Reel with a Hubbell HBL5969VBLK connector, yellow.	25 (7.6)	#16/3 SJT	1,250	10	125	8.5 (3.9)	<b>HBLC25163C</b>
Reel with wire leads, yellow.	25 (7.6)	#16/3 SJT	1,250	10	125	8.5 (3.9)	<b>HBLC25163**</b>
Replacement mounting bracket for 12/3 cable, commercial cord reels HBLC40123(TT).	—	—	—	—	—	.3 (.17)	<b>HBLC12MB</b>

Note: Reels supplied with 2 ft. power supply cord and molded on straight blade 15A plug.  
 \*\*UL Listed only.



HBLC40123TT

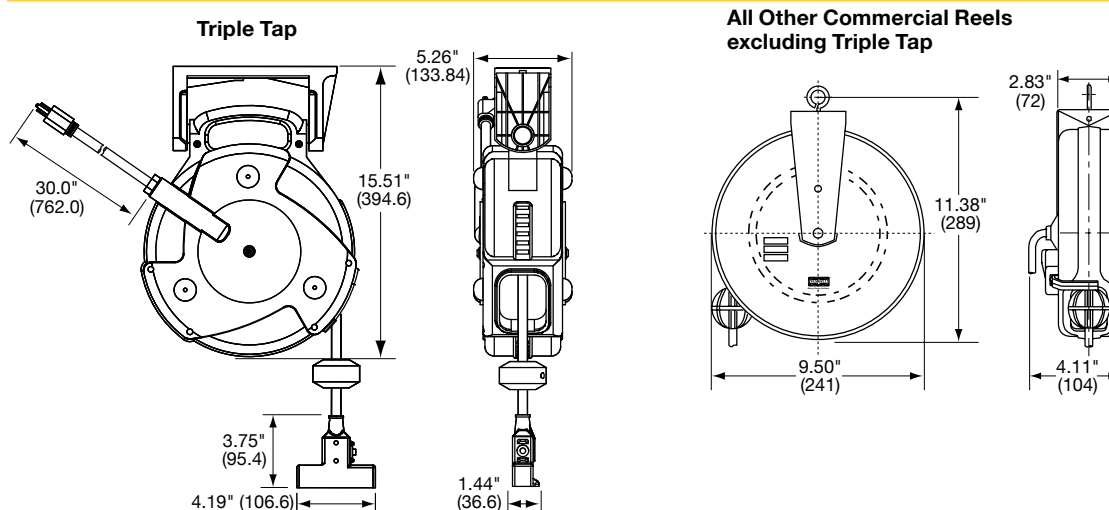


HBLC25163C

## Specifications

Listing/Certification	UL 355.
Environment	Dry, indoor, non-hazardous locations.
Incandescent Lamp	75 watt max., auto switch, no receptacle; 100 watt max. bulb, with receptacle.
Fluorescent Lamp	10A/1200W max. with in-line receptacle; 13 watt without receptacle.

## Dimensions



Dimensions in Inches (mm)

# Cable, Cord and Hose Reels

## Features and Benefits

### Air/Water Hose Reels

- Constructed of rugged steel, baked polyester finish components
- Multi-position four roller guide and adjustable hose stop
- Spring rewind and ratchet lock
- Full flow shafts and swivels assure maximum product delivery



HBLHR2535



HBL50SD

### Static Discharge Reels

- Steel construction
- Compact design minimizes required installation space
- Available with steel or nylon coated steel cable
- Large grounding jaw clamp provides low resistant ground termination

### Air/Water Hose Reels

Description	Cable Feet (m)	Max Pressure Psi	Frame Size	Input Hose Fitting (NPTF)	O.D. Inch (mm)	Weight Lbs. (kg)	Catalog Number
Low pressure ¼" ID.	35 (10.7)	300	A	1/4	0.51 (13.0)	24 (10.9)	<b>HBLHR2535</b>
	50 (15.2)	300	B	1/4	0.51 (13.0)	26 (11.8)	<b>HBLHR2550</b>
Low pressure ⅜" ID.	25 (7.6)	300	A	3/8	0.65 (16.5)	23 (10.4)	<b>HBLHR3825</b>
	50 (15.2)	300	C	3/8	0.65 (16.5)	36 (16.3)	<b>HBLHR3850</b>
	70 (21.3)	300	E	3/8	0.65 (16.5)	50 (22.7)	<b>HBLHR3870</b>
Low pressure ½" ID.	35 (10.7)	300	C	3/8	0.77 (19.6)	38 (17.2)	<b>HBLHR5035</b>
	50 (15.2)	300	E	3/8	0.77 (19.6)	44 (20.0)	<b>HBLHR5050</b>



HBLHR2535



HBL50SD

### Static Discharge Reels

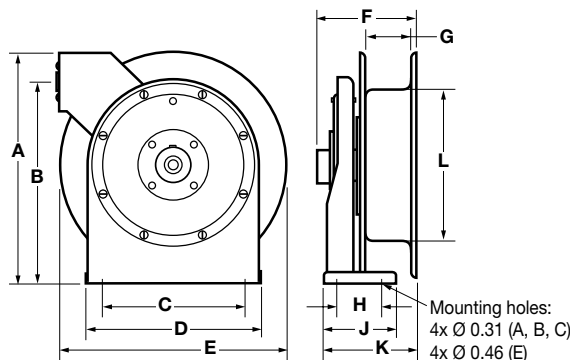
Description	Cable Feet (m)	Cable Type	Weight Lbs. (kg)	Catalog Number
Static discharge reel.	50 (15.2)	Single ⅜" Steel	12 (5.4)	<b>HBL50SD</b>
Static discharge reel.	50 (15.2)	Single ⅜" Steel Nylon Coated	13 (5.9)	<b>HBL50SDN</b>
Static discharge reel.	50 (15.2)*	Dual (Y) ⅜" Steel	13 (5.9)	<b>HBL50YSD</b>

Note: \*35 ft. (10.6m) + Dual 15 ft. (4.5m) for "Y".

### Dimensions

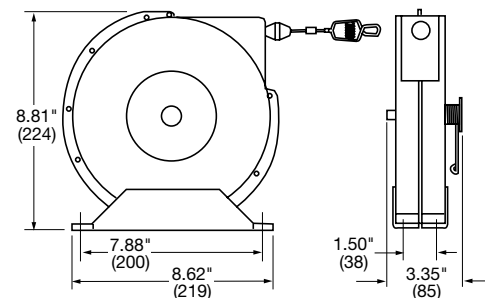
Frame size	A	B	C	D	E	F	G	H	J	K	L	M
A	12.88 (327)	11.25 (286)	8.00 (203)	9.88 (250)	12.13 (308)	5.50 (140)	2.50 (64)	2.50 (64)	4.00 (102)	5.09 (132)	8.38 (213)	—
B	14.50 (368)	12.81 (325)	9.75 (248)	11.25 (285)	13.75 (349)	6.19 (157)	3.16 (80)	2.50 (64)	4.00 (102)	5.88 (149)	8.38 (213)	—
C	17.50 (445)	15.63 (286)	9.75 (248)	11.25 (285)	16.50 (419)	6.19 (157)	3.16 (80)	2.50 (64)	4.00 (102)	5.88 (149)	10.25 (260)	—
E	20.38 (518)	18.12 (460)	7.88 (200)	9.45 (240)	19.00 (483)	6.63 (168)	3.35 (85)	3.86 (98)	5.43 (138)	6.10 (155)	11.00 (280)	9.5 (241)

### Air/Water Hose Reels



Dimensions in Inches (mm)

### Static Discharge Reel



# SECTION K

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# Ground Fault Products

## Features and Benefits

**AUTOGUARD® Self Test Technology 1st introduced by Hubbell Over 10 Years Ago!**  
**Self Test Monitoring Now Required in 2015 UL943 GFCI Safety Standard.**

### Hubbell Self Test GFCI Patented Technology

Hubbell AUTOGUARD® GFCI receptacles continually test and monitor for “people protection capability” automatically. This patented safety feature includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost. GFCI auto-monitoring is conducted continuously within every 30 seconds.

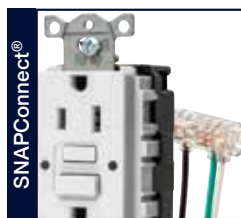
Also, clear visual indicators are provided on the device face representing power status, trip condition, ground fault condition and end of life status. In addition, for added safety, power will be denied to the receptacle face if reverse wiring of line and load was to occur.

UL (Underwriters Laboratory) now requires all manufacturers to provide self test monitoring capability effective June 29, 2015. When was the last time you tested a GFCI receptacle? Industry studies indicate only a very small number of installations are actually being tested as is recommended by the manufacturer and UL. This is the fundamental reason this revision has been incorporated into UL943 standard for 2015.

Each GFR must automatically monitor GFCI functionality periodically	If the unit can no longer provide GFCI protection, it must comply with the following	Reverse line and load miswire function – (repeated)
Automatically test within (5) seconds of power to line and load terminals; periodically means every (3) hours or less.	Deny Power (trip with the inability to reset); if unit does reset it is subject to the next auto-monitoring test cycle.  Visual and/or audible indication that it no longer can provide protection.	If the line conductor is wired to the load terminal, power to the receptacle face will be denied. This includes both the initial installation and any subsequent reinstallations.



GFRST15WNL



### Features and Benefits

- **Patented AUTOGUARD® Technology** — Continuous Self Test functionality and disconnects power to receptacle if critical components are damaged and GFCI protection is lost
- **Federal Communications Commission Part 15** — Compliant for radiated and conducted emissions
- **Thermoplastic Nylon Housing** — High Impact and Ultraviolet Resistant construction provides resilience in harsh environments
- **Clear Visual Indication of GFR Status** — LED Indicating Lights:
  - Green LED (power to the device)
  - Red LED (trip condition/ground fault condition)
  - Flashing Red LED (end of life)
- **Internal Back Wiring Clamp and Guide Pocket** — Quick and dependable termination
- **Protection Against Line and Load Reversal** — No power to the face or downstream receptacles if device is miswired
- **Installation Ease, Lower Labor Cost** — With auto-grounding clip, captive mounting screws and single tab “breakoff” ears and full “breakoff” for OEM raised covers
- **Night Light Option** — Light sensor controls for automatic “ON/OFF” and custom dual lens for optimum light output





Fed. Spec.

Meets UL Standard 943  
Class A GFCI

## Features and Benefits

### Extra Heavy Duty Industrial and Hospital Grade GFCI Receptacles Tamper-Resistant and Weather Resistant

#### 10kA Short Circuit Current Rating

#### Limits improper access to energized contacts

- Exclusive patented tamper-resistant protection through switching technology
- Continually tests and monitors for people protection automatically
- Patented self test diagnostics

#### Power indication

- Steady "ON" **GREEN LED** provides indication of power

#### Ground fault indicator

- Steady "ON" **RED LED** provides visual indication of a ground fault condition; flashing red indicates device has lost capability to provide protection

#### No power at face if reverse wired

- Open circuit condition eliminates false assumption of protection at face

#### Durable face with V-0 flammability rating

- Polyester face cover



### AUTOGUARD® Self Test GFCI Receptacles Tamper-Resistant and Weather Resistant



Description	Rating	Color	Standard	Hospital Grade
Flush, polyester face, back and side wired, multiple drive screws.		Black	<b>GFR5262SGBK</b>	<b>GFR8200SGBK</b>
		Brown	<b>GFR5262SG</b>	<b>GFR8200SG</b>
		Gray	<b>GFR5262SGGY</b>	<b>GFR8200SGGY</b>
		Ivory	<b>GFR5262SGI</b>	<b>GFR8200SGI</b>
		Red	<b>GFR5262SGR</b>	<b>GFR8200SGR</b>
		White	<b>GFR5262SGW</b>	<b>GFR8200SGW</b>
Flush, polyester face, back and side wired, multiple drive screws.		Black	<b>GFR5362SGBK</b>	<b>GFR8300SGBK</b>
		Brown	<b>GFR5362SG</b>	<b>GFR8300SG</b>
		Gray	<b>GFR5362SGGY</b>	<b>GFR8300SGGY</b>
		Ivory	<b>GFR5362SGI</b>	<b>GFR8300SGI</b>
		Red	<b>GFR5362SGR</b>	<b>GFR8300SGR</b>
		White	<b>GFR5362SGW</b>	<b>GFR8300SGW</b>

Note: GFCI type receptacles should not be used in critical care patient areas or for electrical life support equipment applications because of the possibility of power interruption. All GFCI receptacles listed above are furnished with both a matching color nylon wallplate, and a SS26 302/304 super stainless steel wallplate. 20 amp feed-through capability.

See page Tech-10 for Tamper-Resistant and Weather Resistant descriptions.

### GFCI Receptacle Specifications per GFCI Products Listed (Pages K-3 to K-9)

Trip Level	4 to 6 mA.
Trip Time	.025 second nominal.
Frequency	60 Hz.
Voltage	120V AC +10% - 15% (102V to 132V).
Amperage	15A/20A, 20A Feed-Thru.
Maximum Interrupting Capacity	10,000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Listings and Standards	Meets UL498 for receptacles, UL943 Class A for GFCIs UL File E41978 CSA Certified.
Codes	Meets all NEC® and CEC requirements. NEMA WD-6 ANSI 73.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).



## Features and Benefits

### Heavy Duty Commercial Tamper-Resistant GFCI Receptacles

- Patented shutter design for tamper-resistant protection
- Compliant with NEC® 406.12 and NEC® 517.18(C)
- Patented AUTOGUARD® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Alarm version provides audible notification of a trip condition



### Tamper-Resistant



Rating	Color	Standard	Night Light Two LED Night Lights	Alarm	Combination Switch 15A 120V Switch	Standard 3-Pack Three Devices per Pack
	Almond	GFTRST15AL	GFTRST15ALNL	GFTRST15ALB	—	—
	Black	GFTRST15BK	GFTRST15BKNL	GFTRST15BKB	—	—
	Brown	GFTRST15	GFTRST15NL	GFTRST15B	—	—
	Gray	GFTRST15GY	GFTRST15GYNL	GFTRST15GYB	—	—
	Ivory	GFTRST15I	GFTRST15INL	GFTRST15IB	GFSPST15I	GFTRST15I3
	Light Almond	GFTRST15LA	GFTRST15LANL	GFTRST15LAB	GFSPST15LA	GFTRST15LA3
	Red	GFTRST15R	GFTRST15RNL	GFTRST15RB	—	—
	White	GFTRST15W	GFTRST15WNL	GFTRST15WB	GFSPST15W	GFTRST15W3
		Almond	GFTRST20AL	GFTRST20ALNL	GFTRST20ALB	—
Black		GFTRST20BK	GFTRST20BKNL	GFTRST20BKB	—	—
Brown		GFTRST20	GFTRST20NL	GFTRST20B	—	—
Gray		GFTRST20GY	GFTRST20GYNL	GFTRST20GYB	—	—
Ivory		GFTRST20I	GFTRST20INL	GFTRST20IB	—	GFTRST20I3
Light Almond		GFTRST20LA	GFTRST20LANL	GFTRST20LAB	—	GFTRST20LA3
Red		GFTRST20R	GFTRST20RNL	GFTRST20RB	—	—
White		GFTRST20W	GFTRST20WNL	GFTRST20WB	—	GFTRST20W3



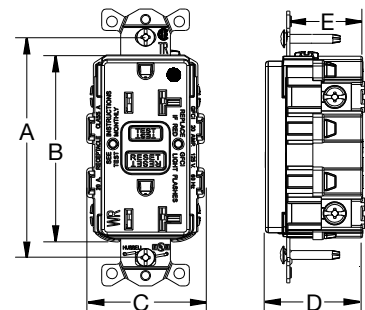
### Hospital Grade • Tamper-Resistant



Rating	Color	Night Light Two LED Night Lights	Alarm
	Almond	GFTRST82ALNL	GFTRST82ALB
	Black	GFTRST82BKNL	GFTRST82BKB
	Brown	GFTRST82NL	GFTRST82B
	Gray	GFTRST82GYNL	GFTRST82GYB
	Ivory	GFTRST82INL	GFTRST82IB
	Light Almond	GFTRST82LANL	GFTRST82LAB
	Red	GFTRST82RNL	GFTRST82RB
	White	GFTRST82WNL	GFTRST82WB
	Almond	GFTRST83ALNL	GFTRST83ALB
	Black	GFTRST83BKNL	GFTRST83BKB
	Brown	GFTRST83NL	GFTRST83B
	Gray	GFTRST83GYNL	GFTRST83GYB
	Ivory	GFTRST83INL	GFTRST83IB
	Light Almond	GFTRST83LANL	GFTRST83LAB
Red	GFTRST83RNL	GFTRST83RB	
White	GFTRST83WNL	GFTRST83WB	

### Product Dimensions Inches (mm)

GFCI Receptacle	
A	3.27 (83.1)
B	2.75 (69.8)
C	1.75 (44.5)
D	1.47 (37.4)
E	1.10 (27.9)



NEC® is a registered trademark of the National Fire Protection Association (NFPA).

## Features and Benefits

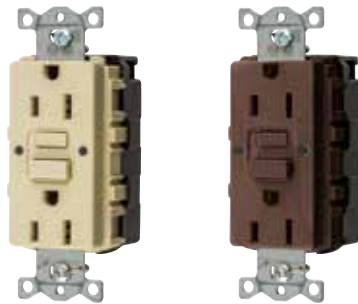
### Heavy Duty Commercial Standard GFCI Receptacles

- Patented AUTOGUARD® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Internal back wiring clamp and guide for quick and secure termination
- Night light option includes light sensor controls for automatic ON and OFF, custom dual lens for optimum light output



### Standard

Rating	Color	Standard	Night Light	Two LED Night Lights	Alarm	Assembled in USA	Blank Face Available in 20A Only	Standard 3-Pack Three Devices per Pack	
	Almond	GFRST15AL	GFRST15ALNL	GFRST15ALB	GFRST15ALU	—	—	—	
	Black	GFRST15BK	GFRST15BKNL	GFRST15BKB	GFRST15BKU	—	—	—	
	Brown	GFRST15	GFRST15NL	GFRST15B	GFRST15U	—	—	—	
	Gray	GFRST15GY	GFRST15GYNL	GFRST15GYB	GFRST15GYU	—	—	—	
	Ivory	GFRST15I	GFRST15INL	GFRST15IB	GFRST15IU	—	—	GFRST15I3	
	Light Almond	GFRST15LA	GFRST15LANL	GFRST15LAB	GFRST15LAU	—	—	GFRST15LA3	
	Red	GFRST15R	GFRST15RNL	GFRST15RB	GFRST15RU	—	—	—	
	White	GFRST15W	GFRST15WNL	GFRST15WZB	GFRST15WU	—	—	GFRST15W3	
		Almond	GFRST20AL	GFRST20ALNL	GFRST20ALB	GFRST20ALU	GFBFST20AL	—	—
		Black	GFRST20BK	GFRST20BKNL	GFRST20BKB	GFRST20BKU	GFBFST20BK	—	—
Brown		GFRST20	GFRST20NL	GFRST20B	GFRST20U	GFBFST20	—	—	
Gray		GFRST20GY	GFRST20GYNL	GFRST20GYB	GFRST20GYU	GFBFST20GY	—	—	
Ivory		GFRST20I	GFRST20INL	GFRST20IB	GFRST20IU	GFBFST20I	—	GFRST20I3	
Light Almond		GFRST20LA	GFRST20LANL	GFRST20LAB	GFRST20LAU	GFBFST20LA	—	GFRST20LA3	
Red		GFRST20R	GFRST20RNL	GFRST20RB	GFRST20RU	GFBFST20R	—	—	
White		GFRST20W	GFRST20WNL	GFRST20WB	GFRST20WU	GFBFST20W	—	GFRST20W3	



### Standard SNAPConnect®

Rating	Color	Standard	Assembled in USA
	Almond	GFRST15SNAPAL	GFRST15SNAPALNA
	Black	GFRST15SNAPBK	GFRST15SNAPBKNA
	Brown	GFRST15SNAP	GFRST15SNAPNA
	Gray	GFRST15SNAPGY	GFRST15SNAPGYNA
	Ivory	GFRST15SNAPI	GFRST15SNAPINA
	Light Almond	GFRST15SNAPLA	GFRST15SNAPLANA
	Red	GFRST15SNAPR	GFRST15SNAPRNA
	White	GFRST15SNAPW	GFRST15SNAPWNA
	Almond	GFRST20SNAPAL	GFRST20SNAPALNA
	Black	GFRST20SNAPBK	GFRST20SNAPBKNA
	Brown	GFRST20SNAP	GFRST20SNAPNA
	Gray	GFRST20SNAPGY	GFRST20SNAPGYNA
	Ivory	GFRST20SNAPI	GFRST20SNAPINA
	Light Almond	GFRST20SNAPLA	GFRST20SNAPLANA
	Red	GFRST20SNAPR	GFRST20SNAPRNA
	White	GFRST20SNAPW	GFRST20SNAPWNA

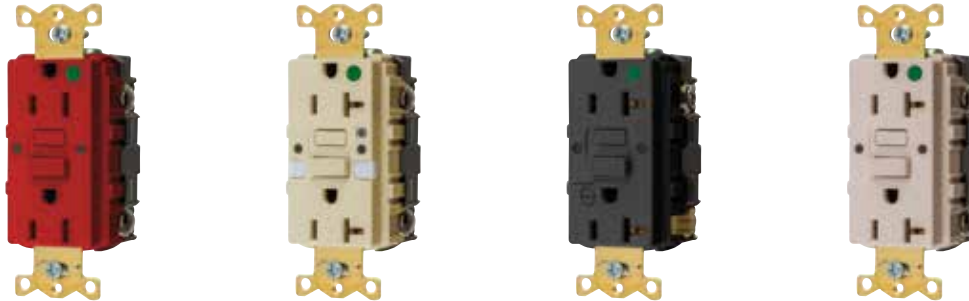
### Right Angle Pigtailed Terminal

Description	Type	Catalog Number
Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.	Solid Stranded	<b>SNAP1RA</b> <b>SNAP2RA</b>
Same as above. Assembled in USA.	Solid Stranded	<b>SNAP1RANA</b> <b>SNAP2RANA</b>

## Features and Benefits

### Heavy Duty Commercial Standard Hospital Grade GFCI Receptacles

- Fed. Spec UL Listed, Hospital Grade
- Green power indicator and red trip indicator
- Patented AUTOGUARD® self test technology
- Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple



### Hospital Grade ●

Rating	Color	Standard	Night Light Two LED Night Lights	Alarm	Assembled in USA	
	Almond	GFRST82AL	GFRST82ALNL	GFRST82ALB	GFRST82ALU	
	Black	GFRST82BK	GFRST82BKNL	GFRST82BKB	GFRST82BKU	
	Brown	GFRST82	GFRST82NL	GFRST82B	GFRST82U	
	Gray	GFRST82GY	GFRST82GYNL	GFRST82GYB	GFRST82GYU	
	Ivory	GFRST82I	GFRST82INL	GFRST82IB	GFRST82IU	
	Light Almond	GFRST82LA	GFRST82LANL	GFRST82LAB	GFRST82LAU	
	Red	GFRST82R	GFRST82RNL	GFRST82RB	GFRST82RU	
	White	GFRST82W	GFRST82WNL	GFRST82WB	GFRST82WU	
		Almond	GFRST83AL	GFRST83ALNL	GFRST83ALB	GFRST83ALU
		Black	GFRST83BK	GFRST83BKNL	GFRST83BKB	GFRST83BKU
Brown		GFRST83	GFRST83NL	GFRST83B	GFRST83U	
Gray		GFRST83GY	GFRST83GYNL	GFRST83GYB	GFRST83GYU	
Ivory		GFRST83I	GFRST83INL	GFRST83IB	GFRST83IU	
Light Almond		GFRST83LA	GFRST83LANL	GFRST83LAB	GFRST83LAU	
Red		GFRST83R	GFRST83RNL	GFRST83RB	GFRST83RU	
White		GFRST83W	GFRST83WNL	GFRST83WB	GFRST83WU	



### Hospital Grade ● SNAPConnect®

Rating	Color	Standard
	Almond	GFRST82SNAPAL
	Black	GFRST82SNAPBK
	Brown	GFRST82SNAP
	Gray	GFRST82SNAPGY
	Ivory	GFRST82SNAPI
	Light Almond	GFRST82SNAPLA
	Red	GFRST82SNAPR
	White	GFRST82SNAPW
	Almond	GFRST83SNAPAL
	Black	GFRST83SNAPBK
	Brown	GFRST83SNAP
	Gray	GFRST83SNAPGY
	Ivory	GFRST83SNAPI
	Light Almond	GFRST83SNAPLA
	Red	GFRST83SNAPR
	White	GFRST83SNAPW



### Right Angle Pigtailed Terminal

Description	Type	Catalog Number
Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.	Solid	SNAP1RA
	Stranded	SNAP2RA
Same as above. Assembled in USA.	Solid	SNAP1RANA
	Stranded	SNAP2RANA



# Ground Fault Products



Meets UL Standard 943  
Class A GFCI

## Features and Benefits

### Heavy Duty Commercial Tamper and Weather Resistant GFCI Receptacles

- Patented shutter design for tamper-resistant protection
- Meets NEC® requirements for TR (406.12) and WR (406.9), UV and corrosion resistance for harsh and damp applications
- Patented AUTOGUARD® self test technology
- Protects against line and load reversal, no power to the face or downstream if device is miswired



### Tamper-Resistant Weather Resistant



Rating	Color	Standard	Assembled in USA	Isolated Ground	SNAPConnect®	Right Angle Pigtailed Terminal
	Almond	GFTWRST15AL	GFTWRST15ALU	GFTWRST15ALIG	GFTWRST15SNAPAL	Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.
	Black	GFTWRST15BK	GFTWRST15BKU	GFTWRST15BKIG	GFTWRST15SNAPBK	
	Brown	GFTWRST15	GFTWRST15U	GFTWRST15IG	GFTWRST15SNAP	
	Gray	GFTWRST15GY	GFTWRST15GYU	GFTWRST15GYIG	GFTWRST15SNAPGY	
	Ivory	GFTWRST15I	GFTWRST15IU	GFTWRST15IIG	GFTWRST15SNAPI	
	Light Almond	GFTWRST15LA	GFTWRST15LAU	GFTWRST15LAIG	GFTWRST15SNAPLA	
	Red	GFTWRST15R	GFTWRST15RU	GFTWRST15RIG	GFTWRST15SNAPR	
	White	GFTWRST15W	GFTWRST15WU	GFTWRST15WIG	GFTWRST15SNAPW	
	Almond	GFTWRST20AL	GFTWRST20ALU	GFTWRST20ALIG	GFTWRST20SNAPAL	Same as above. Assembled in USA.
	Black	GFTWRST20BK	GFTWRST20BKU	GFTWRST20BKIG	GFTWRST20SNAPBK	
	Brown	GFTWRST20	GFTWRST20U	GFTWRST20IG	GFTWRST20SNAP	
	Gray	GFTWRST20GY	GFTWRST20GYU	GFTWRST20GYIG	GFTWRST20SNAPGY	
	Ivory	GFTWRST20I	GFTWRST20IU	GFTWRST20IIG	GFTWRST20SNAPI	
	Light Almond	GFTWRST20LA	GFTWRST20LAU	GFTWRST20LAIG	GFTWRST20SNAPLA	
	Red	GFTWRST20R	GFTWRST20RU	GFTWRST20RIG	GFTWRST20SNAPR	
	White	GFTWRST20W	GFTWRST20WU	GFTWRST20WIG	GFTWRST20SNAPW	



### Hospital Grade • Tamper-Resistant Weather Resistant



Rating	Color	Standard	Assembled in USA	Isolated Ground	SNAPConnect®	Right Angle Pigtailed Terminal
	Almond	GFTWRST82AL	GFTWRST82ALU	GFTWRST82ALIG	GFTWRST82SNAPAL	Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.
	Black	GFTWRST82BK	GFTWRST82BKU	GFTWRST82BKIG	GFTWRST82SNAPBK	
	Brown	GFTWRST82	GFTWRST82U	GFTWRST82IG	GFTWRST82SNAP	
	Gray	GFTWRST82GY	GFTWRST82GYU	GFTWRST82GYIG	GFTWRST82SNAPGY	
	Ivory	GFTWRST82I	GFTWRST82IU	GFTWRST82IIG	GFTWRST82SNAPI	
	Light Almond	GFTWRST82LA	GFTWRST82LAU	GFTWRST82LAIG	GFTWRST82SNAPLA	
	Red	GFTWRST82R	GFTWRST82RU	GFTWRST82RIG	GFTWRST82SNAPR	
	White	GFTWRST82W	GFTWRST82WU	GFTWRST82WIG	GFTWRST82SNAPW	
	Almond	GFTWRST83AL	GFTWRST83ALU	GFTWRST83ALIG	GFTWRST83SNAPAL	Same as above. Assembled in USA.
	Black	GFTWRST83BK	GFTWRST83BKU	GFTWRST83BKIG	GFTWRST83SNAPBK	
	Brown	GFTWRST83	GFTWRST83U	GFTWRST83IG	GFTWRST83SNAP	
	Gray	GFTWRST83GY	GFTWRST83GYU	GFTWRST83GYIG	GFTWRST83SNAPGY	
	Ivory	GFTWRST83I	GFTWRST83IU	GFTWRST83IIG	GFTWRST83SNAPI	
	Light Almond	GFTWRST83LA	GFTWRST83LAU	GFTWRST83LAIG	GFTWRST83SNAPLA	
	Red	GFTWRST83R	GFTWRST83RU	GFTWRST83RIG	GFTWRST83SNAPR	
	White	GFTWRST83W	GFTWRST83WU	GFTWRST83WIG	GFTWRST83SNAPW	

NEC® is a registered trademark of the National Fire Protection Association (NFPA).





Meets UL Standard 943  
Class A GFCI

## Features and Benefits

### Heavy Duty Commercial Weather Resistant GFCI Receptacles

- Patented AUTOGUARD® self test technology
- Meets NEC® requirements for weather resistance (406.9), UV and corrosion resistance for harsh and damp applications
- Protects against line and load reversal, no power to the face or downstream if device is miswired



### Weather Resistant

Rating	Color	Standard	Rating	Color	Standard
 15A 125V NEMA 5-15R UL CSA 0.5 HP	Almond	<b>GFWRST15AL</b>	 20A 125V NEMA 5-20R UL CSA 1 HP	Almond	<b>GFWRST20AL</b>
	Black	<b>GFWRST15BK</b>		Black	<b>GFWRST20BK</b>
	Brown	<b>GFWRST15</b>		Brown	<b>GFWRST20</b>
	Gray	<b>GFWRST15GY</b>		Gray	<b>GFWRST20GY</b>
	Ivory	<b>GFWRST15I</b>		Ivory	<b>GFWRST20I</b>
	Light Almond	<b>GFWRST15LA</b>		Light Almond	<b>GFWRST20LA</b>
	Red	<b>GFWRST15R</b>		Red	<b>GFWRST20R</b>
White	<b>GFWRST15W</b>	White	<b>GFWRST20W</b>		

## Features and Benefits

### UL 508 1.5HP GFCI Receptacles

Hubbell AUTOGUARD® GFR products continually test and monitor for “people protection capability” automatically. This patented safety feature includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost. Also, visual indicators are clearly provided on the device face representing “power status”, “trip condition”, “ground fault condition” and “end of life status”.

- Blank face 1.5 horsepower motor control rated switch UL508 listed. Also listed to Underwriters Laboratories standard 943 for Class A GFCI
- If wired incorrectly there will be no power to the face or to downstream receptacles for added safety. (2) LED indicators provide immediate status of power, trip condition and ability to provide GFCI protection
- In addition to providing Class A GFCI protection, the HP series includes a 1.5 HP rating for motor control switching per UL508



**GFBFHP20GY**

### UL 508 1.5HP GFCI

Rating	Color	Standard
20A 125V 1.5 HP	Black	<b>GFBFHP20BK</b>
	Brown	<b>GFBFHP20</b>
	Gray	<b>GFBFHP20GY</b>
	Ivory	<b>GFBFHP20I</b>
	Light Almond	<b>GFBFHP20LA</b>
	Red	<b>GFBFHP20R</b>
	White	<b>GFBFHP20W</b>

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

## Features and Benefits

### Heavy Duty SNAPConnect® Commercial Grade GFCI Receptacles

Requires minimal box space

- Compact size
- Clean finished look

Installation ease

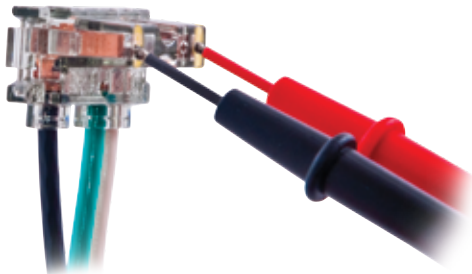
- Self-grounding staple

Audible SNAP, indicates solid connection

- Secure, easy grip latch

Inspection of power contacts

- Clear terminal housing
- No exposed metal



#### No Special Tester Required

.085 inch keyhole accepts the probe points found on the most common voltage testers and digital multi-meters



SNAP1RA  
SNAP1RANA

GFRST20SNAPI  
GFRST20SNAPINA

## Labor Savings Feature!



#### Save one Minute!

Rough-in the SNAPConnect® terminal instead of pigtails.



#### Save Over Three Minutes!

Remove protective packaging and SNAPConnect® device to the circuit.



#### Complete Trim-Out in Less Than One Minute!

Secure mounting screws, attach wallplate, job complete.



## Features and Benefits

### Arc Fault AFCI Receptacles

- Meets new 2017 National Electric Code for AFCI Protection
- Qualified to Federal Specification Listing WC596
- Meets or exceeds UL requirements for tripping time on series and parallel arcs
- Tamper-Resistant and self grounding construction are standard features
- Green power ON LED indicator
- Automatically tests the AFCI each time the reset button is pressed in place
- No reset when tested if AFCI functionality is compromised



### Arc Fault AFCI Receptacles



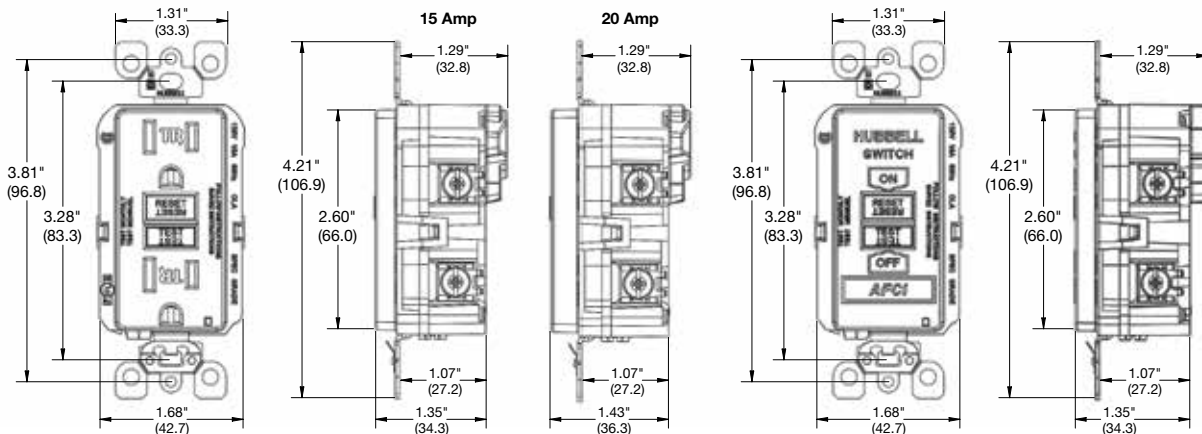
Rating	Color	Standard	Rating	Color	Standard	Blank Face
	Black	<b>AFR15TRBK</b>		Black	<b>AFR20TRBK</b>	—
	Brown	<b>AFR15TR</b>		Brown	<b>AFR20TR</b>	—
	Gray	<b>AFR15TRGY</b>		Gray	<b>AFR20TRGY</b>	—
	Ivory	<b>AFR15TRI</b>		Ivory	<b>AFR20TRI</b>	<b>AFR20BFI</b>
	Light Almond	<b>AFR15TRLA</b>		Light Almond	<b>AFR20TRLA</b>	<b>AFR20BFW</b>
White	<b>AFR15TRW</b>	White	White	<b>AFR20TRW</b>	—	

## Specifications

Ratings		Certifications		Construction	
Amperage	15 Amp/20 Amp	UL1699A	E366570	Termination	Back and Side
Feed-thru	20 Amp Protection	UL498	Receptacle	Terminal	#14-10 AWG
Voltage	120V AC (+10% to 15%) (102V to 132V)	UL Fed Spec	WC-596	Grounding	Self-Grounding Clip
Horsepower	(1) @ Rated Voltage	CSA Standard	C22.2 No. 42	Indicators	Power & Rev Wire
Flammability	Rated V2 per UL 94	CSA Tech	Letter No. M-02A	Configuration	2 Pole, 3 Wire
Operating Temperature	(-35°C to 66°C) or (-30°F to 150°F)	NEMA	WD-6	NEMA	5-15R, 5-20R
		Tamper-Resistant NEC® 406.12; 210.52 – All 15 and 20A 125V, receptacles shall be listed Tamper-Resistant for dwelling installations.			

The Hubbell "AFR" series meets all requirements for an outlet branch-circuit type AFCI; protects branch circuit wiring and extensions to branches such including appliances and cord sets.

## Product Dimensions Inches (mm)



NEC® is a registered trademark of the National Fire Protection Association (NFPA).



## Features and Benefits

### Dual Function AFCI/GFCI Receptacles

- Cost effective solution conveniently located within living space; clearly visible, easily resettable if necessary
- Dual functionality, interrupts power if a ground fault or arc fault is detected
- Safety feature prevents device from resetting if it can no longer provide protection or is reverse wired
- Intuitive visual indication is provided for power (LED green ON); trip condition (LED green OFF)
- Clear indication if unit can no longer provide protection (LED red flashes) and will not reset



### Dual Function AFCI/GFCI Receptacles

Rating	Color	Standard	Rating	Color	Standard
	Black	<b>AFGF15TRBK</b>		Black	<b>AFGF20TRBK</b>
	Brown	<b>AFGF15TR</b>		Brown	<b>AFGF20TR</b>
	Gray	<b>AFGF15TRGY</b>		Gray	<b>AFGF20TRGY</b>
	Ivory	<b>AFGF15TRI</b>		Ivory	<b>AFGF20TRI</b>
	Light Almond	<b>AFGF15TRLA</b>		Light Almond	<b>AFGF20TRLA</b>
	White	<b>AFGF15TRW</b>		White	<b>AFGF20TRW</b>

## Specifications

### Ratings

Amperage	15 Amp/20 Amp
Feed-thru	20 Amp Protection
Voltage	120V AC (+10% to -15%) (102V to 132V)
Horsepower	(1) @ 120V AC
Flammability	Rated V2 per UL 94
Operating Temperature	(-35°C to 66°C) or (-30°F to 150°F)

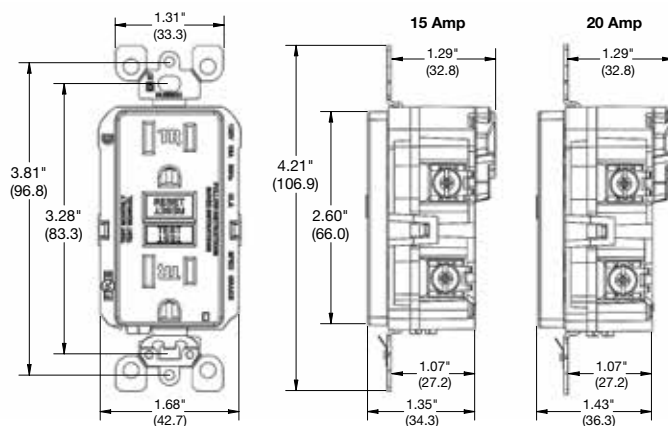
### Certifications

UL1699A	E485931
UL498	Receptacle
UL943	GFCI
UL Fed Spec	WC-596
CSA Standard	C22.2 No. 42
CSA Tech	Letter No. M-02A
NEMA	WD-6

### Construction

Termination	Back and Side
Terminal	#14-10 AWG
Grounding	Autoground Clip
Indicators	Power, Trip, End of Life
Configuration	2 Pole, 3 Wire
NEMA	5-15R, 5-20R

## Product Dimensions Inches (mm)





## Typical Applications Include:

Power Generators, Spas, High Pressure Washers, Power Centers, Refineries and Mobile Power.



The sensing module functions interdependently with a magnetic branch circuit breaker. The module monitors the electrical circuit by use of an external differential current transformer. No direct load is present at the module. In the event of a ground fault, the load is interrupted by way of the hydraulic magnetic circuit breaker utilizing a shunt trip coil.

This line of Sensing Modules is rated from 1 to 50 Amps and circuit current-carrying conductors from 1 to 3 poles.

Product is available with an automatic or manual "safe start" reset feature. The enclosure, when mounted with the supplied gasket, achieves a UL NEMA Type 4X Rating. This module and breaker system is ideal for portable generator integration protecting all outlets on a generator. This system meets the proposed requirements for generators Underwriters Laboratory Standard 2201. UL/cUL 943 Listed, Class A 4-6mA trip level and UL1053 Compliant.

## GFCI Sensing Module, 50A Maximum

Description	Catalog Number
120V AC Sensing Module Auto	<b>GFSM120A</b>
120V AC Sensing Module Manual	<b>GFSM120M</b>
240V AC Sensing Module Auto	<b>GFSM240A</b>
240V AC Sensing Module Manual	<b>GFSM240M</b>



**GFSM120M**



**GFSMCB120401P**

## GFCI Sensing Module Circuit Breakers

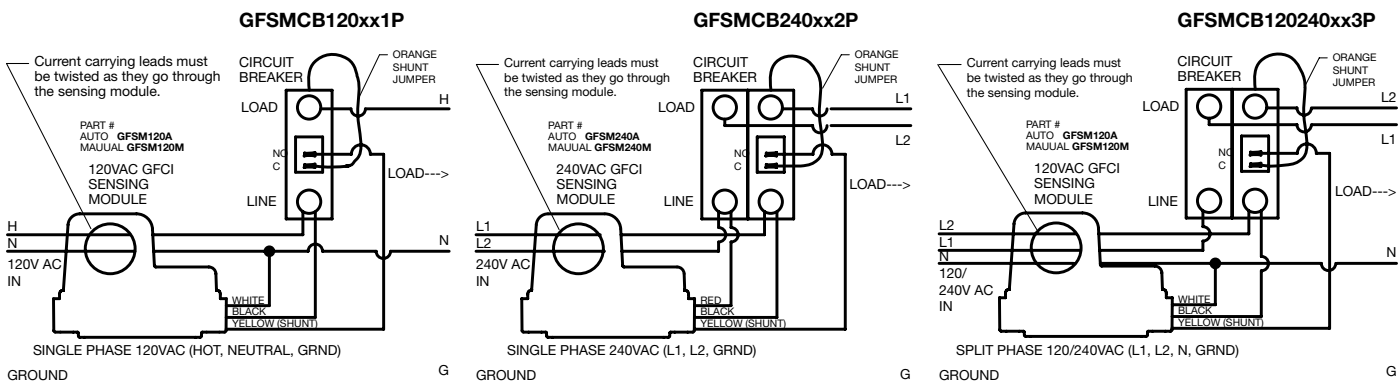
Catalog Number Configurator

Ground Fault Sensing Module Circuit Breaker	A/C Voltage	Amperage	Number of Poles	Sensing Module Required
<b>GFSMCB</b>	120	1 to 50	1	<b>GFSM120A or M</b>
	120		2	<b>GFSM120A or M</b>
	240		2	<b>GFSM240A or M</b>
	120/240		2	<b>GFSM120A or M</b>
	120/240		3	<b>GFSM120A or M</b>

Example Catalog Numbers: **GFSMCB120401P:** 120V, 40A, 1 Pole  
**GFSMCB240502P:** 240V, 50A, 2 Pole  
**GFSMCB120240203P:** 120/240V, 20A, 3 Pole

Note: Voltage tolerance +10% / -15%.  
 Consult factory for other available configurations.

## Wiring Schematics



Dimensions in Inches (mm)



## Circuit Guard® Wired On Industrial Portable GFCI Plug

Description	Rating	Catalog Number
GFCI plug, manual set, black.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	<b>GFP5266C</b>
GFCI plug, manual set, yellow.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	<b>GFP5266CY</b>
GFCI plug with 1 foot line cord, manual set, yellow, with connector body.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P, NEMA 5-15R.	<b>GFP1C</b>



**GFP5266CY**

## Circuit Guard® Wired On Commercial Portable GFCI Plug

Description	Rating	Catalog Number
GFCI plug, automatic set field wireable, black.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	<b>GFP515A</b>
GFCI plug, manual set field wireable, black.	2 pole, 3 wire grounding, 15A, 125V, NEMA 5-15P.	<b>GFP515M</b>



**GFP1C**

## Specifications

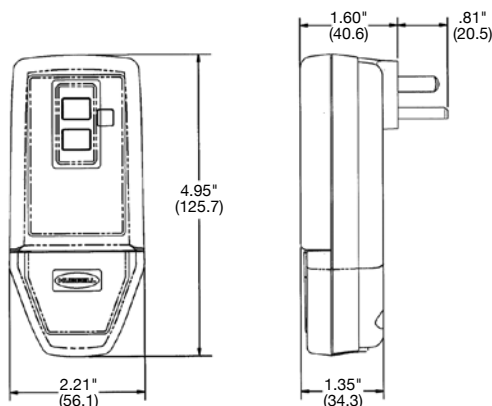
Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120V AC +10% – 15%. Incorporates no voltage release feature.
Amperage	15A.
Maximum Interrupting Capacity	2,000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact, UV stabilized material. UL94V-0 flammability classification.
Input	NEMA 5-15P.
Cord Range	16/3 – 12/3 Type SJ, 18/3 – 12/3 Type S.
Cord Type: Length (GFP1C)	14/3 Type SJTW-A (UL), SJTW (CSA); 1 foot; NEMA 5-15R.
Power "ON" Indication	Indicator light.
Listings	Meets UL943 Class A Listed, CSA Certified.
Codes	Meets all NEC® and CEC requirements.



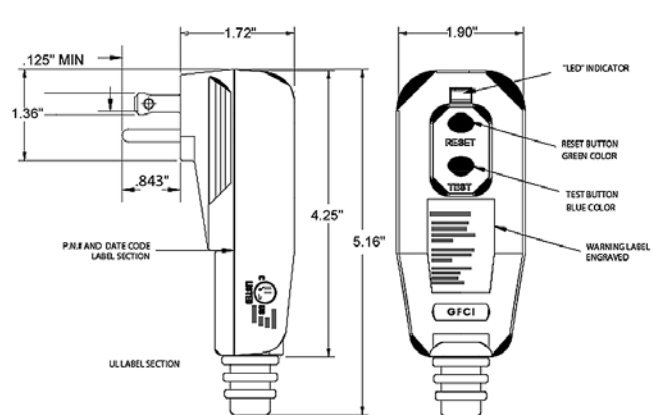
**GFP515A**

## Dimensions

**GFP5266C Series**



**GFP515 Series**



# Ground Fault Products

## Plug-In Portable GFCI and GFCI Tester



### Circuit Guard® Plug-In Portable GFCI

Description	Rating	Catalog Number
Three outlet plug-in.	15A, 120V AC	<b>GFP315A</b>



**GFP315A**

### Specifications

#### GFP315A

Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120V AC +10% – 15%. Incorporates no voltage release feature.
Amperage	15A.
Maximum Interrupting Capacity	2000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact ABS.
Input	NEMA 5-15P.
Output	3 NEMA 5-15R.
Fault Indication	Indicator light.
Center Screw	For optional permanent mounting.
Listings and Standards	Meets UL498 for receptacles, UL943 Class A for GFCIs UL File E41978, CSA Certified.
Codes	Meets all NEC® and CEC requirements.



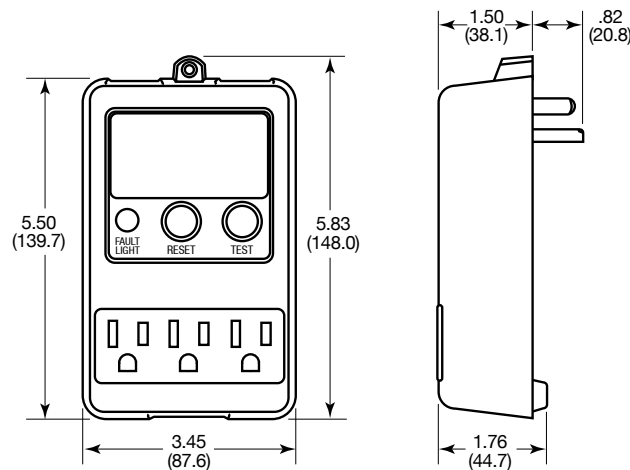
**GFT2G**

### GFCI Tester

Description	Rating	Catalog Number
Ground fault tester.	120V AC	<b>GFT2G</b>

- Designed to measure the trip level of portable or “wired-in” GFCI’s in a range of 2-7mA. Leakage level can be adjusted from 2-7mA.
- Ideal for measuring leakage level of GFCI breakers, GFCI portables and GFCI receptacles.

### Dimensions



Dimensions in Inches (mm)

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# Ground Fault Products

## Features and Benefits

### **Circuit Guard® Portable GFCI Line Cords**

Portable GFCI Line Cords provide ground fault protection both indoors and out. They interrupt electrical power for equipment loads when leakage to ground is 4-6 milliamperes. Available in lengths of 18" (45.7 cm), 6' (182.9 cm), and 25' (762 cm). A 15' (457.2 cm) OEM version with stripped leads is also available. They are offered with an Automatic Set or Manual Set feature to meet your application.



**GFP4C15M**



#### **Housing Design**

- High impact UV stabilized housing resists dust, sunlight and chemicals for long life
- Watertight GFCI housing for use in harsh environments
- Available in Automatic Set with yellow base or Manual Set with black base



#### **Molded Strain Relief**

- Heavy-duty molded strain relief prevents conductor strain and resulting failure



#### **Safety**

- One-piece flush sealed keypads for greater reliability and resistance to damage due to impact
- Bright fault indicator light provides fault confirmation from a distance



#### **Plug and Connector**

- Heavy-duty molded plug and connector for reliable connection
- Solid (not formed) plug blades are crimped and soldered for a better connection and longer life



**GFP4C15A**

### Circuit Guard® Portable GFCI Line Cords, 15A 120V AC

Description	Automatic Set.	Manual Set
18" (45.7 cm) GFCI line cord.	<b>GFP4C15A</b>	<b>GFP4C15M</b>
6' (182.9 cm) GFCI line cord.	<b>GFP6C15A</b>	<b>GFP6C15M</b>
25' (762.0 cm) GFCI line cord.	<b>GFP25C15A</b>	<b>GFP25C15M</b>
15' (457.2 cm) GFCI power supply cord with stripped leads.	<b>GFPOEMA*</b>	<b>GFPOEMM*</b>
50' (1524.0 cm) GFCI power supply with Elastogrip® watertight straight blade.	-	<b>GFP50C15WM</b>
100' (3048.0 cm) GFCI power supply with Elastogrip® watertight straight blade.	-	<b>GFP100C15WM</b>

Note: \*Total length is 15' 4.5" (468.6 cm) including leads: green 4.5" (114.3), black and white 3.5" (88.9). Each pre-stripped .375" (9.5).



**GFP25C15A**

### Circuit Guard® Portable GFCI Line Cords, 20A 120V AC

Description	Automatic Set.	Manual Set
3' (91.4 cm) GFCI line cord.	-	<b>GFP3C20M</b>

### Circuit Guard® Manual Set Twist-Lock Portable GFCI Line Cords

Description	15A 120V AC	20A 120V AC
3' (91.4 cm) GFCI line cord.	<b>GFP3C15MTL</b>	<b>GFP3C20MTL</b>



**GFP6C15M**

#### Automatic Set GFCI

Automatically energizes or sets the GFCI for use upon plug in and after the loss of primary power (power failure or unplugging the device). After a ground fault condition, unit must be reset by pushing the reset button. This feature eliminates the need for unit to be reset each time it is plugged in or powered up. Ideal for equipment intended for continuous use where a temporary power failure is likely and undesirable. Examples are pumps, pressure washers, portable signs or lighting and engine heaters.

#### Manual Set GFCI

Requires the GFCI to be manually set for use by pressing the reset button upon plug in and after loss of primary power (power failure or unplugging the device). Must be manually reset after a ground fault condition. Ideal for applications where operator injury might occur if equipment were to restart after a power failure. Typical equipment includes power drills, saws, lathes and grinders.



**GFPOEMM**

	Straight Blade	Twist-Lock®
Input	15A NEMA 5-15P, 20A NEMA 5-20P.	15A NEMA L5-15P HBL47CM20C, 20A NEMA L5-20P HBL23CM11.
Output	15A NEMA 5-15R (except GFPOEMM), 20A NEMA 5-20R.	15A NEMA L5-15R HBL47CM29C, 20A NEMA L5-20R HBL23CM13.

### Specifications

#### Portable GFCI Line Cords

Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120V AC +10% - 15%. Incorporates no voltage release feature.
Amperage	15A/20A.
Maximum Interrupting Capacity	2000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact, UV stabilized PVC. UL 94V-0 flammability classification. Meets UL and CSA watertight requirements. Adhesive bonded.
Cord Type	14/3 SJTW-A (UL), SJTW (CSA). Except GFP3C20M, GFP3C15MTL and GFP3C20MTL are 12/3 SJTW.
Visual Fault Indication Light On	Indicates fault.
Listing and Standards	Meets UL943 Class A, UL File E41978, CSA Certified.
Codes	Meets all NEC® and CEC requirements.

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**GFP3C20MTL**

## Commercial Grade, Portable GFCI Line Cords

### Circuit Guard® Portable GFCI Single Outlet, 15A 120V AC - 12/3 SJEOW

Description	Automatic Set.	Manual Set
2' (60.9 cm) GFCI line cord.	<b>GFP2CA</b>	<b>GFP2CM</b>
25' (762.0 cm) GFCI line cord.	<b>GFP25CA</b>	<b>GFP25CM</b>



GFP2CA

### Circuit Guard® Portable GFCI Triple Tap Outlet, 15A 120V AC - 12/3 SJEOW

Description	Automatic Set.	Manual Set
2' (60.9 cm) GFCI line cord.	<b>GFP2TTA</b>	<b>GFP2TTM</b>
25' (762.0 cm) GFCI line cord.	<b>GFP25TTA</b>	<b>GFP25TTM</b>



GFP2TTA

### Circuit Guard® OEM Equipment Integrated Cord Sets, 15A 120V AC - 14/3 SJEOW

Description	Automatic Set.	Manual Set
15' (457.2 cm) GFCI with flying leads.	<b>GFP15LA</b>	<b>GFP15LM</b>
35' (1066.8 cm) GFCI with flying leads.	<b>GFP35LA</b>	<b>GFP35LM</b>



GFP15LA

### 15A GFCI In Line GFCI, Single and Triple Tap, 15A 120V AC - 12/3 SJTW

Description	Automatic Set.	Manual Set
2' (60.9 cm), 5-15 single tap.	<b>GFPIL15125A</b>	<b>GFPIL15125M</b>
2' (60.9 cm), 5-15 triple tap.	<b>GFPIL15125TRIA</b>	<b>GFPIL15125TRIM</b>



GFPIL15125TRIM

### 20A GFCI In Line GFCI, Locking, 20A 120V AC - 12/3 SJTW

Description	Automatic Set.	Manual Set
2' (60.9 cm), L5-20 locking.	<b>GFPIL20125LKA</b>	<b>GFPIL20125LKM</b>

### 20A GFCI In Line GFCI, Locking, 20A 250V AC - 12/3 SJTW

Description	Automatic Set.	Manual Set
2' (60.9 cm), L6-20 locking.	<b>GFPIL20250LKA</b>	<b>GFPIL20250LKM</b>



GFPIL20125LKA

## Specifications

### Portable GFCI Line Cords

Trip Level	4 to 6 mA.
Trip Time	.025 sec. nominal.
Frequency	60 Hz.
Voltage	120/250V AC +10% - 15%. Incorporates no voltage release feature.
Amperage	15A/20A.
Maximum Interrupting Capacity	2000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Housing	High-impact, UV stabilized PVC. UL 94V-0 flammability classification. Meets UL and CSA watertight requirements. Adhesive bonded.
Visual Fault Indication Light On Listing and Standards	Indicates fault.
Codes	Meets UL943 Class A, UL File E41978, CSA Certified. Meets all NEC® and CEC requirements.



GFPIL20250LKM

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## IP21 SUITABILITY



**GFP15M**

### Multiple Outlet Portable GFCI

Description	Rating	Receptacles	Plug	Catalog Number
4 outlet, manual set, yellow.	15A, 120V AC	(2) Duplex 5-15R	NEMA 5-15P	<b>GFP15M</b>
4 outlet, manual set, yellow.	20A, 120V AC	(2) Duplex 5-20R	NEMA 5-20P	<b>GFP20M</b>



**GFM20**

### GFCI Module - UL Type 3R Rated

Description	Rating	Catalog Number
GFCI module, manual set, yellow.	20A, 120V AC, 60 Hz	<b>GFM20</b>
GFCI module, auto set, yellow.	20A, 120V AC, 60 Hz	<b>GFM20A</b>

## Specifications

	GFP15M / GFP20M	GFM20 / GFM20A
Trip Level	4 to 6 mA.	4 to 6 mA.
Trip Time	.025 sec. nominal.	.025 sec. nominal.
Frequency	60 Hz.	60 Hz.
Voltage	120V AC +10% - 15%. No voltage release feature.	120V AC +10% - 15%. No voltage release feature.
Maximum Interrupting Capacity	5000A.	5000A.
Current	15A / 20A.	20A / 20A Feed-through.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.	-35°C to 66°C or -30°F to 150°F.
Housing Rating	High-impact, yellow Valox® with protective lift covers.	High-impact, UV stabilized, rigid PVC. UL 94V-0 flammability classification. UL Type 3R Rated.
Input	5-15P, 15A / 5-20P, 20A. IP21 Suitability.	#12 AWG stranded conductors (black/white/green).
Output	5-15R(4), 15A / 5-20R(4), 20A.	#12 AWG stranded conductors (red/gray).
Power Supply Cord	6' (182.9 cm) STOW-A (STW FT2 CSA).	N/A.
Mounting Screws	N/A.	Self-tapping, combination, #6-32.
Power "ON" Indication	LED indicator light.	LED indicator light.
Agency Approvals	UL Listed, UL498 for receptacles. Meets UL943 Class A for GFCI's.	UL Listed, CSA Certified. Meets UL943 Class A for GFCI's.
Codes	Meets all NEC® and CEC requirements.	Meets all NEC® and CEC requirements.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.  
NEC® is a registered trademark of the National Fire Protection Association (NFPA).

## Applications

Power Generators  
Submersible Pumps  
Textile

Agricultural Equipment  
Cement Cutting Equipment  
Food Processing

Production Assembly Equipment  
Spa and Hot Tubs  
Vending Equipment



Automatic Reset GFCI

## Extra Heavy Duty Industrial Circuit Guard® Hard Wired 30A GFCI - UL Type 4X Rated

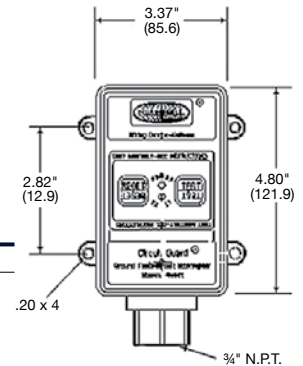
Description	Voltage	Alarm	Manual Set	Automatic Set
Hard wired, manual set and automatic set GFCIs.	120V AC	None	<b>GFHW13005</b>	<b>GFHW13105</b>
	120V AC	Audible	<b>GFHW13015</b>	<b>GFHW13115</b>
	240V AC	None	<b>GFHW23005</b>	<b>GFHW23105</b>
	240V AC	Audible	<b>GFHW23015</b>	<b>GFHW23115</b>
	120/240V AC	Audible	<b>GFHW33015</b>	<b>GFHW33115</b>
	3Ø 250V AC	None	<b>GFHW530</b>	<b>GFHW531</b>
	3Ø 120/208V AC	None	<b>GFHW430</b>	<b>GFHW431</b>



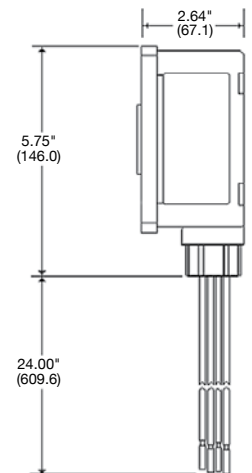
Manual Reset GFCI

## Specifications

Electrical Ratings	
Rated Voltage	120V AC, 240V AC, 120/240V AC, 3Ø 250V AC, 3Ø 120/208V AC.
Operating Voltage Range	85% to 110%.
Current	Up to 30A or device rating.
Frequency	60 Hz.
Trip Level	4-6 mA.
Phase	Single.
Response Time	.025 sec. Max.
Dielectric Withstand	1500 VRMS across contact, 4000 VRMS between conductors and enclosure.
Surge Withstand	6000V impulse, 0.5 microseconds rise time 100kHz ringing frequency with 40% decay per cycle.
Let Go Line Voltage	60% of rated.
Grounded Neutral Detection	6 Ohms or less.
Power Up	Manual or automatic reset.
Environmental Ratings	
Housing Rating	UL Type 4X.
Construction	Industrial grade design.
Type	Class A GFCI.
Operating Temperature	-35°C to 66°C, -30°F to 150°F.
Leakage Current @ 93% Humidity	Zero.
Features	
Life (Endurance)	10,000 cycles (6000 with load and 4000 without load). Open neutral protection Trips upon loss of neutral.
Grounded Neutral Protection	Trips if ground and neutral touch at load side.
Power On Indicator	Green light on.
Power Off Indicator	Red blinking light plus optional audible alarm.
Wiring Application	3 Wire Single Phase (Hot, Neutral and Ground), 4 Wire Single Phase (Line 1, Line 2, Neutral and Ground).
Switch Interface	Double Insulated.
Latching Mechanism	Electromagnetic.
Physical Specifications	
Wire Leads	#10 AWG, 24" long.
Unit Color	Gray with black cover.
Label Color on Portable and Hard Wired Units	Automatic reset: yellow background with black lettering. Manual reset: black background with yellow lettering.
Weight	1.40 lbs.



Dimensional Drawing



Side View

Dimensions in Inches (mm)

## Related Code

Confined Space	OSHA 29 CFR 1926.404 (b) (1) (ii) OSHA 29 CFR 1926.405 (a) (2) (ii) (G)
Construction Sites	NEC 590.6
Commercial Garages	NEC 511.12
Fountains	NEC 680.5B
Spas and Hot Tubs	NEC 680.40
Marinas	NEC 555.3

## Applications

Pressure Washers  
De-icing Equipment  
Pipeline Heaters

Portable Electric Heaters  
Material Dryers  
Automotive Garages

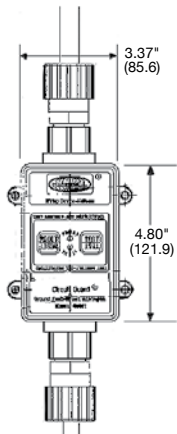
Portable Power Tools  
Submersible Pumps  
Outdoor Signage



GFP1311



GFPIL30250LKM



Dimensional Drawing

## Extra Heavy Duty Industrial Circuit Guard® Portable 30A GFCI - UL Type 4X Rated

Description	Cord Length	Voltage	Manual Set	Automatic Set
Portable, manual set and automatic set GFCIs.	2' (60.9 cm)	120V AC	<b>GFP1301</b>	<b>GFP1311</b>
	6' (182.9 cm)	120V AC	<b>GFP1305</b>	<b>GFP1315</b>
	25' (762.0 cm)	120V AC	<b>GFP1302</b>	<b>GFP1312</b>
	50' (1524.0 cm)	120V AC	<b>GFP1303</b>	<b>GFP1313</b>
	2' (60.9 cm)	240V AC	<b>GFP2301</b>	<b>GFP2311</b>
	25' (762.0 cm)	240V AC	<b>GFP2302</b>	<b>GFP2312</b>
	6' (182.9 cm)	120/240V AC	<b>GFP3305</b>	<b>GFP3315</b>
	6' (182.9 cm)	3Ø 250V AC	<b>GFP5305</b>	<b>GFP5315</b>
	6' (182.9 cm)	3Ø 120/208V AC	<b>GFP4305</b>	<b>GFP4315</b>

## Extra Heavy Duty Industrial Circuit Guard® 30A GFCI In Line GFCI - Locking

Description	Cord Length	Voltage	Manual Set	Automatic Set
L5-30 locking.	2' (60.9 cm)	120V AC	<b>GFPIL30125LKM</b>	<b>GFPIL30125LKA</b>
L6-30 locking.	2' (60.9 cm)	250V AC	<b>GFPIL30250LKM</b>	<b>GFPIL30250LKA</b>

## Plug and Connector Selector Chart (partial listing)

The chart below is a list of possible Hubbell plug and connector body products that can be used with the Hubbell Portable GFCIs.

Family	Style	Amps	Voltage	Hubbell Catalog Number
Insulgrip®	Straight Blade	15	120V AC	<b>HBL5266C &amp; HBL5269C</b>
Insulgrip®	Twist-Lock®	30	240V AC	<b>HBL2621 &amp; HBL2623</b>
Watertight Safety-Shroud®	Twist-Lock®	30	240V AC	<b>HBL2621SW &amp; HBL2623SW</b>
IEC Pin & Sleeve	Watertight Pin & Sleeve	30	240V AC	<b>HBL330P6W &amp; HBL330C6W</b>
Insulgrip® Pin & Sleeve	Insulgrip® Pin & Sleeve	30	240V AC	<b>HBL330PS2W &amp; HBL330CS2W</b>
Hubbellock®	Hubbellock®	20	120V AC	<b>HBL23035B &amp; HBL23032B</b>

## Specifications

Electrical Ratings	
Rated Voltage	120V AC, 240V AC, 120/240V AC, 3Ø 250V AC, 3Ø 120/208V AC.
Operating Voltage Range	85% to 110%.
Current	Up to 30A or device rating.
Frequency	60 Hz.
Trip Level	4-6 mA.
Response Time	25 mS Max.
Dielectric Withstand	1500 VRMS across contact, 4000 VRMS between conductors and enclosure.
Surge Withstand	6000V impulse, 0.5 microseconds rise time 100kHz ringing frequency with 40% decay per cycle.
Let Go Line Voltage Power Up	60% of rated. Manual or Automatic reset.
Environmental Ratings	
Housing Rating	UL Type 4X.
Construction Type	Industrial grade design. Meets UL943 Class A GFCI.
Operating Temperature	-35°C to 66°C, -30°F to 150°F.
Leakage Current @ 93% Humidity	Zero.

Features	
Life (Endurance)	10,000 cycles (6000 with load and 4000 without load).
Open Neutral Protection	Trips upon loss of neutral.
Grounded Neutral Protection	Trips if ground and neutral touch at load side.
Power On Indicator	Green light on.
Power Off Indicator	Red blinking light plus optional audible alarm.
Wiring Application	3 Wire Single Phase (Hot, Neutral and Ground). 4 Wire Single Phase (Line 1, Line 2, Neutral and Ground).
Switch interface	Double Insulated.
Latching Mechanism	Electromagnetic.
Physical Specifications	
Cord Type	2-50', 10/3 SJGOOW. 100', 8/3 SEOW.
Unit Color	Gray with black cover.
Label Color on Portable and Hard Wired Units	Automatic reset: Yellow background with black lettering. Manual reset: Black background with yellow lettering.
Weight	2 ft. 1.8 lbs., 6 ft. 2.7 lbs., 25 ft. 6.8 lbs., 50 ft. 12.4 lbs., 100 ft. 23.3 lbs.

## Related Code

Confined Space	OSHA 29 CFR 1926.404 (b) (1) (ii) OSHA 29 CFR 1926.405 (a) (2) (ii) (G)
Construction Sites	NEC 590.6
Commercial Garages	NEC 511.12
Outdoor Signs	NEC 600.10
Spas and Hot Tubs	NEC 680.40
Boat Yards	NEC 555.3

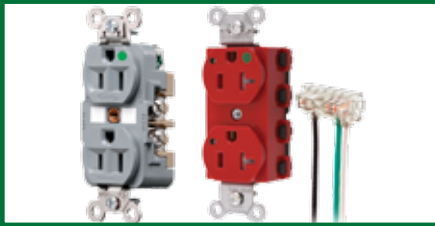
Dimensions in Inches (mm)

# SECTION L

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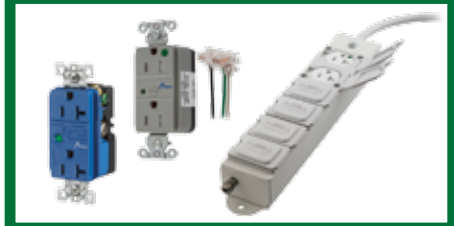
### HBL® Extra Heavy Duty Industrial Series



### Industrial and Commercial Series GFCIs



### Surge Protection Devices



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## Products at a Glance



### HBL® Extra Heavy Duty Hospital Grade

- Hospital Grade with green dot symbol
- One-piece nickel-plated integral ground strap
- ID marking surface for quick circuit identification
- Square head, 10-thread bronze center rivet
- Deep nylon body design increases impact and chemical resistance



### Extra Heavy Duty SNAPConnect®

- Hospital and Specification Grade
- Tamper-Resistant, NOT Plug Resistant™
- Power indicating LED
- Steel mounting strap, self-grounding
- Compact size requires minimal space



### Hubbell-PRO Heavy Duty

- Hospital and Specification Grade
- Tamper-Resistant, NOT Plug Resistant™
- Power LED feature
- Circuit ID marking area
- Steel mounting strap, self-grounding
- Assembled in USA



### USB Charger Receptacles

- Two Type-C, Type A&C and Type A port configurations, high power 5 Amp, 5 Volt USB output
- Heavy duty stainless steel USB ports; rated for 10,000 cord insertions and removals
- Patented Hubbell Tamper-Resistant technology uses cam action shutters. The friction-free design of the mechanism's doors requires much less force
- Available in SNAPConnect®



### 4-PLEX Receptacles

- Hospital Grade and Surge
- Mounts directly to 4-inch square box
- "A" and "B" circuit ID molded into face
- Removable knockouts for mounting to octagon concrete ring or box
- Heavy duty, triple wipe, brass power and ground contacts



### SpikeShield® Surge Suppression Plug Strips

- UL2930 HCOA's
- UL1449 SPD's available
- 15A and 20A versions
- 6 foot or 15 foot cords available
- USB versions in several models



### Hubbelock® Devices

- Nylon cover, thermoset interior
- Armored, epoxy filled, rubber cord grip
- Black, back wired
- Mobile X-Ray devices



# Hospital Products

## Features and Benefits

### Hubbell “Hospital Grade” Devices

UL requirements for Hospital Grade devices is more stringent than those for standard devices. Hubbell receptacles are designed to meet and exceed the standards.

- Exclusive nickel-plated bypass contact design increases contact pressure, lowering the operating temperature.
- Four point grounding system provides redundant grounding for low resistance ground continuity in high abuse areas.
- High tech reinforced thermoplastic polyester (RTP) back is tough and heat resistant.

Because of these features and others, the benefit is performance, reliability, and value for any health care facility.



HBL8200GY



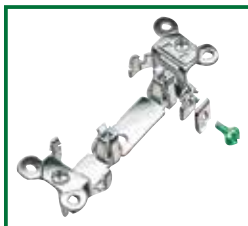
#### Housing Design

- Reinforced thermoplastic base provides superior thermal, electrical and mechanical properties
- Providing contact stability, this high performance material will reduce heat buildup giving you long lasting performance
- Deep body design increases impact and chemical resistance



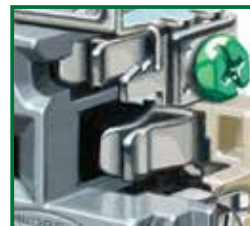
#### Terminals

- External wiring clamps allow for visual inspection of the terminals
- Unique strand containment feature on the terminal “bundles” the wire, ensuring 100% clamping of wire strands and reducing heat from the termination



#### One-Piece Mounting Strap

- Back wired ground terminal allows faster, easier installation
- One-piece nickel-plated brass integral ground strap for greater corrosion resistance
- Patented ground contact provides redundant grounding



#### Contacts

- Exclusive bypass contacts are made of nickel-plated brass alloy, increasing blade retention, insuring reliable uninterrupted flow of power
- Barbed assembly arms reduce possibility of face/base separation



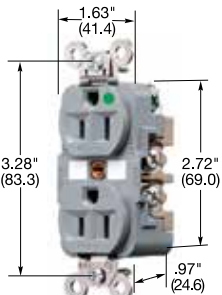
#### Identification

- I.D. marking surface provides quick, sure circuit identification
- All Hospital Grade devices are marked with the green dot symbol, required by UL

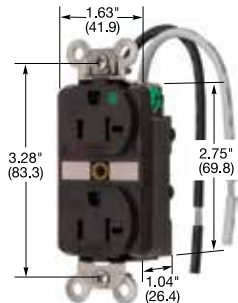


#### Center Rivet

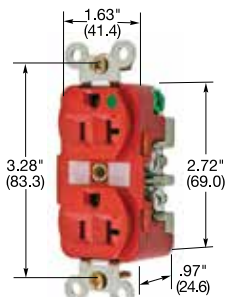
- Square head, 10-thread bronze center rivet won't rotate, reduces stripping and resists corrosion



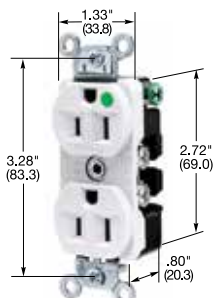
**HBL8200GY**



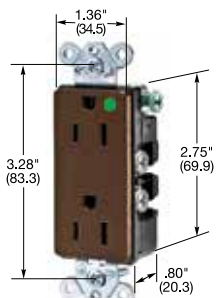
**HBL8300SGA**



**HBL8300RMRI**



**HBL8200ILW**



**HBL2172**

Dimensions in Inches (mm)

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

## HBL® Extra Heavy Duty Hospital Grade Receptacles

### Duplex

Description	Color	Catalog Number	
Flush, thermoplastic polyester face, back and side wired.	Black	<b>HBL8200BK</b>	-
	Blue	-	<b>HBL8300BL</b>
	Brown	<b>HBL8200</b>	<b>HBL8300</b>
	Gray	<b>HBL8200GY</b>	<b>HBL8300GY</b>
	Ivory	<b>HBL8200I</b>	<b>HBL8300I</b>
	Light Almond	<b>HBL8200LA</b>	<b>HBL8300LA</b>
	Red	<b>HBL8200RED</b>	<b>HBL8300RED</b>
	White	<b>HBL8200W</b>	<b>HBL8300W</b>
Flush, LED illuminated face, back and side wired.	Gray	<b>HBL8200ILGY</b>	<b>HBL8300ILGY</b>
	Ivory	<b>HBL8200ILI</b>	<b>HBL8300ILI</b>
	Red	<b>HBL8200ILR</b>	<b>HBL8300ILR</b>
	White	<b>HBL8200ILW</b>	<b>HBL8300ILW</b>
Tamper-Resistant receptacle with wire leads. Complies with requirements of NEC® article 517-18(c).	Brown	<b>HBL8200SGA</b>	<b>HBL8300SGA</b>
	Gray	<b>HBL8200SGGYA</b>	<b>HBL8300SGGYA</b>
	Ivory	<b>HBL8200SGIA</b>	<b>HBL8300SGIA</b>
	Light Almond	<b>HBL8200SGLA</b>	<b>HBL8300SGLA</b>
	Red	<b>HBL8200SGRA</b>	<b>HBL8300SGRA</b>
	White	<b>HBL8200SGWA</b>	<b>HBL8300SGWA</b>
Isolated ground <sup>A</sup> .	Orange	<b>IG8200</b>	<b>IG8300</b>
	Red	<b>IG8200R</b>	<b>IG8300R</b>

### MRI Receptacle, Duplex

Description	Color	Catalog Number	
MRI receptacle, flush, thermoplastic polyester face, back and side wired.	Ivory	<b>HBL8200IMRI</b>	<b>HBL8300IMRI</b>
	Light Almond	<b>HBL8200LAMRI</b>	<b>HBL8300LAMRI</b>
	Red	<b>HBL8200RMRI</b>	<b>HBL8300RMRI</b>
	White	<b>HBL8200WMRI</b>	<b>HBL8300WMRI</b>

### Slender/Compact, Duplex

Description	Color	Catalog Number	
Flush, thermoplastic polyester face, back, and side wired. Fed. Spec. verified.	Brown	<b>HBL8200H</b>	<b>HBL8300H</b>
	Gray	<b>HBL8200HG</b>	<b>HBL8300HG</b>
	Green	-	<b>HBL8300HGN</b>
	Ivory	<b>HBL8200HI</b>	<b>HBL8300HI</b>
	Light Almond	<b>HBL8200HLA</b>	<b>HBL8300HLA</b>
	Red	<b>HBL8200HRED</b>	<b>HBL8300HRED</b>
	White	<b>HBL8200HW</b>	<b>HBL8300HW</b>

### Style Line® Decorator\*

Description	Color	Catalog Number	
Flush, nylon face, back and side wired.	Brown	<b>HBL2172</b>	<b>HBL2182</b>
	Gray	<b>HBL2172GY</b>	<b>HBL2182GY</b>
	Ivory	<b>HBL2172I</b>	<b>HBL2182I</b>
	Office White	-	<b>HBL2182OW</b>
	Red	<b>HBL2172R</b>	<b>HBL2182R</b>
	White	<b>HBL2172WA</b>	<b>HBL2182WA</b>
Isolated ground <sup>A</sup> .	Ivory	-	<b>IG2182I</b>
	Orange	-	<b>IG2182</b>
	White	-	<b>IG2182WA</b>

Note: <sup>A</sup>See section M for additional information on isolated ground devices.

\*Not Fed. Spec. Listed.

See pages A-48 and A-49 for accessories.

See page Tech-10 for Tamper-Resistant description.

See section N for wallplates.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP

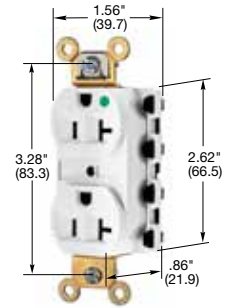


**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

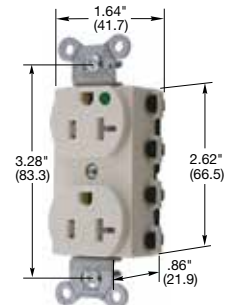
## Extra Heavy Duty Hospital Grade ● SNAPConnect®

### Duplex

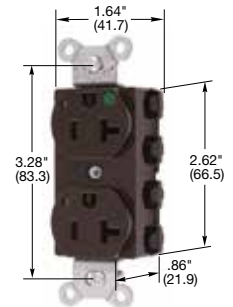
Description	Color	Catalog Number	
Hospital grade, finder groove, nylon face, modular receptacle which requires pigtailed connector below.	Black	<b>SNAP8200BKA</b>	<b>SNAP8300BKA</b>
	Brown	<b>SNAP8200A</b>	<b>SNAP8300A</b>
	Gray	<b>SNAP8200GYA</b>	<b>SNAP8300GYA</b>
	Ivory	<b>SNAP8200IA</b>	<b>SNAP8300IA</b>
	Light Almond	<b>SNAP8200LAA</b>	<b>SNAP8300LAA</b>
	Red	<b>SNAP8200RA</b>	<b>SNAP8300RA</b>
	White	<b>SNAP8200WA</b>	<b>SNAP8300WA</b>
Hospital grade, smooth nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP8200BKNA</b>	<b>SNAP8300BKNA</b>
	Brown	<b>SNAP8200NA</b>	<b>SNAP8300NA</b>
	Gray	<b>SNAP8200GYNA</b>	<b>SNAP8300GYNA</b>
	Ivory	<b>SNAP8200INA</b>	<b>SNAP8300INA</b>
	Light Almond	<b>SNAP8200LANA</b>	<b>SNAP8300LANA</b>
	Red	<b>SNAP8200RNA</b>	<b>SNAP8300RNA</b>
	White	<b>SNAP8200WNA</b>	<b>SNAP8300WNA</b>
Hospital grade, Tamper-Resistant, smooth nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP8200BKTRA</b>	<b>SNAP8300BKTRA</b>
	Brown	<b>SNAP8200TRA</b>	<b>SNAP8300TRA</b>
	Gray	<b>SNAP8200GYTRA</b>	<b>SNAP8300GYTRA</b>
	Ivory	<b>SNAP8200ITRA</b>	<b>SNAP8300ITRA</b>
	Light Almond	<b>SNAP8200LATRA</b>	<b>SNAP8300LATRA</b>
	Red	<b>SNAP8200RTRA</b>	<b>SNAP8300RTRA</b>
	White	<b>SNAP8200WTRA</b>	<b>SNAP8300WTRA</b>
Hospital grade, Tamper-Resistant, Split Circuit, smooth nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP8200BKSCTRA</b>	<b>SNAP8300BKSCTRA</b>
	Brown	<b>SNAP8200SCTRA</b>	<b>SNAP8300SCTRA</b>
	Gray	<b>SNAP8200GYSCTRA</b>	<b>SNAP8300GYSCTRA</b>
	Ivory	<b>SNAP8200ISCTRA</b>	<b>SNAP8300ISCTRA</b>
	Light Almond	<b>SNAP8200LASCTRA</b>	<b>SNAP8300LASCTRA</b>
	Red	<b>SNAP8200RSCTRA</b>	<b>SNAP8300RSCTRA</b>
	White	<b>SNAP8200WSCTRA</b>	<b>SNAP8300WSCTRA</b>
Isolated ground <sup>A</sup> , Hospital grade, Tamper-Resistant.	Orange	<b>SNAP8200IGTRA</b>	<b>SNAP8300IGTRA</b>
Red	<b>SNAP8200RIGTRA</b>	<b>SNAP8300RIGTRA</b>	
Hospital grade, with Power Indicating LED, smooth nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP8200BKL</b>	<b>SNAP8300BKL</b>
	Brown	<b>SNAP8200L</b>	<b>SNAP8300L</b>
	Gray	<b>SNAP8200GYL</b>	<b>SNAP8300GYL</b>
	Ivory	<b>SNAP8200IL</b>	<b>SNAP8300IL</b>
	Light Almond	<b>SNAP8200LAL</b>	<b>SNAP8300LAL</b>
	Red	<b>SNAP8200RL</b>	<b>SNAP8300RL</b>
	White	<b>SNAP8200WL</b>	<b>SNAP8300WL</b>
Isolated ground <sup>A</sup> , Hospital grade, with Power Indicating LED.	Orange	<b>SNAP8200IGL</b>	<b>SNAP8300IGL</b>
Red	<b>SNAP8200RIGL</b>	<b>SNAP8300RIGL</b>	
Hospital grade, Tamper-Resistant, with Power Indicating LED, smooth nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP8200BKLTRA</b>	<b>SNAP8300BKLTRA</b>
	Brown	<b>SNAP8200LTRA</b>	<b>SNAP8300LTRA</b>
	Gray	<b>SNAP8200GYLTRA</b>	<b>SNAP8300GYLTRA</b>
	Ivory	<b>SNAP8200ILTRA</b>	<b>SNAP8300ILTRA</b>
	Light Almond	<b>SNAP8200LALTRA</b>	<b>SNAP8300LALTRA</b>
	Red	<b>SNAP8200RLTRA</b>	<b>SNAP8300RLTRA</b>
	White	<b>SNAP8200WLTRA</b>	<b>SNAP8300WLTRA</b>
Isolated ground <sup>A</sup> , Hospital grade, TR with Power Indicating LED.	Orange	<b>SNAP8200IGLTRA</b>	<b>SNAP8300IGLTRA</b>
	Red	<b>SNAP8200RIGLTRA</b>	<b>SNAP8300RIGLTRA</b>



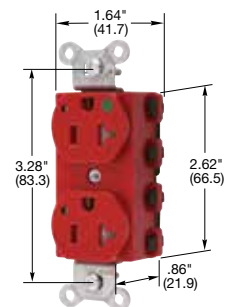
**SNAP8300WA**



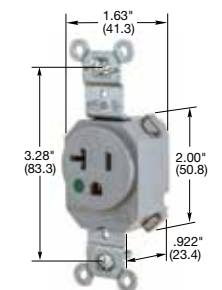
**SNAP8300LATR**



**SNAP8300L**



**SNAP8300RLTR**



**SNAP8310GY**

Dimensions in Inches (mm)

### SNAPConnect® Extra Heavy Duty Hospital Grade Single Receptacles

Color	Hospital Grade ●		Hospital Grade ● Tamper-Resistant	
	15A 125V	20A 125V	15A 125V	20A 125V
Almond	<b>SNAP8210AL</b>	<b>SNAP8310AL</b>	<b>SNAP8210ALTR</b>	<b>SNAP8310ALTR</b>
Black	<b>SNAP8210BK</b>	<b>SNAP8310BK</b>	<b>SNAP8210BKTR</b>	<b>SNAP8310BKTR</b>
Blue	<b>SNAP8210BL</b>	<b>SNAP8310BL</b>	<b>SNAP8210BLTR</b>	<b>SNAP8310BLTR</b>
Brown	<b>SNAP8210</b>	<b>SNAP8310</b>	<b>SNAP8210TR</b>	<b>SNAP8310TR</b>
Gray	<b>SNAP8210GY</b>	<b>SNAP8310GY</b>	<b>SNAP8210GYTR</b>	<b>SNAP8310GYTR</b>
Ivory	<b>SNAP8210I</b>	<b>SNAP8310I</b>	<b>SNAP8210ITR</b>	<b>SNAP8310ITR</b>
Light Almond	<b>SNAP8210LA</b>	<b>SNAP8310LA</b>	<b>SNAP8210LATR</b>	<b>SNAP8310LATR</b>
Red	<b>SNAP8210R</b>	<b>SNAP8310R</b>	<b>SNAP8210RTR</b>	<b>SNAP8310RTR</b>
White	<b>SNAP8210W</b>	<b>SNAP8310W</b>	<b>SNAP8210WTR</b>	<b>SNAP8310WTR</b>

**IP20**  
SUITABILITY




**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

## Extra Heavy Duty Hospital Grade ● SNAPConnect®

### Style Line® Decorator

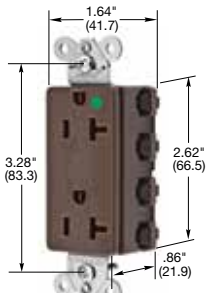
Description	Color	Catalog Number	
Hospital grade, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below.	Black	<b>SNAP2172BKA</b>	<b>SNAP2182BKA</b>
	Brown	<b>SNAP2172A</b>	<b>SNAP2182A</b>
	Gray	<b>SNAP2172GYA</b>	<b>SNAP2182GYA</b>
	Ivory	<b>SNAP2172IA</b>	<b>SNAP2182IA</b>
	Light Almond	<b>SNAP2172LAA</b>	<b>SNAP2182LAA</b>
	Red	<b>SNAP2172RA</b>	<b>SNAP2182RA</b>
	White	<b>SNAP2172WA</b>	<b>SNAP2182WA</b>
Hospital grade, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP2172BKNA</b>	<b>SNAP2182BKNA</b>
	Brown	<b>SNAP2172NA</b>	<b>SNAP2182NA</b>
	Gray	<b>SNAP2172GYNA</b>	<b>SNAP2182GYNA</b>
	Ivory	<b>SNAP2172INA</b>	<b>SNAP2182INA</b>
	Light Almond	<b>SNAP2172LANA</b>	<b>SNAP2182LANA</b>
	Red	<b>SNAP2172RNA</b>	<b>SNAP2182RNA</b>
	White	<b>SNAP2172WNA</b>	<b>SNAP2182WNA</b>
 Hospital grade, Tamper-Resistant, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP2172BKTRA</b>	<b>SNAP2182BKTRA</b>
	Brown	<b>SNAP2172TRA</b>	<b>SNAP2182TRA</b>
	Gray	<b>SNAP2172GYTRA</b>	<b>SNAP2182GYTRA</b>
	Ivory	<b>SNAP2172ITRA</b>	<b>SNAP2182ITRA</b>
	Light Almond	<b>SNAP2172LATRA</b>	<b>SNAP2182LATRA</b>
	Red	<b>SNAP2172RTRA</b>	<b>SNAP2182RTRA</b>
	White	<b>SNAP2172WTRA</b>	<b>SNAP2182WTRA</b>
 Hospital grade, Tamper-Resistant, Split Circuit, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP2172BKSCTRA</b>	<b>SNAP2182BKSCTRA</b>
	Brown	<b>SNAP2172SCTRA</b>	<b>SNAP2182SCTRA</b>
	Gray	<b>SNAP2172GYSCTRA</b>	<b>SNAP2182GYSCTRA</b>
	Ivory	<b>SNAP2172ISCTRA</b>	<b>SNAP2182ISCTRA</b>
	Light Almond	<b>SNAP2172LASCTRA</b>	<b>SNAP2182LASCTRA</b>
	Red	<b>SNAP2172RSCTRA</b>	<b>SNAP2182RSCTRA</b>
	White	<b>SNAP2172WSCTRA</b>	<b>SNAP2182WSCTRA</b>
Isolated ground <sup>A</sup> , Hospital grade, Tamper-Resistant.	Orange	<b>SNAP2172IGTRA</b>	<b>SNAP2182IGTRA</b>
	Red	<b>SNAP2172RIGTRA</b>	<b>SNAP2182RIGTRA</b>
 Hospital grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP2172BKL</b>	<b>SNAP2182BKL</b>
	Brown	<b>SNAP2172L</b>	<b>SNAP2182L</b>
	Gray	<b>SNAP2172GYL</b>	<b>SNAP2182GYL</b>
	Ivory	<b>SNAP2172IL</b>	<b>SNAP2182IL</b>
	Light Almond	<b>SNAP2172LAL</b>	<b>SNAP2182LAL</b>
	Red	<b>SNAP2172RL</b>	<b>SNAP2182RL</b>
	White	<b>SNAP2172WL</b>	<b>SNAP2182WL</b>
Isolated ground <sup>A</sup> , Hospital grade, with Power Indicating LED.	Orange	<b>SNAP2172IGL</b>	<b>SNAP2182IGL</b>
	Red	<b>SNAP2172RIGL</b>	<b>SNAP2182RIGL</b>
  Hospital grade, Tamper-Resistant, with Power Indicating LED, Style Line® decorator, flush, nylon face, modular receptacle which requires pigtailed connector below. Assembled in USA.	Black	<b>SNAP2172BKLTR</b>	<b>SNAP2182BKLTR</b>
	Brown	<b>SNAP2172LTR</b>	<b>SNAP2182LTR</b>
	Gray	<b>SNAP2172GYLTR</b>	<b>SNAP2182GYLTR</b>
	Ivory	<b>SNAP2172ILTR</b>	<b>SNAP2182ILTR</b>
	Light Almond	<b>SNAP2172LALTR</b>	<b>SNAP2182LALTR</b>
	Red	<b>SNAP2172RLTR</b>	<b>SNAP2182RLTR</b>
	White	<b>SNAP2172WLTR</b>	<b>SNAP2182WLTR</b>
Isolated ground <sup>A</sup> , Hospital grade, TR with Power Indicating LED.	Orange	<b>SNAP2172IGLTR</b>	<b>SNAP2182IGLTR</b>
	Red	<b>SNAP2172RIGLTR</b>	<b>SNAP2182RIGLTR</b>

Note: <sup>A</sup>See section M additional information on isolated ground devices.  
See page A-16 for additional information on SNAPConnect® features.  
See page Tech-10 for Tamper-Resistant and LED Power Indicators description.  
See pages A-50 and A-51 for accessories.  
See section N for wallplates.

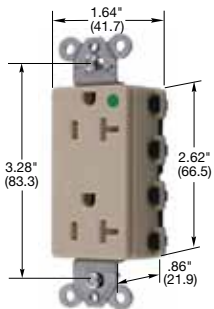
### SNAPConnect® Right Angle Pigtailed Connector

Description	Wire Type	General Use	Assembled in USA
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2; Polycarbonate housing material	Solid	<b>SNAP1RA</b>	<b>SNAP1RNA</b>
	Stranded	<b>SNAP2RA</b>	<b>SNAP2RNA</b>

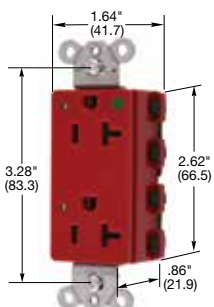
Note: For Assembled in USA products, must order connector with NA suffix.



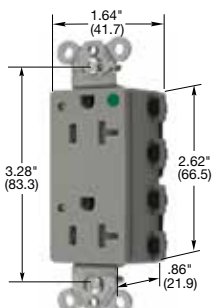
SNAP2182A



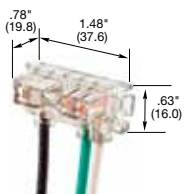
SNAP2182ITR



SNAP2182RL



SNAP2182GYLTR



SNAP1RA

Dimensions in Inches (mm)



## SNAPConnect® GFCI LED Hospital Grade ●, Assembled in USA

Description	Rating	Color	Catalog Number	
Hospital Grade SNAPConnect GFCI LED, self-grounding staple, requires connector below, sold separately.	15 and 20A 125V AC	Almond	<b>GFRST82SNAPAL</b>	<b>GFRST83SNAPAL</b>
		Black	<b>GFRST82SNAPBK</b>	<b>GFRST83SNAPBK</b>
		Brown	<b>GFRST82SNAP</b>	<b>GFRST83SNAP</b>
		Gray	<b>GFRST82SNAPGY</b>	<b>GFRST83SNAPGY</b>
		Ivory	<b>GFRST82SNAPI</b>	<b>GFRST83SNAPI</b>
		Light Almond	<b>GFRST82SNAPLA</b>	<b>GFRST83SNAPLA</b>
		Red	<b>GFRST82SNAPR</b>	<b>GFRST83SNAPR</b>
		White	<b>GFRST82SNAPW</b>	<b>GFRST83SNAPW</b>



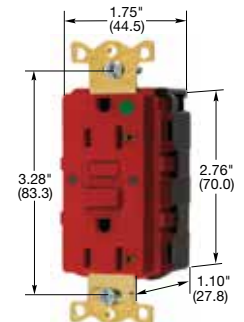
15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



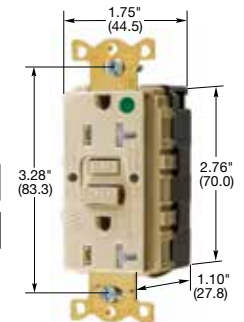
Meets UL  
Standard 943  
Class A GFCI



GFRST83SNAPR

## SNAPConnect® GFCI LED Hospital Grade ●, Tamper and Weather Resistant, Assembled in USA

Description	Rating	Color	Catalog Number	
Hospital Grade SNAPConnect GFCI TR/WR, self-grounding staple, requires connector below, sold separately.	15 and 20A 125V AC	Almond	<b>GFTWRST82SNAPAL</b>	<b>GFTWRST83SNAPAL</b>
		Black	<b>GFTWRST82SNAPBK</b>	<b>GFTWRST83SNAPBK</b>
		Brown	<b>GFTWRST82SNAP</b>	<b>GFTWRST83SNAP</b>
		Gray	<b>GFTWRST82SNAPGY</b>	<b>GFTWRST83SNAPGY</b>
		Ivory	<b>GFTWRST82SNAPI</b>	<b>GFTWRST83SNAPI</b>
		Light Almond	<b>GFTWRST82SNAPLA</b>	<b>GFTWRST83SNAPLA</b>
		Red	<b>GFTWRST82SNAPR</b>	<b>GFTWRST83SNAPR</b>
		White	<b>GFTWRST82SNAPW</b>	<b>GFTWRST83SNAPW</b>



GFTWRST83SNAPI

## SNAPConnect® USB Charger Hospital Grade ●, Duplex Receptacles

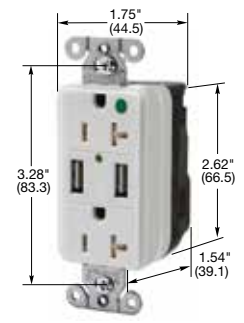
Description	Color	Catalog Number	
Hospital Grade SNAPConnect USB Charger, Tamper-Resistant Style Line® decorator duplex receptacle, two USB type 2.0 ports 3 Amp, 5 Volt DC, 15 or 20 Amp, 125 Volt AC.	Black	<b>SNAP8200USBBK</b>	<b>SNAP8300USBBK</b>
	Brown	<b>SNAP8200USB</b>	<b>SNAP8300USB</b>
	Gray	<b>SNAP8200USBGY</b>	<b>SNAP8300USBGY</b>
	Ivory	<b>SNAP8200USBI</b>	<b>SNAP8300USBI</b>
	Light Almond	<b>SNAP8200USBLA</b>	<b>SNAP8300USBLA</b>
	Red	<b>SNAP8200USBR</b>	<b>SNAP8300USBR</b>
	White	<b>SNAP8200USBW</b>	<b>SNAP8300USBW</b>



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



SNAP8300USBW

## SNAPConnect® Surge Protection Hospital Grade ●, Tamper-Resistant Receptacle with Power Indicating LED

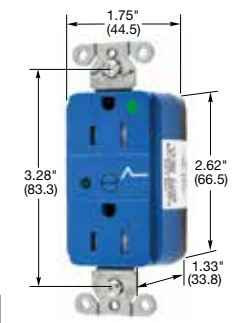
Description	Color	Catalog Number	
Hospital Grade SNAPConnect Surge suppression, Tamper-Resistant, smooth face, duplex receptacle.	Blue	<b>SNAP8262S</b>	<b>SNAP8362S</b>
	Gray	<b>SNAP8262GYS</b>	<b>SNAP8362GYS</b>
	Ivory	<b>SNAP8262IS</b>	<b>SNAP8362IS</b>
	Light Almond	<b>SNAP8262LAS</b>	<b>SNAP8362LAS</b>
	Red	<b>SNAP8262RS</b>	<b>SNAP8362RS</b>
	White	<b>SNAP8262WS</b>	<b>SNAP8362WS</b>



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



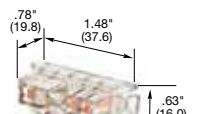
20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



SNAP8262S

## SNAPConnect® Right Angle Pigtailed Terminal

Description	Wire Type	General Use	Assembled in USA
Clear right angle terminal with 6 inch leads, 600V, #12 AWG THHN/THWN-2, Polycarbonate housing material.	Solid	<b>SNAP1RA</b>	<b>SNAP1RNA</b>
	Stranded	<b>SNAP2RA</b>	<b>SNAP2RNA</b>



SNAP1RA

Note: See page Tech-10 for Tamper-Resistant and Weather Resistant descriptions.

Dimensions in Inches (mm)



## Features and Benefits

### Hubbell-PRO Heavy Duty Receptacles

- Automatic self-grounding staple
- Combination Tamper-Resistant and LED for pediatric emergency circuits
- Nylon face and base construction
- Circuit ID marking area
- Back and side wiring
- Tri drive screws
- Steel mounting strap



8200REDLTRA



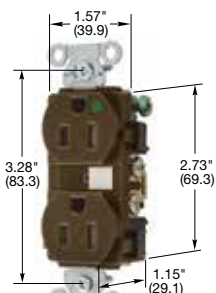
15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



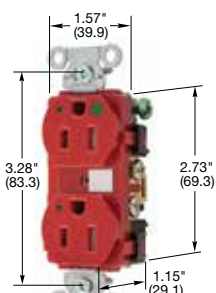
20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



8200LA



8200TRA



8200REDLTRA

Dimensions in Inches (mm)

### Hubbell-PRO Heavy Duty Hospital Grade ● Receptacles

#### Duplex

Description	Color	Catalog Number	
Hospital grade, smooth nylon face, back and side wired. Assembled in USA.	Black	8200BK	8300BK
	Brown	8200	8300
	Gray	8200GY	8300GY
	Ivory	8200IV	8300IV
	Light Almond	8200LA	8300LA
	Red	8200RED	8300RED
	White	8200WHI	8300WHI
Hospital grade, Tamper-Resistant, smooth nylon face, back and side wired. Assembled in USA.	Black	8200BKTRA	8300BKTRA
	Brown	8200TRA	8300TRA
	Gray	8200GYTRA	8300GYTRA
	Ivory	8200IVTRA	8300IVTRA
	Light Almond	8200LATRA	8300LATRA
	Red	8200REDTRA	8300REDTRA
	White	8200WTRA	8300WTRA
Hospital grade, with Power Indicating LED, smooth nylon face, back and side wired. Assembled in USA.	Black	8200BKL	8300BKL
	Brown	8200L	8300L
	Gray	8200GYL	8300GYL
	Ivory	8200IVL	8300IVL
	Light Almond	8200LAL	8300LALM
	Red	8200REDL	8300REDL
	White	8200WL	8300WL
Hospital grade, Tamper-Resistant, with Power Indicating LED, smooth nylon face, back and side wired. Assembled in USA.	Black	8200BKLTRA	8300BKLTRA
	Brown	8200LTRA	8300LTRA
	Gray	8200GYLTRA	8300GYLTRA
	Ivory	8200IVLTRA	8300IVLTRA
	Light Almond	8200LALTRA	8300LALTRA
	Red	8200REDLTRA	8300REDLTRA
	White	8200WLTRA	8300WLTRA

Note: See pages A-48 and A-49 for accessories.

See page Tech-10 for Tamper-Resistant and LED Power Indicators description.

See section N for wallplates.

**The products listed on this page are Assembled in USA, and many are Buy American Compliant. Please contact Hubbell with any certification requirements.**

## Features and Benefits

### Hubbell-PRO Heavy Duty Receptacles

- Automatic self-grounding staple
- Combination Tamper-Resistant and LED for pediatric emergency circuits
- Nylon face and base construction
- Circuit ID marking area
- Back and side wiring
- Tri drive screws
- Steel mounting strap



2182IVLTRA



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP

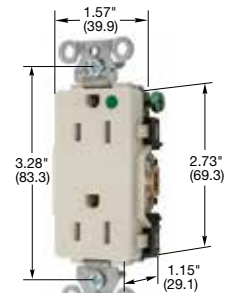


20A 125V  
NEMA 5-20R  
UL CSA  
1 HP

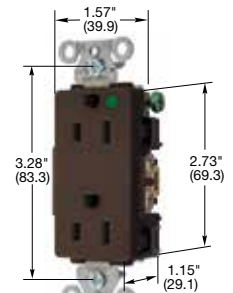
### Hubbell-PRO Heavy Duty Hospital Grade Receptacles

#### Style Line® Decorator

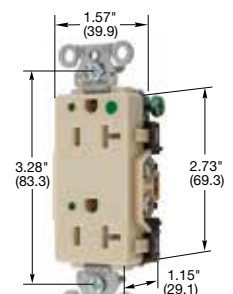
Description	Color	Catalog Number	
Hospital grade, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	2172BK	2182BK
	Brown	2172	2182
	Gray	2172GY	2182GY
	Ivory	2172IV	2182IV
	Light Almond	2172LA	2182LA
	Red	2172RED	2182RED
	White	2172W	2182W
Hospital grade, Tamper-Resistant, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	2172BKTRA	2182BKTRA
	Brown	2172TRA	2182TRA
	Gray	2172GYTRA	2182GYTRA
	Ivory	2172IVTRA	2182IVTRA
	Light Almond	2172LATRA	2182LATRA
	Red	2172REDTRA	2182REDTRA
	White	2172WTRA	2182WTRA
Hospital grade, with Power Indicating LED, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	2172BKL	2182BKL
	Brown	2172L	2182L
	Gray	2172GYL	2182GYL
	Ivory	2172IVL	2182IVL
	Light Almond	2172LAL	2182LAL
	Red	2172REDL	2182REDL
	White	2172WL	2182WL
Hospital grade, Tamper-Resistant, with Power Indicating LED, Style Line® decorator, flush, nylon face, back and side wired. Assembled in USA.	Black	2172BKLTRA	2182BKLTRA
	Brown	2172LTRA	2182LTRA
	Gray	2172GYLTRA	2182GYLTRA
	Ivory	2172IVLTRA	2182IVLTRA
	Light Almond	2172LALTRA	2182LALTRA
	Red	2172REDLTRA	2182REDLTRA
	White	2172WLTRA	2182WLTRA



2172LATRA



2172L

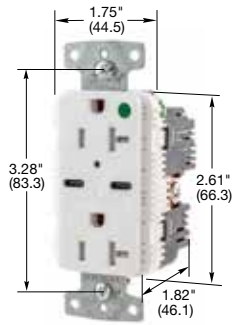
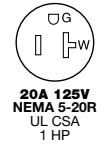


2182IVLTRA

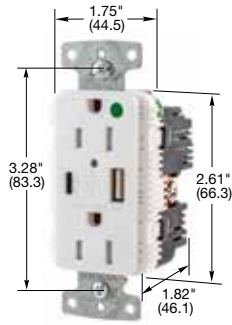
Note: See pages A-48 and A-49 for accessories.  
See page Tech-10 for Tamper-Resistant and LED Power Indicators description.  
See section N for wallplates.

**The products listed on this page are Assembled in USA, and many are Buy American Compliant. Please contact Hubbell with any certification requirements.**

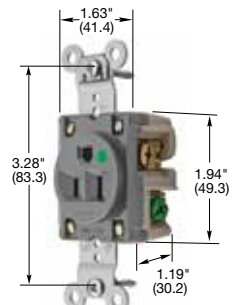
Dimensions in Inches (mm)



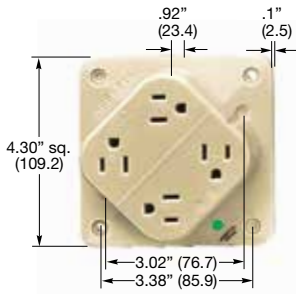
**USB8300C5W**



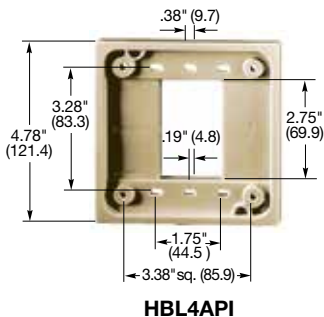
**USB8200AC5W**



**HBL8210GY**



**HBL415HI**



**HBL4API**

Dimensions in Inches (mm)

## Hospital Grade ● USB Charger Type-C, Type A&C and Type A

Description	Color	Catalog Number	
Hospital Grade USB Charger Outlet: two Type-C port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles.	Black	<b>USB8200C5BK</b>	<b>USB8300C5BK</b>
	Brown	<b>USB8200C5</b>	<b>USB8300C5</b>
	Gray	<b>USB8200C5GY</b>	<b>USB8300C5GY</b>
	Ivory	<b>USB8200C5I</b>	<b>USB8300C5I</b>
	Light Almond	<b>USB8200C5LA</b>	<b>USB8300C5LA</b>
	Red	<b>USB8200C5R</b>	<b>USB8300C5R</b>
Hospital Grade USB Charger Outlet: one Type A and one Type-C port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles.	Black	<b>USB8200AC5BK</b>	<b>USB8300AC5BK</b>
	Brown	<b>USB8200AC5</b>	<b>USB8300AC5</b>
	Gray	<b>USB8200AC5GY</b>	<b>USB8300AC5GY</b>
	Ivory	<b>USB8200AC5I</b>	<b>USB8300AC5I</b>
	Light Almond	<b>USB8200AC5LA</b>	<b>USB8300AC5LA</b>
	Red	<b>USB8200AC5R</b>	<b>USB8300AC5R</b>
Hospital Grade USB Charger Outlet: two Type A port configurations, high power 5 Amp, 5 Volt USB output, Tamper-Resistant duplex receptacle, USB ports rated 10,000 cycles.	Black	<b>USB8200A5BK</b>	<b>USB8300A5BK</b>
	Brown	<b>USB8200A5</b>	<b>USB8300A5</b>
	Gray	<b>USB8200A5GY</b>	<b>USB8300A5GY</b>
	Ivory	<b>USB8200A5I</b>	<b>USB8300A5I</b>
	Light Almond	<b>USB8200A5LA</b>	<b>USB8300A5LA</b>
	Red	<b>USB8200A5R</b>	<b>USB8300A5R</b>
	White	<b>USB8200A5W</b>	<b>USB8300A5W</b>

## HBL® Extra Heavy Duty Hospital Grade ● Single Receptacles



Description	Color	Catalog Number	
Flush, nylon face, back and side wired, Fed. Spec. verified.	Almond	-	<b>HBL8310AL</b>
	Brown	<b>HBL8210</b>	<b>HBL8310</b>
	Gray	<b>HBL8210GY</b>	<b>HBL8310GY</b>
	Ivory	<b>HBL8210I</b>	<b>HBL8310I</b>
	Red	<b>HBL8210R</b>	<b>HBL8310R</b>
	White	<b>HBL8210W</b>	<b>HBL8310W</b>
Panel mount on 1.94 in. (49.2) centers.	Brown	<b>HBL8284</b>	-
	Ivory	<b>HBL8284I</b>	<b>HBL8384I</b>
Isolated ground <sup>A</sup> .	Orange	<b>IG8210</b>	<b>IG8310</b>

Note: <sup>A</sup>See section M for additional information on isolated ground devices.

## 4-PLEX® Hospital Grade ● Receptacles



Description	Color	Catalog Number	
4 outlet high impact resistant Polycarbonate construction. Mount to 4 in. square box.	Brown	<b>HBL415H</b>	<b>HBL420H</b>
	Gray	-	<b>HBL420HGY</b>
	Ivory	<b>HBL415HI</b>	<b>HBL420HI</b>
	Red	<b>HBL415HR</b>	<b>HBL420HR</b>
	White	<b>HBL415HW</b>	<b>HBL420HW</b>

## 4-PLEX® Accessories

Description	Color	Catalog Number	
4-PLEX adapter plates for 1- and 2-gang, device boxes.	Brown	<b>HBL4AP</b>	<b>HBL4AP</b>
	Gray	<b>HBL4APGY</b>	<b>HBL4APGY</b>
	Ivory	<b>HBL4API</b>	<b>HBL4API</b>
	Red	<b>HBL4APR</b>	<b>HBL4APR</b>
	White	<b>HBL4APW</b>	<b>HBL4APW</b>

Note: See page A-25 for additional information on 4-PLEX devices.

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15P  
UL CSA



**20A 125V**  
NEMA 5-20P  
UL CSA

## Hospital Grade Plugs

### Insulgrip®

Description	Cord Diameter	Catalog Number	
Black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL8215C</b>	<b>HBL8315C</b>
Transparent housing.	.230"-.720" (5.8-18.3)	<b>HBL8215CT</b>	<b>HBL8315CT</b>
8 position angle plug, transparent housing.	.250"-.655" (6.4-16.6)	<b>HBL8215CAT*</b>	<b>HBL8315CAT*</b>

### Valise®

Description	Cord Diameter	Catalog Number	
White nylon.	.300"-.660" (7.6-16.8)	<b>HBL8115V</b>	<b>HBL8364V</b>
Insulation displacement, white nylon.	.300"-.360" (7.6-9.1)	<b>HBL8013V*</b>	-

Note: \*Not Fed. Spec. Listed.  
See page A-49 for accessories

**IP20**  
SUITABILITY



**15A 250V**  
NEMA 6-15P  
UL CSA  
1.5 HP



**20A 250V**  
NEMA 6-20P  
UL CSA  
2 HP

## Hospital Grade Plugs

### Valise®

Description	Cord Diameter	Catalog Number	
Valise plug, white nylon.	.300"-.660" (7.6-16.8)	<b>HBL8666V</b>	<b>HBL8464V</b>

Note: HP ratings listed above are based on 208 to 240V AC only.

**IP20**  
SUITABILITY



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

## Hospital Grade Connector Bodies

### Insulgrip®

Description	Cord Diameter	Catalog Number	
Black and white nylon.	.230"-.720" (5.8-18.3)	<b>HBL8219C</b>	<b>HBL8319C</b>
Transparent housing.	.230"-.720" (5.8-18.3)	<b>HBL8219CT</b>	<b>HBL8319CT</b>

### Valise®

Description	Cord Diameter	Catalog Number	
White nylon.	.300"-.660" (7.6-16.8)	<b>HBL8119V</b>	-

Note: See page A-49 for accessories.

## Hospital Grade Connector Bodies

### Valise®

Description	Cord Diameter	Catalog Number	
White nylon.	.300"-.660" (7.6-16.8)	-	<b>HBL8469V</b>

## HBL® Extra Heavy Duty Hospital Grade Receptacles

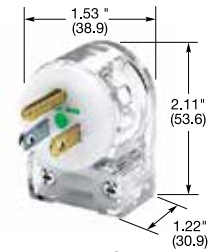
### Duplex

Description	Color	Catalog Number	
Flush, thermoplastic polyester face, back and side wired, multiple drive screws.	Brown Ivory	<b>HBL8600</b> <b>HBL8600I</b>	<b>HBL8400</b> <b>HBL8400I</b>

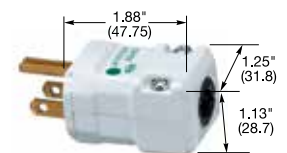
Note: See page A-48 for accessories.  
See section N for wallplates.



**HBL8215C**



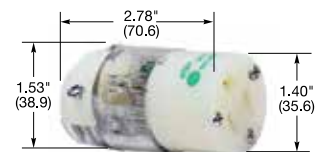
**HBL8215CAT**



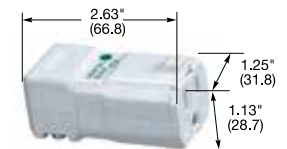
**HBL8115V**



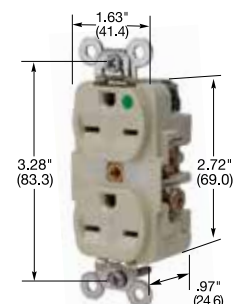
**HBL8219C**



**HBL8219CT**



**HBL8119V**



**HBL8600I**

Dimensions in Inches (mm)

## Features and Benefits

### Extra Heavy Duty Hospital Grade ● GFCI Receptacles Tamper-Resistant and Weather Resistant

#### 10kA Short Circuit Current Rating

Limits improper access to energized contacts

- Exclusive patented tamper-resistant protection through switching technology
- Continually tests and monitors for people protection automatically
- Patented self test diagnostics

Power indication

- Steady "ON" GREEN LED provides indication of power

Ground fault indicator

- Steady "ON" RED LED provides visual indication of a ground fault condition; flashing red indicates device has lost capability to provide protection

No power at face if reverse wired

- Open circuit condition eliminates false assumption of protection at face

Durable face with V-0 flammability rating

- Polyester face cover



GFR8300SGI





15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP

### AUTOGUARD® Self Test GFCI Receptacles Tamper-Resistant and Weather Resistant

Description	Rating	Color	Catalog Number	
  Flush, polyester face, back and side wired, multiple drive screws.	15 and 20A 125V AC	Black	<b>GFR8200SGBK</b>	<b>GFR8300SGBK</b>
		Brown	<b>GFR8200SG</b>	<b>GFR8300SG</b>
		Gray	<b>GFR8200SGGY</b>	<b>GFR8300SGGY</b>
		Ivory	<b>GFR8200SGI</b>	<b>GFR8300SGI</b>
		Red	<b>GFR8200SGR</b>	<b>GFR8300SGR</b>
		White	<b>GFR8200SGW</b>	<b>GFR8300SGW</b>

*Note: GFCI type receptacles should not be used in critical care patient areas or for electrical life support equipment applications because of the possibility of power interruption. All GFCI receptacles listed above are furnished with both a matching color nylon wallplate, and a SS26 302/304 super stainless steel wallplate. 20 amp feed-through capability. See page Tech-10 for Tamper-Resistant and Weather Resistant descriptions.*



GFR8300SGW

### GFCI Receptacle Specifications per GFCI Products Listed (Pages L-12 to L-15)

Trip Level	4 to 6 mA.
Trip Time	.025 second nominal.
Frequency	60 Hz.
Voltage	120V AC +10% - 15% (102V to 132V).
Amperage	15A/20A, 20A Feed Thru.
Maximum Interrupting Capacity	10,000A.
Operating Temperature	-35°C to 66°C or -30°F to 150°F.
Maximum Humidity	95%.
Listings and Standards	Meets UL498 for receptacles, UL943 Class A for GFCIs UL File E41978. CSA Certified.
Codes	Meets all NEC® and CEC requirements. NEMA WD-6 ANSI 73.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).



## Features and Benefits

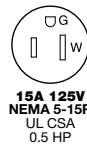
### Commercial Tamper-Resistant GFCI Receptacles

- Patented shutter design for tamper-resistant protection
- Compliant with NEC® 406.12 and NEC® 517-18(c)
- Patented AUTOGUARD® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Alarm version provides audible notification of a trip condition



GFTRST83B

### Hospital Grade ● Tamper-Resistant



Description	Rating	Color	Catalog Number			
Night Light Two LED Night Lights, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFTRST82ALNL</b>	<b>GFTRST83ALNL</b>		
		Black	<b>GFTRST82BKNL</b>	<b>GFTRST83BKNL</b>		
		Brown	<b>GFTRST82NL</b>	<b>GFTRST83NL</b>		
		Gray	<b>GFTRST82GYNL</b>	<b>GFTRST83GYNL</b>		
		Ivory	<b>GFTRST82INL</b>	<b>GFTRST83INL</b>		
		Light Almond	<b>GFTRST82LANL</b>	<b>GFTRST83LANL</b>		
		Red	<b>GFTRST82RNL</b>	<b>GFTRST83RNL</b>		
		White	<b>GFTRST82WNL</b>	<b>GFTRST83WNL</b>		
		Alarm, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFTRST82ALB</b>	<b>GFTRST83ALB</b>
				Black	<b>GFTRST82BKB</b>	<b>GFTRST83BKB</b>
Brown	<b>GFTRST82B</b>			<b>GFTRST83B</b>		
Gray	<b>GFTRST82GYB</b>			<b>GFTRST83GYB</b>		
Ivory	<b>GFTRST82IB</b>			<b>GFTRST83IB</b>		
Light Almond	<b>GFTRST82LAB</b>			<b>GFTRST83LAB</b>		
Red	<b>GFTRST82RB</b>			<b>GFTRST83RB</b>		
White	<b>GFTRST82WB</b>			<b>GFTRST83WB</b>		



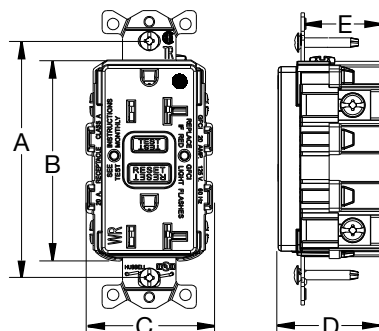
GFTRST83WNL



GFTRST83GYB

### Product Dimensions Inches (mm)

GFCI Receptacle	
A	3.27 (83.1)
B	2.75 (69.8)
C	1.75 (44.5)
D	1.47 (37.4)
E	1.10 (27.9)



Dimensions in Inches (mm)

## Features and Benefits

### Commercial Tamper and Weather Resistant GFCI Receptacles

- Patented shutter design for tamper-resistant protection
- Meets NEC® requirements for TR (517-18c) and WR (406.9), UV and corrosion resistance for harsh and damp applications
- Patented AUTOGUARD® self test technology
- Protects against line and load reversal, no power to the face or downstream if device is miswired


**GFTWRST83WIG**


### Hospital Grade • Tamper-Resistant Weather Resistant


**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP

**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

**GFTWRST82AL**

**GFTWRST83GYU**

**GFTWRST82BKIG**

**GFTWRST83SNAPI**

**SNAP1RA**

Description	Rating	Color	Catalog Number	Catalog Number
Standard, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFTWRST82AL</b>	<b>GFTWRST83AL</b>
		Black	<b>GFTWRST82BK</b>	<b>GFTWRST83BK</b>
		Brown	<b>GFTWRST82</b>	<b>GFTWRST83</b>
		Gray	<b>GFTWRST82GY</b>	<b>GFTWRST83GY</b>
		Ivory	<b>GFTWRST82I</b>	<b>GFTWRST83I</b>
		Light Almond	<b>GFTWRST82LA</b>	<b>GFTWRST83LA</b>
		Red	<b>GFTWRST82R</b>	<b>GFTWRST83R</b>
White	<b>GFTWRST82W</b>	<b>GFTWRST83W</b>		
Assembled in USA, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFTWRST82ALU</b>	<b>GFTWRST83ALU</b>
		Black	<b>GFTWRST82BKU</b>	<b>GFTWRST83BKU</b>
		Brown	<b>GFTWRST82U</b>	<b>GFTWRST83U</b>
		Gray	<b>GFTWRST82GYU</b>	<b>GFTWRST83GYU</b>
		Ivory	<b>GFTWRST82IU</b>	<b>GFTWRST83IU</b>
		Light Almond	<b>GFTWRST82LAU</b>	<b>GFTWRST83LAU</b>
		Red	<b>GFTWRST82RU</b>	<b>GFTWRST83RU</b>
White	<b>GFTWRST82WU</b>	<b>GFTWRST83WU</b>		
Isolated Ground, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFTWRST82ALIG</b>	<b>GFTWRST83ALIG</b>
		Black	<b>GFTWRST82BKIG</b>	<b>GFTWRST83BKIG</b>
		Brown	<b>GFTWRST82IG</b>	<b>GFTWRST83IG</b>
		Gray	<b>GFTWRST82GYIG</b>	<b>GFTWRST83GYIG</b>
		Ivory	<b>GFTWRST82IIG</b>	<b>GFTWRST83IIG</b>
		Light Almond	<b>GFTWRST82LAIG</b>	<b>GFTWRST83LAIG</b>
		Red	<b>GFTWRST82RIG</b>	<b>GFTWRST83RIG</b>
White	<b>GFTWRST82WIG</b>	<b>GFTWRST83WIG</b>		
SNAPConnect®, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFTWRST82SNAPAL</b>	<b>GFTWRST83SNAPAL</b>
		Black	<b>GFTWRST82SNAPBK</b>	<b>GFTWRST83SNAPBK</b>
		Brown	<b>GFTWRST82SNAP</b>	<b>GFTWRST83SNAP</b>
		Gray	<b>GFTWRST82SNAPGY</b>	<b>GFTWRST83SNAPGY</b>
		Ivory	<b>GFTWRST82SNAPI</b>	<b>GFTWRST83SNAPI</b>
		Light Almond	<b>GFTWRST82SNAPLA</b>	<b>GFTWRST83SNAPLA</b>
		Red	<b>GFTWRST82SNAPR</b>	<b>GFTWRST83SNAPR</b>
White	<b>GFTWRST82SNAPW</b>	<b>GFTWRST83SNAPW</b>		

### SNAPConnect® Right Angle Pigtailed Terminal

Description	Wire Type	General Use Catalog Number	Assembled in USA Catalog Number
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2; Polycarbonate housing material.	Solid	<b>SNAP1RA</b>	<b>SNAP1RNA</b>
	Stranded	<b>SNAP2RA</b>	<b>SNAP2RNA</b>

## Features and Benefits

### Commercial Standard Hospital Grade • GFCI Receptacles

- Fed. Spec UL Listed, Hospital Grade
- Green power indicator and red trip indicator
- Patented AUTOGUARD® self test technology
- Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

### Hospital Grade • GFCI Receptacles

Rating	Rating	Color	Catalog Number			
Standard, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFRST82AL</b>	<b>GFRST83AL</b>		
		Black	<b>GFRST82BK</b>	<b>GFRST83BK</b>		
		Brown	<b>GFRST82</b>	<b>GFRST83</b>		
		Gray	<b>GFRST82GY</b>	<b>GFRST83GY</b>		
		Ivory	<b>GFRST82I</b>	<b>GFRST83I</b>		
		Light Almond	<b>GFRST82LA</b>	<b>GFRST83LA</b>		
		Red	<b>GFRST82R</b>	<b>GFRST83R</b>		
		White	<b>GFRST82W</b>	<b>GFRST83W</b>		
		Assembled in USA, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFRST82ALU</b>	<b>GFRST83ALU</b>
				Black	<b>GFRST82BKU</b>	<b>GFRST83BKU</b>
Brown	<b>GFRST82U</b>			<b>GFRST83U</b>		
Gray	<b>GFRST82GYU</b>			<b>GFRST83GYU</b>		
Ivory	<b>GFRST82IU</b>			<b>GFRST83IU</b>		
Light Almond	<b>GFRST82LAU</b>			<b>GFRST83LAU</b>		
Red	<b>GFRST82RU</b>			<b>GFRST83RU</b>		
White	<b>GFRST82WU</b>			<b>GFRST83WU</b>		
Night Light Two LED Night Lights, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC			Almond	<b>GFRST82ALNL</b>	<b>GFRST83ALNL</b>
				Black	<b>GFRST82BKNL</b>	<b>GFRST83BKNL</b>
		Brown	<b>GFRST82NL</b>	<b>GFRST83NL</b>		
		Gray	<b>GFRST82GYNL</b>	<b>GFRST83GYNL</b>		
		Ivory	<b>GFRST82INL</b>	<b>GFRST83INL</b>		
		Light Almond	<b>GFRST82LANL</b>	<b>GFRST83LANL</b>		
		Red	<b>GFRST82RNL</b>	<b>GFRST83RNL</b>		
		White	<b>GFRST82WNL</b>	<b>GFRST83WNL</b>		
		Alarm, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC	Almond	<b>GFRST82ALB</b>	<b>GFRST83ALB</b>
				Black	<b>GFRST82BKB</b>	<b>GFRST83BKB</b>
Brown	<b>GFRST82B</b>			<b>GFRST83B</b>		
Gray	<b>GFRST82GYB</b>			<b>GFRST83GYB</b>		
Ivory	<b>GFRST82IB</b>			<b>GFRST83IB</b>		
Light Almond	<b>GFRST82LAB</b>			<b>GFRST83LAB</b>		
Red	<b>GFRST82RB</b>			<b>GFRST83RB</b>		
White	<b>GFRST82WB</b>			<b>GFRST83WB</b>		
SNAPConnect®, Flush, nylon face, back and side wired, multiple drive screws, self-grounding staple.	15 and 20A 125V AC			Almond	<b>GFRST82SNAPAL</b>	<b>GFRST83SNAPAL</b>
				Black	<b>GFRST82SNAPBK</b>	<b>GFRST83SNAPBK</b>
		Brown	<b>GFRST82SNAP</b>	<b>GFRST83SNAP</b>		
		Gray	<b>GFRST82SNAPGY</b>	<b>GFRST83SNAPGY</b>		
		Ivory	<b>GFRST82SNAPI</b>	<b>GFRST83SNAPI</b>		
		Light Almond	<b>GFRST82SNAPLA</b>	<b>GFRST83SNAPLA</b>		
		Red	<b>GFRST82SNAPR</b>	<b>GFRST83SNAPR</b>		
		White	<b>GFRST82SNAPW</b>	<b>GFRST83SNAPW</b>		



**GFRST82WNL**



**GFRST82R**



**GFRST83INL**



**GFRST83BKB**

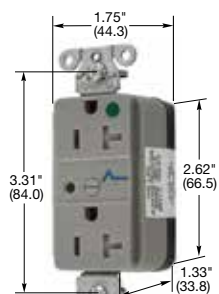


**GFRST83SNAPGY**

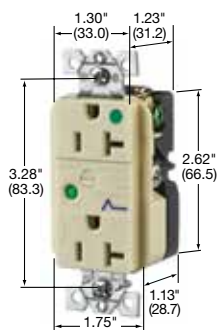
### SNAPConnect® Right Angle Pigtailed Terminal

Description	Wire Type	General Use Catalog Number	Assembled in USA Catalog Number
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2; Polycarbonate housing material.	Solid Stranded	<b>SNAP1RA</b> <b>SNAP2RA</b>	<b>SNAP1RNA</b> <b>SNAP2RNA</b>

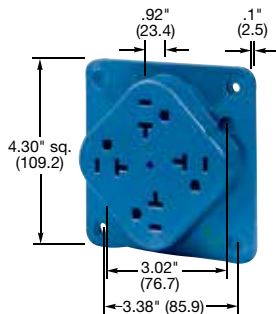
## Surge Protection Devices



**SNAP8362GYS**



**HBL8362ISA**



**HBL420HS**



**HBL6MGRPT620**



**HBL6HGUSB6**

### Hospital Grade • Circuit Guard® Receptacles



15A 125V  
NEMA 5-15R  
UL CSA  
0.5 HP



20A 125V  
NEMA 5-20R  
UL CSA  
1 HP



SNAPConnect® Tamper-Resistant, surge suppression receptacle, smooth face, duplex. Requires connector on page L-15, sold separately.

Surge suppression receptacles with light and alarm, 240 joules/15000A per mode.

Isolated ground, surge suppression receptacles with light and alarm, 240 joules/15000A per mode.

4-PLEX® surge suppression receptacles with lights, 80 joules/6500A per mode.

Note: See page Tech-10 for Tamper-Resistant and LED Power Indicators descriptions.

### 4-PLEX® Accessories

Description	Color	Catalog Number
4-PLEX Adapter Plates for 1- and 2-gang, and 4 in. (101.6) square device boxes.	Blue	<b>HBL4APBL</b>
	Ivory	<b>HBL4API</b>
	Red	<b>HBL4APR</b>
4-PLEX Portable Box. Portable 4 in. (101.6) square box with cord grip. Accepts up to .66 in. (16.8) diameter cord.	Ivory	<b>HBL4PBI</b>

Note: 4-PLEX Box is not UL Listed.

UL2930 Listed



### UL2930 Health Care Outlet Assembly (HCOA)

Description	# of Outlets	Cord Length	Color	15 Amp	20 Amp
UL 2930 HCOA with L-N Surge Protection	6	6'	White	<b>HBL6MG6</b>	<b>HBL6MG620</b>
	6	15'	White	<b>HBL6MG15</b>	<b>HBL6MG1520</b>
UL 2930 HCOA Relocatable Power Tap (RPT)	6	6'	White	<b>HBL6MGRPT6</b>	<b>HBL6MGRPT620</b>
	6	15'	White	<b>HBL6MGRPT15</b>	<b>HBL6MGRPT1520</b>

Listed to UL1449



### SpikeShield® Surge Protective Devices (SPD) with Tamper-Resistant Receptacles and Heavy Duty Plug

Description	# of Outlets	Cord Length	Color	15 Amp	20 Amp
Type 3 SPD, Heavy Duty Metal Housing	6	6'	White	<b>HBL6HG6</b>	<b>HBL6HG620</b>
	6	15'	White	<b>HBL6HG15</b>	<b>HBL6HG1520</b>
UL Type 3 SPD, Heavy Duty Metal Housing with 2-port USB	4	6'	White	<b>HBL6HGUSB6</b>	—

Dimensions in Inches (mm)

# Hospital Products

## Hubbellock® Plugs, Connector Bodies and Receptacles

### For Hospital Use Only



### Hubbellock® Plugs and Connector Bodies

Description	Plugs	Connector Bodies
Nylon cover, thermoset interior.	<b>HBL23014HGB</b>	<b>HBL23001HGB</b>
Armored, epoxy filled, rubber cord grip.	<b>HBL23004HG</b>	-

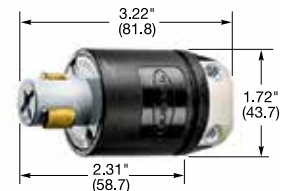
Note: Cord clamp range for plug and connector .300" to .660" (7.6 to 16.8).



20A 125V AC



20A 125V AC



**HBL23014HGB**

### Receptacles

Description	Catalog Number
Black, back wired.	- <b>HBL23000HG</b>



**HBL23001HGB**

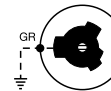
### Wallplates

Description	Catalog Number
Stainless steel 302/304, single-gang.	<b>HBL23901HG</b>
Stainless steel 302/304, three-gang for two receptacles.	<b>HBL23909HG</b>

Note: Suffix HG or HGB type for hospital use only.



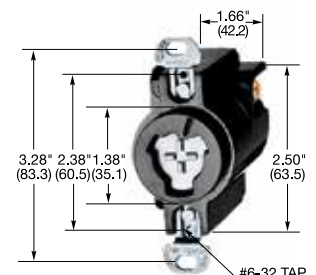
**IP30**  
SUITABILITY



20A 125V AC

### Explosion Proof Plug

Description	Catalog Number
Plug, with, epoxy kit, accepts #12 or #14 type SO cable.	<b>HBL24312</b>

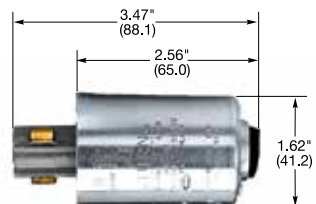


**HBL23000HG**

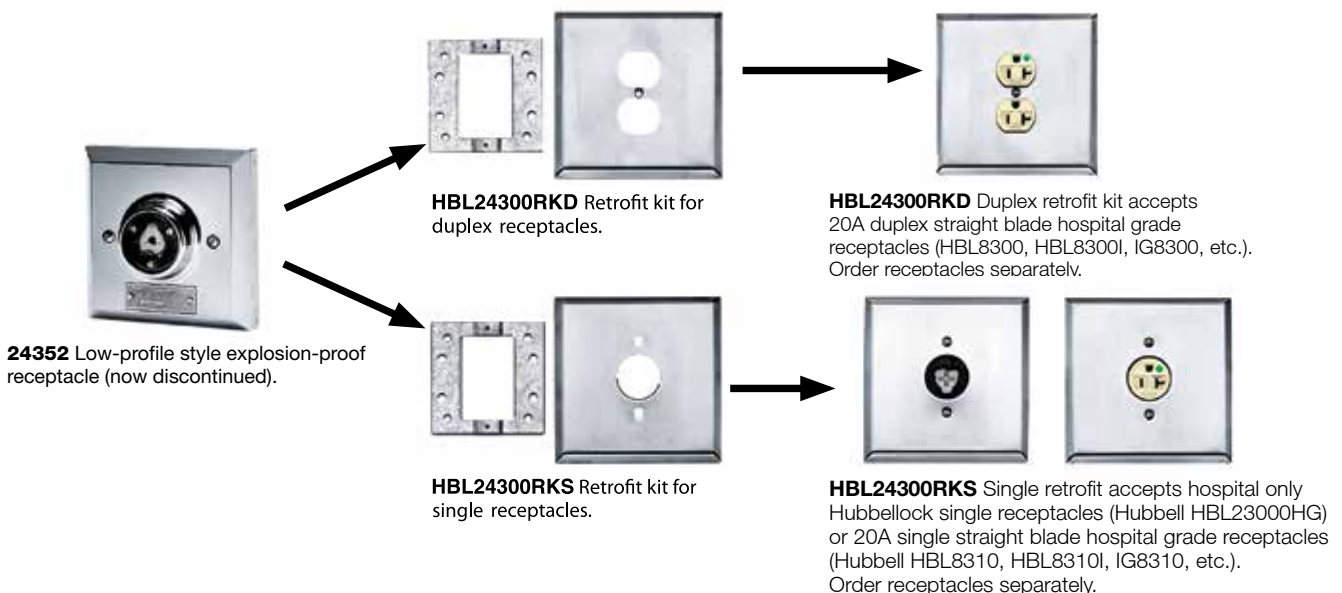
### Hazardous to Non-hazardous Location Receptacle Conversion Kits

Conversion kits for replacement of explosion proof receptacles listed above, with non-explosion proof receptacles, in the hospital areas formerly classified as hazardous locations and now classified non-hazardous locations due to the change from flammable anesthetizing gases to nonflammable anesthetizing gases.

For Conversion To:	Catalog Number
20A, 125V, duplex receptacle (Hubbell HBL830 Series). Includes adapter ring and stainless steel wall plate for duplex receptacle (receptacle not included).	<b>HBL24300RKD</b>
20A, 125V, Hospital Hubbellock receptacle (Hubbell HBL23000HG) or 20A, 125V, straight blade single receptacle (Hubbell HBL8310 series). Includes adapter ring and stainless wall plate for single receptacle (receptacle not included).	<b>HBL24300RKS</b>



**HBL24312**



Dimensions in Inches (mm)



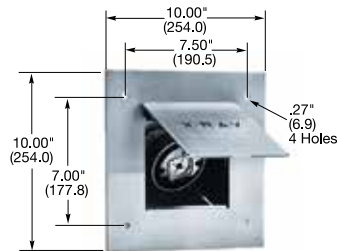
## Hubbellock® Mobile X-Ray Devices



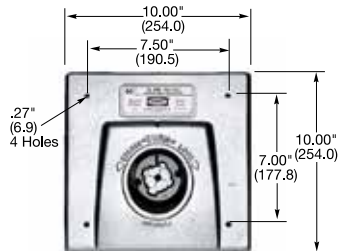
**HBL25515**



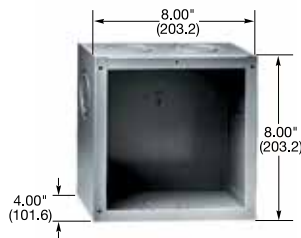
**HBL25615**



**HBL25605**

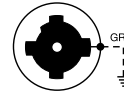


**HBL25603**

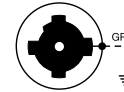


**HBL25509**

**IP30**  
SUITABILITY



**50A 250V AC**



**60A 250V AC**

### Mobile X-Ray Plugs

Description	Catalog Number	
Plug, with epoxy kit, less cord clamp.	<b>HBL25515</b>	<b>HBL25615</b>
Plug, with cord clamp, less epoxy kit.	<b>HBL25525</b>	<b>HBL25625</b>

Note: Cord clamp range of plugs with cord clamps .830" to 1.3" (21.1 to 33.0).  
50A plugs fit 50A or 60A receptacles.

### Mobile X-Ray Receptacles

Description	Catalog Number	
Receptacle with stainless steel plate assembly.	<b>HBL25505</b>	<b>HBL25605</b>
Receptacle with cast aluminum plate assembly.	<b>HBL25503</b>	<b>HBL25603</b>
Replacement receptacle interior.	-	<b>IN16494</b>

### Accessory

Description	Catalog Number
Box stamped steel 8" x 8" x 4" (203.2 x 203.2 x 101.6), accommodates 50A and 60A mobile X-ray receptacles. Knockout sizes 1¼", 1½" and 2".	<b>HBL25509</b>

Dimensions in Inches (mm)

# SECTION M

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Surge Protection Panels & Wired-In Branch Panels



SpikeShield® Surge Protection Plug Strips



Surge Protection & Isolated Ground Receptacles



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Twist-Lock® Isolated Ground Receptacles	M-18

## Products at a Glance



### Surge Protection Panels and Wired-In Branch Panels

- 320,000, 160,000 and 120,000 peak amp capacity
- Wired-in branch panel protection 100,000 peak amp capacity
- Wired-in surge arrestors, single phase 36,000 and three phase 40,000
- Wired-in surge protective devices 50,000 peak amp capacity



### SpikeShield® Surge Protection Plug Strips

- UL2930 HCOA's
- UL1449 SPD's
- 15A and 20A versions
- Available in metallic and non-metallic
- 6 foot or 15 foot cords available
- USB versions in several models



### Surge Protection Receptacles

- Available in Specification and Hospital Grade versions
- SNAPConnect® version with tamper-resistant shutters
- Isolated Ground Specification and Hospital Grade SPD's available



### Isolated Ground Receptacles

- Available in Specification and Hospital Grade
- Twist-Lock® Isolated Ground available
- Isolated Ground SPD's also available

## Features and Benefits

### Hubbell Surge Protective Devices (SPD)

A cascading approach is encouraged for optimal surge protection of any facility or home. A cascading approach includes surge protection at the service entrance, branch panel and the point-of-use. Hubbell offers a comprehensive offering of panel surge products, innovative surge strips and the broadest surge receptacle offering in the industry.

The SpikeShield® line of panel surge protective devices offers a broad selection of products to meet the many requirements of industrial, commercial, institutional and residential applications. Hubbell offers a complete offering of high quality, cost effective panel surge products.

- All panel surge products are UL1449 4th edition listed
- Protection levels from 50 kA to 320 kA to handle all real world surge events
- 120, 160 and 320 kA versions feature bus bar construction, bolt down modules, surge counter and a metallic NEMA 1 enclosure
- Hubbell's wired-in surge units are ideal for service entrance, branch panel, or point of use applications such as protecting variable speed drives or other sensitive equipment on the plant floor



HBL4P320DB



#### Housing Design

- Surface mounting
- Compact design with bus-bar pathways, allows installation in areas with space restrictions
- NEMA 1 enclosure
- All panel products are UL Listed to Standard 1449 4th edition.



#### Interior Design

- Bolt-down modules, assures positive connection and allows for easy replacement
- Thermal fuse prevents the MOVs from overheating when exposed to high current levels
- Peak amp capacity for 120kA, 160kA and 320kA, protects equipment under the worst electrical conditions



#### Optional Disconnect Models

- 160 kA and 320 kA surge panels are available with an optional integral disconnect
- Integral switch allows power to SPD to be disconnected before opening the enclosure door



#### Protection

- Diagnostics panel
- LED and audible alarm for module failure with silencing
- UL 1449 Type 1 to be used in both Type 1 and Type 2 applications
- Type 1 SPD's can be located at any point in the electrical system, on the line or load side of the equipment over-current device

## 320kA and 160kA Service/Branch Panel Protection

The SpikeShield® service entrance product line includes a line of panels with replaceable modules. This series features improved performance through the use of a low impedance bus-bar design and easily replaceable bolt-down modules.

They incorporate a modular (replaceable surge protection modules) design and feature the latest industry approvals and safety ratings. Including UL1449 4th edition.

- Improved performance through the use of a low impedance bus-bar design
- Replaceable surge protection modules
- Surge counter included in all units
- NEMA 1 enclosure
- LED and audible alarm status indicator



HBL4P320DB



HBL8P160DB

### Service/Branch Panel Protection 320,000 Peak Amp Capacity (Type 1 SPD)

Voltage	Configuration	Catalog Number	With Disconnect	Replacement Module
120/240V AC Single Phase	1Ph. 3-wire +G	<b>HBL3P320B</b>	<b>HBL3P320DB</b>	<b>HBL160M120B</b>
120/208V AC Wye*	3Ph. Wye 4-wire +G	<b>HBL4P320B</b>	<b>HBL4P320DB</b>	<b>HBL160M120B</b>
240V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL5P320B</b>	<b>HBL5P320DB</b>	<b>HBL160M240B</b>
240/120V AC Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6P320B</b>	<b>HBL6P320DB</b>	<b>HBL160M240BHL &amp; HBL160M120B</b>
277/480V AC Wye**	3Ph. Wye 4-wire +G	<b>HBL8P320B</b>	<b>HBL8P320DB</b>	<b>HBL160M480B</b>
480V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL9P320B</b>	<b>HBL9P320DB</b>	<b>HBL160M480DB</b>
347/600V AC Wye	3Ph. Wye 4-wire +G	<b>HBL10P320B</b>	<b>HBL10P320DB</b>	<b>HBL160M600B</b>
600V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL11P320B</b>	<b>HBL11P320DB</b>	<b>HBL160M600B</b>

### Service/Branch Panel Protection 160,000 Peak Amp Capacity (Type 1 SPD)

Voltage	Configuration	Catalog Number	With Disconnect	Replacement Module
120/240V AC Single Phase	1Ph. 3-wire +G	<b>HBL3P160B</b>	<b>HBL3P160DB</b>	<b>HBL160M120B</b>
120/208V AC Wye*	3Ph. Wye 4-wire +G	<b>HBL4P160B</b>	<b>HBL4P160DB</b>	<b>HBL160M120B</b>
240V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL5P160B</b>	<b>HBL5P160DB</b>	<b>HBL160M240B</b>
240/120V AC Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6P160B</b>	<b>HBL6P160DB</b>	<b>HBL160M240BHL &amp; HBL160M120B</b>
277/480V AC Wye**	3Ph. Wye 4-wire +G	<b>HBL8P160B</b>	<b>HBL8P160DB</b>	<b>HBL160M480B</b>
480V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL9P160B</b>	<b>HBL9P160DB</b>	<b>HBL160M480DB</b>
347/600V AC Wye	3Ph. Wye 4-wire +G	<b>HBL10P160B</b>	<b>HBL10P160DB</b>	<b>HBL160M347B</b>
600V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL11P160B</b>	<b>HBL11P160DB</b>	<b>HBL160M600B</b>

Note: Units come standard with Surge Counter.

\*120/208 Wye also applies to 127/220 Wye.

\*\*277/480 Wye also applies to 220/380 Wye, 230/400 Wye and 240/415 Wye.

### Electrical Specifications

320kA Panel	160kA Panel	SCCR <sup>◇</sup>	I <sub>n</sub>	MCOV <sup>†</sup>	Voltage Protection Rating (VPR)							
					L-N		L-G		N-G		L-L	
					320kA	160kA	320kA	160kA	320kA	160kA	320kA	160kA
<b>HBL3P320B</b>	<b>HBL3P160B</b>	200kA	20kA	320/160	900	700	900	700	800	600	1500	1000
<b>HBL4P320B</b>	<b>HBL4P160B</b>	200kA	20kA	320/160	900	700	900	700	800	600	1500	1000
<b>HBL5P320B</b>	<b>HBL5P160B</b>	200kA	20kA	320/160	N/A	N/A	1500	1200	N/A	N/A	2000	1500
<b>HBL6P320B</b>	<b>HBL6P160B</b>	200kA	20kA	320/160	1000/1200	900/1500	900/1200	900/1200	800	700	1500	1500
<b>HBL8P320B</b>	<b>HBL8P160B</b>	200kA	20kA	320/160	1500	1200	1500	1200	1200	1200	2000	2500
<b>HBL9P320B</b>	<b>HBL9P160B</b>	200kA	20kA	320/160	N/A	N/A	1800	1800	N/A	N/A	2500	2500
<b>HBL10P320B</b>	<b>HBL10P160B</b>	200kA	20kA	320/160	1500	1500	1500	1500	1500	1500	2500	2500
<b>HBL11P320B</b>	<b>HBL11P160B</b>	200kA	20kA	320/160	N/A	N/A	3000	2500	N/A	N/A	2500	2500

Note: Specification applies to both (B) and (DB) series.

◇ SCCR - Short Circuit Current Rating. † MCOV - Maximum Continuous Operating Voltage. I<sub>n</sub> - Nominal discharge current.

### Product Specifications

Max. Surge Current per Phase:	320kA and 160kA
Max. Operating Temperature:	-20°F to 149°F (-4°C to 65°C)
Diagnostics Indicators:	Push to Test Diagnostics, Red and Green Status LED's, Dry Contacts, Audible Alarm and Surge Counter
Dimensions:	11.04"W x 22.44"H x 7.87"D (320kA) and 11.04"W x 20.32"H x 5.32"D (160kA)
Weight:	37 lbs. Max. (320kA) and 27 lbs. Max. (160kA)
Terminal Accommodation:	#10 AWG to #2 AWG
Operating Frequency:	50/60 Hz
EMI/RFI:	Up to -30dB
Housing Rating:	NEMA 1
Listing:	cULus UL1449 4th edition type 1 SPD, UL1283 5th edition, CSA C22.2 No. 269.2-13 1st edition, CSA 22.2, No. 8-13, 5th edition.
Warranty:	10 year



## 120kA Service/Branch Panel Protection

The SpikeShield® 120kA branch panel product offering features an economical, compact, modular design.

These wired-in products can protect branch panels, safety switches and load centers. They can be installed as an appendage or flush mounted to a finished wall next to the panel. The versatility of the wired-in products allows them to be used on branch panels, as well as main panel protection found in smaller commercial facilities or residential applications.

- Economical, compact, modular design
- Protect branch panels, safety switches and load centers
- Appendage or flush mounted to a finished wall next to the panel
- Surge counter included in all units
- NEMA 1 enclosure
- LED and audible alarm status indicator
- UL1449 4th edition



**HBL8P120C**

## Service/Branch Panel Protection 120,000 Peak Amp Capacity (Type 1 SPD)

Voltage V AC	Configuration	Catalog Number	Replacement Module
120/240V AC Single Phase	1Ph. 3-wire +G	<b>HBL3P120C</b>	<b>HBL3P120CM</b>
120/208V AC Wye*	3Ph. Wye 4-wire +G	<b>HBL4P120C</b>	<b>HBL4P120CM</b>
240/120V AC Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6P120C</b>	<b>HBL6P120CMAC &amp; HBL6P120CMB</b>
277/480V AC Wye**	3Ph. Wye 4-wire +G	<b>HBL8P120C</b>	<b>HBL8P120CM</b>
480V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL9P120C</b>	<b>HBL9P120CM</b>
347/600V AC Wye	3Ph. Wye 4-wire +G	<b>HBL10P120C</b>	<b>HBL10P120CM</b>
600V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL11P120C</b>	<b>HBL11P120CM</b>

Note: Units come standard with Surge Counter.

\*120/208 Wye also applies to 127/220 Wye.

\*\*277/480 Wye also applies to 220/380 Wye, 230/400 Wye and 240/415 Wye.

## Electrical Specifications

120kA Panel	SCCR $\diamond$	$I_n$	MCOV $\dagger$	Voltage Protection Rating (VPR)			
				L-N	L-G	N-G	L-L
<b>HBL3P120C</b>	200kA	20kA	120	700	700	600	1000
<b>HBL4P120C</b>	200kA	20kA	120	700	700	600	1000
<b>HBL6P120C</b>	200kA	20kA	120	700/1000	700/1000	600	1200
<b>HBL8P120C</b>	200kA	20kA	120	1200	1200	1000	2000
<b>HBL9P120C</b>	200kA	20kA	120	N/A	1800	N/A	2000
<b>HBL10P120C</b>	200kA	20kA	120	1500	1500	1200	2500
<b>HBL11P120C</b>	200kA	20kA	120	N/A	2500	N/A	2500

Note:  $\diamond$  SCCR - Short Circuit Current Rating.  $\dagger$  MCOV - Maximum Continuous Operating Voltage.  $I_n$  - Nominal discharge current.

## Product Specifications

Max. Surge Current per Phase:	120kA
Max. Operating Temperature:	-40°F to 149°F (-40°C to 65°C)
Diagnostics Indicators:	Push to Test Diagnostics, Red and Green Status LED's, Dry Contacts, Audible Alarm and Surge Counter
Dimensions:	11.04"W x 11.44"H x 5.32"D
Weight:	23.0 lbs. Max.
Terminal Accommodation:	#10 AWG to #2 AWG
Operating Frequency:	50/60/400 Hz
EMI/RFI:	Up to -30dB
Housing Rating:	NEMA 1
Listing:	cULus UL1449 4th edition type 1 SPD, UL1283 5th edition, CSA C22.2 No. 269.2-13 1st edition, CSA 22.2, No. 8-13, 5th edition.
Warranty:	10 year

## Wired-In Branch Panel Protection

The wired-in surge protection device brick design is ideal for areas where space is a major consideration. The surge unit can be mounted directly to the panel through a chase nipple connection which will reduce lead length and impedance while increasing protection levels.

The 100kA product features a NEMA 4X housing and a 200kA SCCR rating.

The SpikeShield wired-in surge protective devices are UL1449 4th edition listed.

- 100,000 Peak Amperage Capacity
- Ideal for areas where space is a major consideration
- Can be mounted directly to the panel through a chase nipple connection to reduce lead length and impedance



HBL9W100C

## Wired-In Branch Panel Protection 100,000 Peak Amp Capacity (Type 2 SPD)

Service Voltage	Configuration	Catalog Number
120/240V AC Single Phase	1Ph. 3-wire +G	<b>HBL3W100C</b>
120/208V AC Wye*	3Ph. Wye 4-wire +G	<b>HBL4W100C</b>
240V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL5W100C</b>
240/120V AC Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6W100C</b>
277/480V AC Wye**	3Ph. Wye 4-wire +G	<b>HBL8W100C</b>
480V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL9W100C</b>
347/600V AC Wye	3Ph. Wye 4-wire +G	<b>HBL10W100C</b>
600V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL11W100C</b>

Note: \*120/208 Wye also applies to 127/220 Wye.

\*\*277/480 Wye also applies to 220/380 Wye, 230/400 Wye and 240/415 Wye.

<sup>Δ</sup>Also can be used on ungrounded systems.

## Electrical Specifications

Catalog Number	SCCR <sup>◇</sup>	I <sub>n</sub>	MCOV <sup>†</sup>	Voltage Protection Rating (VPR)			
				L-N	L-G	N-G	L-L
<b>HBL3W100C</b>	200kA	20kA	150/270	900	1200	700	1500
<b>HBL4W100C</b>	200kA	20kA	150/270	900	1200	700	1500
<b>HBL5W100C</b>	200kA	20kA	300	N/A	N/A	N/A	1500
<b>HBL6W100C</b>	200kA	20kA	275/150	1000	1200	700	1500
<b>HBL8W100C</b>	200kA	20kA	320/640	1200	2000	1000	2500
<b>HBL9W100C</b>	200kA	20kA	640	N/A	N/A	N/A	3000
<b>HBL10W100C</b>	200kA	20kA	390/780	1500	2500	1500	3000
<b>HBL11W100C</b>	200kA	20kA	780	N/A	N/A	N/A	3000

Note: <sup>◇</sup> SCCR - Short Circuit Current Rating.

<sup>†</sup> MCOV - Maximum Continuous Operating Voltage.

I<sub>n</sub> - Nominal discharge current.

## Product Specifications

Max. Surge Current per Phase:	100kA
Max. Operating Temperature:	-40°F to 140°F (-40°C to 60°C)
Diagnostics Indicators:	Green Status LED's, Audible Alarm, Dry Contacts
Dimensions:	9.9"W x 4.8"H x 3.1"D
Weight:	4.78 lbs.
Terminal Accommodation:	#10 AWG 18.0" Wire Leads
Frequency:	50/60 Hz
EMI/RFI:	Up to -30dB
Housing Rating:	Type 4X
Listing:	cULus UL 1449 4th edition type 2 SPD, UL1283 (Wye prod. only), CSA C22.2 NO. 8-M1986
Warranty:	10 year

## Wired-In Surge Arrestors and Protective Devices

Surge Arrestors are a low cost solution that may be installed on the line side or load side of the service entrance. These are also excellent for OEM applications where size is an important variable.

Hubbell's 50kA single phase wired-in high-quality surge protective device features a compact design, NEMA 4X rating and are UL1449 4th edition listed.

- 36,000, 40,000 and 50,000 Peak Amperage Capacity
- Surge arrestors are a low cost solution that may be installed on the line side or load side of the service entrance
- Excellent for OEM applications where size is an important variable
- Single phase wired-in surge protective devices feature a compact design



### Wired-In High-Quality Surge Protective Device (Type 1 SPD)

Service Voltage	Configuration	Peak Amp Capacity	Mounting Means	Catalog Number
120/240V AC Single Phase	1Ph. 3-wire + G	50kA	Side Nipple Mount	<b>HBL3W50</b>

### Wired-In Surge Arrestors, Single Phase and Three Phase (Type 1 SPD)

Service Voltage	Configuration	Peak Amp Capacity	Mounting Means	Catalog Number
120/240V AC Single Phase	1Ph. 3-wire	36kA	Back Nipple Mount	<b>HBLSDSA36</b>
120/208V AC Wye*	3Ph. 4-wire	40kA	Back Nipple Mount	<b>HBL4SA40</b>
240V AC Delta	3Ph. 3-wire	40kA	Back Nipple Mount	<b>HBL5SA40</b>
277/480V AC Wye**	3Ph. 4-wire	40kA	Back Nipple Mount	<b>HBL8SA40</b>
480V AC Delta	3Ph. 3-wire	40kA	Back Nipple Mount	<b>HBL9SA40</b>
347/600V AC Wye	3Ph. 4-wire	40kA	Back Nipple Mount	<b>HBL10SA40</b>
600V AC Delta	3Ph. 3-wire	40kA	Back Nipple Mount	<b>HBL11SA40</b>

### Electrical Specifications

Catalog Number	SCCR $\diamond$	$I_n$	MCOV $\dagger$	Voltage Protection Rating (VPR)			
				L-N	L-G	N-G	L-L
<b>HBL3W50</b>	25kA	10kA	150 (L-N, L-G), 300 (L-L)	700	800	N/A	1200
<b>HBLSDSA36</b>	22kA	10kA	150	700	N/A	N/A	1200
<b>HBL4SA40</b>	200kA	10kA	180 (L-N), 360 (L-L)	700	N/A	N/A	1200
<b>HBL5SA40</b>	200kA	10kA	360 (L-L)	N/A	N/A	N/A	1200
<b>HBL8SA40</b>	200kA	10kA	420 (L-N), 840 (L-L)	1500	N/A	N/A	2500
<b>HBL9SA40</b>	200kA	10kA	840 (L-L)	N/A	N/A	N/A	2500
<b>HBL10SA40</b>	200kA	10kA	510 (L-N), 1020 (L-L)	1800	N/A	N/A	3000
<b>HBL11SA40</b>	200kA	10kA	1020 (L-L)	N/A	N/A	N/A	3000

Note:  $\diamond$  SCCR - Short Circuit Current Rating.  $\dagger$  MCOV - Maximum Continuous Operating Voltage.  $I_n$  - Nominal discharge current.

### Product Specifications

Service Voltage	Single Phase	Single Phase	Three Phase
Max. Surge Current per Phase:	50kA	36kA	40kA
Max. Operating Temperature:	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)	-40°F to 149°F (-40°C to 65°C)
Diagnostics Indicators:	Green Status LED per line	Green Status LED per line	Green Status LED per line
Dimensions:	3.0"W x 3.6"H x 2.67"D	2.25"W x 2.25"H x 1.94"D	3.60"W x 3.0"H x 2.64"D
Weight:	1.8 lbs.	.72 lbs.	1.8 lbs.
Terminal Accommodation:	#12 AWG Wire Leads	#14 AWG Wire Leads	#12 AWG Wire Leads
Frequency:	50/60 Hz	50/60 Hz	50/60 Hz
EMI/RFI:	Up to -30dB	Up to -30dB	Up to -30dB
Housing Rating:	Type 4X	Type 4X	Type 4X
Listing:	UL1449 4th edition	UL1449 4th edition	UL1449 4th edition
Warranty:	10 year	2 year	2 year

# SpikeShield® Power Quality Products

## Features and Benefits



UL2930 Listed

### UL2930 Health Care Outlet Assembly (HCOA)

Hubbell's UL2930 HCOA's are the industry first UL listed product for patient care areas. The product is available with or without L-N surge protection.



**HBL6MG620**  
Surge Protected  
HCOA

**HBL6MGRPT620**  
RPT HCOA



#### Housing Design

- First UL2930 product ever sold
- 15A and 20A 125V versions
- Surge protected models in all configurations
- Non-surge protected RPT models in all configurations



#### Contacts

- Equipment grounding terminal



#### Safety

- Tamper-resistant flip covers
- Green LED indicates surge protection working



#### Cord

- 6 ft. or 15 ft. cord length
- 12/3 AWG cord on 15A and 20A models
- 45° angle plug (15A series)
- 90° angle plug (20A series)



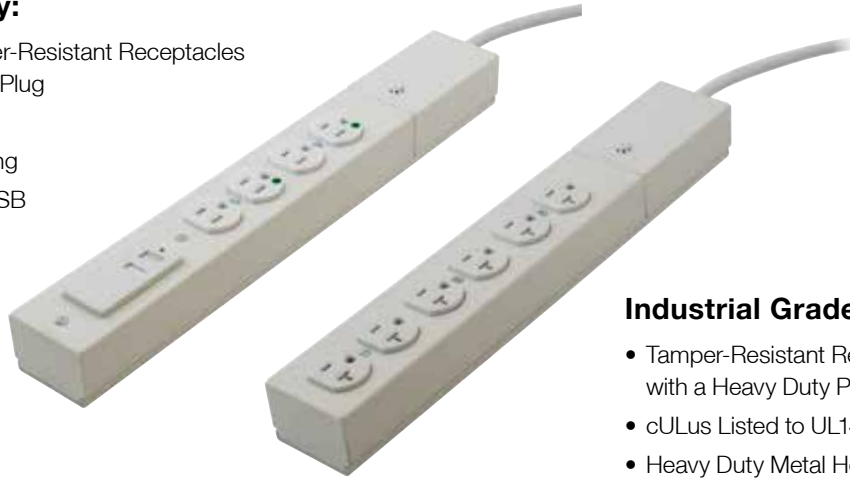
### UL2930 Health Care Outlet Assembly (HCOA)

Description	# of Outlets	Joule Rating	Cord Length	Color	15 Amp	20 Amp
UL 2930 HCOA with L-N Surge Protection	6	550	6'	White	<b>HBL6MG6</b>	<b>HBL6MG620</b>
	6	550	15'	White	<b>HBL6MG15</b>	<b>HBL6MG1520</b>
UL 2930 HCOA Relocatable Power Tap (RPT)	6	N/A	6'	White	<b>HBL6MGRPT6</b>	<b>HBL6MGRPT620</b>
	6	N/A	15'	White	<b>HBL6MGRPT15</b>	<b>HBL6MGRPT1520</b>

# SpikeShield® Power Quality Products

## Healthcare Industry:

- Hospital Grade ● Tamper-Resistant Receptacles with a Hospital Grade ● Plug
- cULus 1449 4th Edition
- Heavy Duty Metal Housing
- Available with a 2-Port USB Charging Outlet



Listed to UL1449 and UL1363

## Industrial Grade:

- Tamper-Resistant Receptacles with a Heavy Duty Plug
- cULus Listed to UL1449 4th Edition, UL1363
- Heavy Duty Metal Housing

## SpikeShield® Surge Protective Devices (SPD) with Tamper-Resistant Receptacles and Heavy Duty Plug

Description	# of Outlets	Joule Rating	Cord Length	Color	Healthcare Industry		Industrial Grade	
					15 Amp	20 Amp	15 Amp	20 Amp
UL Type 3 SPD, Heavy Duty Metal Housing	6	1100	6'	White	<b>HBL6HG6</b>	<b>HBL6HG620</b>	<b>HBL6SS6</b>	<b>HBL6SS620</b>
	6	1100	15'	White	<b>HBL6HG15</b>	<b>HBL6HG1520</b>	<b>HBL6SS15</b>	<b>HBL6SS1520</b>
UL Type 3 SPD, Heavy Duty Metal Housing with 2-port USB	4	1100	6'	White	<b>HBL6HGUSB6</b>	—	—	—

## Metallic Surge Protection Strips

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty	Catalog Number
Metal Power Strip (No surge protection)	6	N/A	N/A	6'	Off. White	N/A	<b>HBL6MPS</b>
Metal Power Strip (No surge protection)	6	N/A	N/A	15'	Off. White	N/A	<b>HBL6MPS15</b>
Metal SPD	6	1050	19.5kA	6'	Off. White	\$2,500	<b>HBL6MPS1050</b>
Metal SPD	6	1050	19.5kA	15'	Off. White	\$2,500	<b>HBL6MPS105015</b>
SPD with Wire Management	6	350	6.5kA	6'	Yellow	\$2,500	<b>HBL6PS350YL</b>
SPD with Wire Management	8	350	6.5kA	6'	Yellow	\$2,500	<b>HBL8PS350YL</b>



## Non-Metallic Surge Protection Strips

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty	Catalog Number
Power Strip (No surge protection)	6	N/A	N/A	6'	Off. White	N/A	<b>HBL6PPS</b>
SPD	6	350	6.5kA	6'	Off. White	\$2,500	<b>HBL6PS350A</b>
SPD	6	350	6.5kA	15'	Off. White	\$2,500	<b>HBL6PS35015A</b>
SPD with Fax/Modem	6	1050	19.5kA	6'	Off. White	\$2,500	<b>HBL6PS1050MA</b>
SPD	7	1050	19.5kA	6'	Off. White	\$10,000	<b>HBL7PS1050A</b>
SPD with Fax/Modem	7	1050	19.5kA	6'	Off. White	\$10,000	<b>HBL7PS1050MA</b>
SPD	7	1050	19.5kA	15'	Off. White	\$10,000	<b>HBL7PS105015A</b>
SPD with Fax/Modem/CATV	8	2100	39kA	6'	Off. White	\$25,000	<b>HBL8PS2100MA</b>
SPD with Two USB Ports and 90° Angle Plug.	4	1050	19.5kA	6'	Black	\$10,000	<b>HBL4PS1050USBA</b>



# SpikeShield® Power Quality Products

## Features and Benefits

### Surge Protection Receptacles

Hubbell offers a broad range SPD receptacles with technology that is unsurpassed. Inside Hubbell SPD receptacles are two 22mm square MOVs providing 240 joules of surge protection for each mode. The nylon component shield protects the printed circuit board from contaminants. An all-glass, conformably coated PC board provides superior moisture immunity for longer life in humid environments.

- Alarmed and non-alarmed versions
- Available in 15A and 20A versions
- Commercial Specification Grade and Hospital Grade
- IG available in all versions



IG8362SA

*Note: The effectiveness of SPD devices diminishes with the increase in distance between the device and the equipment to be protected.*



#### Housing Design

- Meets UL Standards 1449 4th Edition and 498; CSA Certified
- Impact-resistant nylon face
- Available in Hospital Grade, 4-PLEX®, SNAPConnect® and Tamper-Resistant
- Fits standard wall box



#### Terminals

- Back and side wiring capability provides easy installation with stranded or solid wire



#### One-Piece Mounting Strap

- Wrap-around, locked on steel mounting strap provides additional support strength for receptacle assembly
- Automatic self-grounding staple attached to bridge meets NEC® requirements



#### Contacts

- Green grounding screw connected directly to the grounding contacts



#### Identification

- Distinctive surge symbol provides quick visual identification
- Surge protection indicator light
- Muting screw allows damage-alert alarm to be silenced until device is replaced



#### 4-PLEX Surge Receptacles

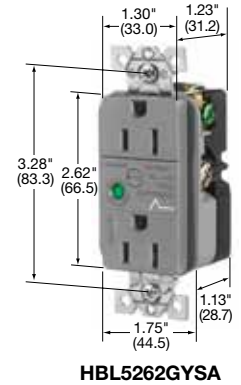
- Distinctive surge symbol
- Surge protection indicator light

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

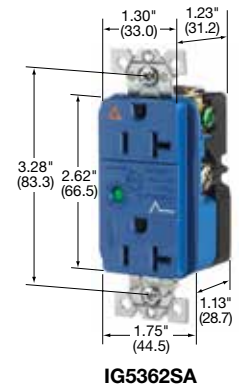
## Circuit Guard®, Specification Grade Duplex Receptacles



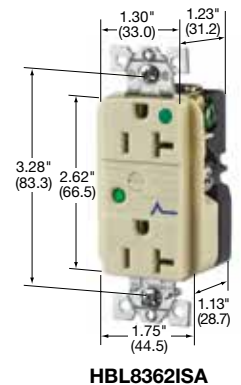
Description	Color	Catalog Number	
Surge protection receptacles with light, 240 joules, 15kA peak current.	Blue	<b>HBL5260SA</b>	<b>HBL5360SA</b>
	Ivory	<b>HBL5260ISA</b>	<b>HBL5360ISA</b>
	Office White	<b>HBL5260WSA</b>	<b>HBL5360OWSA</b>
	White	<b>HBL5260WSA</b>	<b>HBL5360WSA</b>
	Almond	<b>HBL5262ALSA</b>	<b>HBL5362ALSA</b>
Surge protection receptacles with light and alarm, 240 joules, 15kA peak current.	Blue	<b>HBL5262SA</b>	<b>HBL5362SA</b>
	Gray	<b>HBL5262GYSA</b>	<b>HBL5362GYSA</b>
	Ivory	<b>HBL5262ISA</b>	<b>HBL5362ISA</b>
	Office White	<b>HBL5262OWSA</b>	<b>HBL5362OWSA</b>
	White	<b>HBL5262WSA</b>	<b>HBL5362WSA</b>
Isolated ground, surge protection receptacles with light and alarm, 240 joules, 15kA peak current.	Blue	<b>IG5262SA</b>	<b>IG5362SA</b>
	Gray	<b>IG5262GYSA</b>	<b>IG5362GYSA</b>
	Ivory	<b>IG5262ISA</b>	<b>IG5362ISA</b>
	Office White	<b>IG5262OWSA</b>	<b>IG5362OWSA</b>
	Orange	<b>IG5262OSA</b>	<b>IG5362OSA</b>
4-PLEX® surge protection receptacles with lights, 80 joules, 6.5kA peak current.	Blue	<b>HBL415S</b>	<b>HBL420S</b>
	Ivory	<b>HBL415IS</b>	<b>HBL420IS</b>



**HBL5262GYSA**



**IG5362SA**



**HBL8362ISA**

## Circuit Guard®, Hospital Grade Duplex Receptacles


Description	Color	Catalog Number	
Surge protection receptacles with light and alarm, 240 joules, 15kA peak current.	Almond	<b>HBL8262ALSA</b>	<b>HBL8362ALSA</b>
	Blue	<b>HBL8262SA</b>	<b>HBL8362SA</b>
	Gray	<b>HBL8262GYSA</b>	<b>HBL8362GYSA</b>
	Ivory	<b>HBL8262ISA</b>	<b>HBL8362ISA</b>
	Red	<b>HBL8262RSA</b>	<b>HBL8362RSA</b>
	White	<b>HBL8262WSA</b>	<b>HBL8362WSA</b>
Isolated ground, surge protection receptacles with light and alarm, 240 joules, 15kA peak current.	Blue	<b>IG8262SA</b>	<b>IG8362SA</b>
	Gray	<b>IG8262GYSA</b>	<b>IG8362GYSA</b>
	Ivory	<b>IG8262ISA</b>	<b>IG8362ISA</b>
	Orange	<b>IG8262OSA</b>	<b>IG8362OSA</b>
	Red	<b>IG8262RSA</b>	<b>IG8362RSA</b>
	White	<b>IG8262WSA</b>	<b>IG8362WSA</b>
4-PLEX surge protection receptacles with lights, 80 joules, 6.5kA peak current.	Blue	—	<b>HBL420HS</b>
	Ivory	—	<b>HBL420HIS</b>
	Red	—	<b>HBL420HRS</b>

## 4-PLEX® Accessories

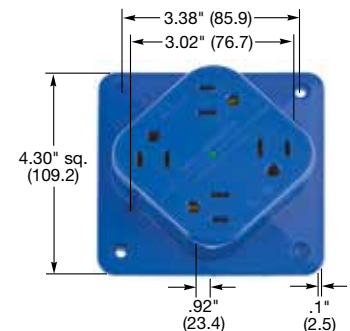
Description	Color	Catalog Number
4-PLEX adapter plates for 1- and 2-gang (4-PLEX mount directly to 4" (101.6) square device boxes).	Blue	<b>HBL4APBL</b>
	Ivory	<b>HBL4API</b>
	Red	<b>HBL4APR</b>
4-PLEX portable box. Portable 4" (101.6) square box with one cord grip. Accepts up to .66" (16.8) dia. cord.	Ivory	<b>HBL4PBI</b>

Note: 4-PLEX box is not UL Listed.

## Wallplates (Sold Separately)

Configuration	High-Impact Nylon			Plated Steel	Stainless Steel (S/S) Brass		
	Color	Standard	Mid-Size				
 1-Gang	Almond	<b>NP26AL</b>	<b>NPJ26AL</b>	Chrome Brass Plated	<b>SCH26</b> <b>SBP26</b>	Smooth S/S	<b>SS26</b>
	Blue	—	<b>NPJ26CBL*</b>			Smooth S/S	<b>SSJ26▲</b>
	Blue	—	<b>NPJ26BL</b>			Smooth Brass	<b>SB26</b>
	Gray	<b>NP26GY</b>	<b>NPJ26GY</b>				
	Ivory	—	<b>NPJ26C*</b>				
	Ivory	<b>NP26I</b>	<b>NPJ26I</b>				
	Off. White	<b>NP26OW</b>	<b>NPJ26OW</b>				
	Orange	<b>NP26OIG**</b>	—				
	Red	<b>NP26R</b>	<b>NPJ26R</b>				
	White	<b>NP26W</b>	<b>NPJ26W</b>				

Note: \*Premarked "COMPUTER ONLY." Lettering is block 1/4" high.  
 \*\*Premarked "ISOLATED GROUND." Lettering is block 1/4" high.  
 ▲ Jumbo size plate.  
 See section N for additional wallplates.



**HBL415S**

Dimensions in Inches (mm)

# SpikeShield® Power Quality Products

## Features and Benefits

### SNAPConnect® Surge Protection and Isolated Ground Receptacles Heavy Duty Specification Grade

Hubbell's SNAPConnect Isolated Ground devices are available in a variety of styles.

- All SNAPConnect IG receptacles include Hubbell's industry best tamper resistant shutter
- 15A and 20A models are available in Hospital Grade, HG Decorator, Commercial Specification Grade, and Commercial Decorator versions
- SNAPConnect IG devices are also available with a power indicating LED version in all the aforementioned grades. The power indicating product is also available in a non TR shutter design
- SNAPConnect connectors come standard with solid or stranded 12 AWG THHN



Note: The effectiveness of SPD devices diminishes with the increase in distance between the device and the equipment to be protected.



#### Protection

- Hubbell surge receptacles offer 240 joules of protection and 15 kA peak current rating
- Distinctive surge symbol provides quick visual identification
- Surge protection LED indicator flashes when surge protection is lost
- Audible alarm also provides user notification that surge protection has been lost. Muting screw allows user to turn alarm OFF once replacement has been scheduled



#### Isolated Ground

- IG triangle on the face of the receptacle clearly indicates isolated ground device
- LED Power-ON indicator available on all models
- Hubbell's patented TR shutter design is utilized on all IG receptacles that feature the Tamper-Resistant option



#### Installation

- SNAPConnect® devices reduce labor time during installation and when being serviced in the future
- Connectors available with solid or stranded leads
- Custom length leads available
- Push on wire option also available on SNAPConnectors



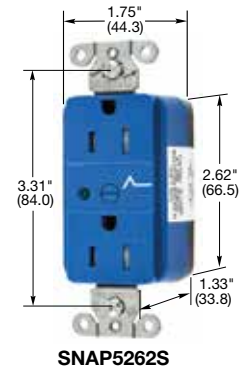
#### Installation

- SNAPConnect® Isolated ground devices are available in standard duplex design or decorator shape
- 15A and 20A version in Commercial Specification Grade and Hospital Grade
- SNAPConnect® Isolated Ground devices provide a clean ground path for sensitive equipment

## SNAPConnect® Tamper-Resistant Surge Protection Receptacle with Power Indicating LED



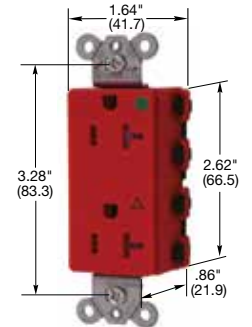
Description	Color	Catalog Number	
Hospital Grade ● SNAPConnect® Tamper-Resistant, surge suppression duplex receptacle, smooth face, 240 joules, 15kA peak current.	Blue	<b>SNAP8262S</b>	<b>SNAP8362S</b>
	Gray	<b>SNAP8262GYS</b>	<b>SNAP8362GYS</b>
	Ivory	<b>SNAP8262IS</b>	<b>SNAP8362IS</b>
	Light Almond	<b>SNAP8262LAS</b>	<b>SNAP8362LAS</b>
	Red	<b>SNAP8262RS</b>	<b>SNAP8362RS</b>
	White	<b>SNAP8262WS</b>	<b>SNAP8362WS</b>
Commercial Grade SNAPConnect® Tamper-Resistant, surge suppression duplex receptacle, smooth face, 240 joules, 15kA peak current.	Blue	<b>SNAP5262S</b>	<b>SNAP5362S</b>
	Gray	<b>SNAP5262GYS</b>	<b>SNAP5362GYS</b>
	Ivory	<b>SNAP5262IS</b>	<b>SNAP5362IS</b>
	Light Almond	<b>SNAP5262LAS</b>	<b>SNAP5362LAS</b>
	White	<b>SNAP5262WS</b>	<b>SNAP5362WS</b>



SNAP5262S

## SNAPConnect® Tamper-Resistant Isolated Ground Receptacle

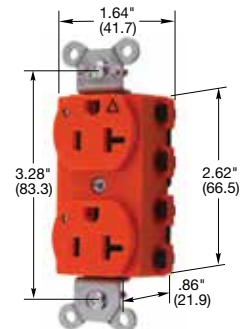
Description	Color	Catalog Number	
Hospital Grade ● SNAPConnect® Tamper-Resistant, isolated ground, smooth face, duplex.	Orange	<b>SNAP8200IGTRA</b>	<b>SNAP8300IGTRA</b>
	Red	<b>SNAP8200RIGTRA</b>	<b>SNAP8300RIGTRA</b>
Hospital Grade ● Style Line® decorator SNAPConnect® Tamper-Resistant, isolated ground, smooth face, duplex.	Orange	<b>SNAP2172IGTRA</b>	<b>SNAP2182IGTRA</b>
	Red	<b>SNAP2172RIGTRA</b>	<b>SNAP2182RIGTRA</b>
Commercial Grade, isolated ground.	Orange	<b>SNAP5262IGTRA</b>	<b>SNAP5362IGTRA</b>
Style Line® decorator.	Orange	<b>SNAP2152IGTRA</b>	<b>SNAP2162IGTRA</b>



SNAP2182RIGTRA

## SNAPConnect® Isolated Ground Receptacle with Power Indicating LED

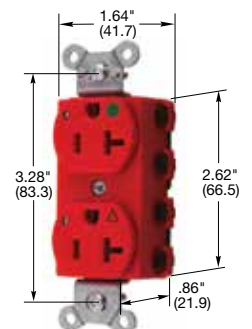
Description	Color	Catalog Number	
Hospital Grade ● SNAPConnect® Tamper-Resistant, isolated ground, smooth face, duplex.	Orange	<b>SNAP8200IGL</b>	<b>SNAP8300IGL</b>
	Red	<b>SNAP8200RIGL</b>	<b>SNAP8300RIGL</b>
Hospital Grade ● Style Line® decorator SNAPConnect® Tamper-Resistant, isolated ground, smooth face, duplex.	Orange	<b>SNAP2172IGL</b>	<b>SNAP2182IGL</b>
	Red	<b>SNAP2172RIGL</b>	<b>SNAP2182RIGL</b>
Commercial Grade, isolated ground.	Orange	<b>SNAP5262IGL</b>	<b>SNAP5362IGL</b>
Style Line® decorator.	Orange	<b>SNAP2152IGL</b>	<b>SNAP2162IGL</b>



SNAP5362IGL

## SNAPConnect® Tamper-Resistant Isolated Ground Receptacle with Power Indicating LED

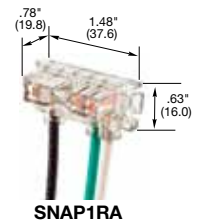
Description	Color	Catalog Number	
Hospital Grade ● SNAPConnect® Tamper-Resistant, isolated ground, smooth face, duplex.	Orange	<b>SNAP8200IGLTRA</b>	<b>SNAP8300IGLTRA</b>
	Red	<b>SNAP8200RIGLTRA</b>	<b>SNAP8300RIGLTRA</b>
Commercial Grade Style Line® decorator.	Orange	<b>SNAP2172IGLTRA</b>	<b>SNAP2182IGLTRA</b>
	Red	<b>SNAP2172RIGLTRA</b>	<b>SNAP2182RIGLTRA</b>
Commercial Grade, isolated ground.	Orange	<b>SNAP5262IGLTRA</b>	<b>SNAP5362IGLTRA</b>
Style Line® decorator.	Orange	<b>SNAP2152IGLTRA</b>	<b>SNAP2162IGLTRA</b>



SNAP8300RIGLTRA

## SNAPConnect® Right Angle Pigtailed Connector for General Use

Description	Solid Wire	Stranded Wire
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2, 600V, Polycarbonate housing material.	<b>SNAP1RA</b>	<b>SNAP2RA</b>



SNAP1RA

Note: See page Tech-10 for Tamper-Resistant and LED Power Indicators descriptions.

Dimensions in Inches (mm)



# SpikeShield® Power Quality Products

## Features and Benefits

### Straight Blade Isolated Ground Receptacles

In February 1968, Hubbell patented the first isolated ground receptacle. Today —when a clean, noise-free ground is more important than ever—Hubbell is still setting the standard.

Hubbell uses insulation barrier construction on many models to isolate the ground contacts from the mounting strap. The green grounding screw is connected directly to the grounding contacts. In this way, ground contacts are separated from the mounting strap and also from the conventional grounding system. The isolated ground circuit is completed by running a dedicated insulated ground wire from the system ground buss to the green grounding screw.

And there's more to the Hubbell line:

- Available in 19 NEMA configurations and a total of 60 different type receptacles.
- Versatility and mobility: With Hubbell's grounding method, Hubbell's IG devices can be mounted in boxes, on metal panels almost anywhere.
- Hubbell quality: Every Hubbell IG device meets and exceeds all applicable codes and standards, specially the toughest standard of all, the Hubbell standard of excellence.



IG5362



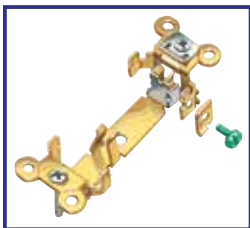
#### Housing Design

- Dimensionally stable, reinforced thermoplastic polyester provides impact strength in addition to heat and flame resistance
- Impact-resistant nylon face
- Straight blade 15A and 20A, 125V duplex receptacles are available in a variety of colors



#### Terminals

- Back and side wiring capability provides easy installation with stranded or solid wire



#### One-Piece Mounting Strap

- Wrap-around, locked on brass mounting strap provides additional support strength for receptacle assembly
- Automatic self-grounding clip assures ground continuity between mounting strap and metal wall box



#### Contacts

- Green grounding screw connected directly to the grounding contacts
- Insulation barrier construction — first patented by Hubbell — isolates ground contacts from the mounting strap



#### Identification

- IG triangle on the face of the receptacle clearly indicates isolated ground device
- Amperage and voltage clearly indicated



#### Center Rivet

- Square head, 10-thread bronze center rivet won't rotate, reduces stripping and resists corrosion



## Hospital Grade ●, HBL® Extra Heavy Duty, Isolated Ground Receptacles

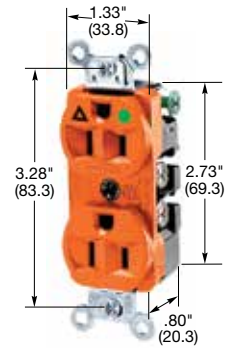


**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

Description	Color	Catalog Number	
Flush, thermoplastic polyester face, duplex, back and side wired, multiple drive screws.	Orange	<b>IG8200</b>	<b>IG8300</b>
	Red	<b>IG8200R</b>	<b>IG8300R</b>
Style Line® decorator.	Orange	—	<b>IG2182</b>
	Ivory	—	<b>IG2182I</b>
	White	—	<b>IG2182WA</b>
Flush, thermoplastic polyester face, single.	Orange	<b>IG8210</b>	<b>IG8310</b>



**IG8200**

## 15A and 20A, 125V HBL® Extra Heavy Duty, Specification Grade, Isolated Ground Receptacles

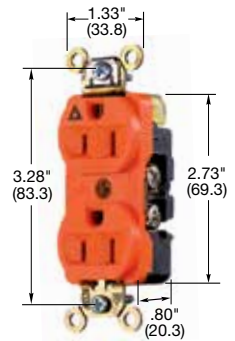


**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP

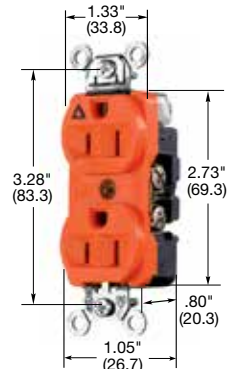


**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP

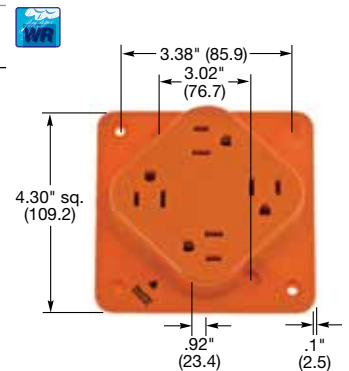
Description	Color	Catalog Number	
Flush, nylon face, duplex, back and side wired, multiple drive screws.	Orange	<b>IG5262</b>	<b>IG5362</b>
	Gray	<b>IG5262GY</b>	<b>IG5362GY</b>
	Ivory	<b>IG5262I</b>	<b>IG5362I</b>
	Red	<b>IG5262R</b>	<b>IG5362R</b>
	White	—	<b>IG5362W</b>
Weather Resistant, duplex, isolated ground.	Orange	<b>IG5262WR</b>	<b>IG5362WR</b>
	Gray	<b>IG5262GYWR</b>	<b>IG5362GYWR</b>
	Ivory	<b>IG5262IWR</b>	<b>IG5362IWR</b>
	Red	<b>IG5262RWR</b>	<b>IG5362RWR</b>
	White	—	<b>IG5362WWR</b>
Finder groove, nylon face, duplex, back and side wired.	Orange	<b>CR5252IG</b>	<b>CR5352IG</b>
	Black	<b>CR5252IGBK</b>	<b>CR5352IGBK</b>
	Blue	—	<b>CR5352IGBL</b>
	Gray	<b>CR5252IGGY</b>	<b>CR5352IGGY</b>
	Ivory	<b>CR5252IGI</b>	<b>CR5352IGI</b>
	Office White	<b>CR5252IGOW</b>	<b>CR5352IGOW</b>
	White	<b>CR5252IGW</b>	<b>CR5352IGW</b>
Style Line® decorator, flush, nylon face, back and side wired.	Orange	<b>IG2152</b>	<b>IG2162</b>
	Gray	—	<b>IG2162GY</b>
4-PLEX® receptacle.	Orange	<b>IG415</b>	<b>IG420*</b>
Flush, nylon face, single, back and side wired.	Orange	<b>IG5261</b>	<b>IG5361</b>
	Orange	<b>IG5261WR</b>	<b>IG5361WR</b>



**IG5262**



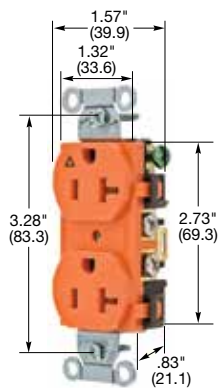
**CR5252IG**



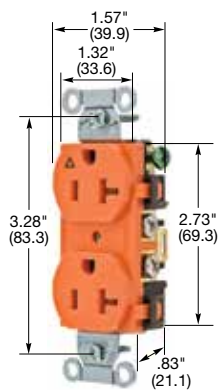
**IG415**

Note: \*Not Fed. Spec. Listed.  
See page Tech-10 for Weather Resistant description.  
See page A-46 and A-47 for accessories.  
See page A-23 for 4-PLEX accessories.

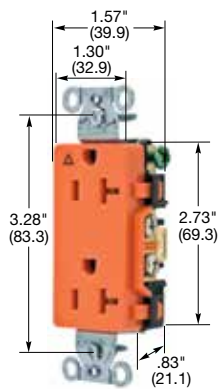
Dimensions in Inches (mm)



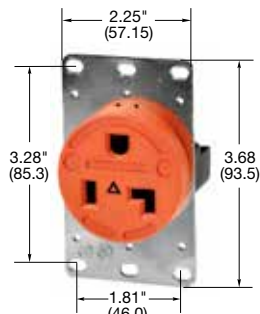
**IG5352**



**IG20CR**



**IG20DR**



**IG9308**

## Hubbell-PRO Heavy Duty Specification Grade



**15A 125V**  
NEMA 5-15R  
UL CSA  
0.5 HP



**20A 125V**  
NEMA 5-20R  
UL CSA  
1 HP



Tamper-Resistant, smooth face, duplex, back and side wired.

Description	Color	Catalog Number	
Smooth face, duplex, back and side wired.	Orange	<b>IG5252</b>	<b>IG5352</b>
	Almond	<b>IG5252AL</b>	<b>IG5352AL</b>
	Gray	<b>IG5252GY</b>	<b>IG5352GY</b>
	Ivory	<b>IG5252I</b>	<b>IG5352I</b>
	Light Almond	<b>IG5252LA</b>	<b>IG5352LA</b>
	White	<b>IG5252W</b>	<b>IG5352W</b>
Tamper-Resistant, smooth face, duplex, back and side wired.	Orange	<b>IG5252TR</b>	<b>IG5352TR</b>
	Ivory	<b>IG5252ITR</b>	<b>IG5352ITR</b>
	White	<b>IG5252WTR</b>	<b>IG5352WTR</b>

Note: See page Tech-10 for Tamper-Resistant description.

## Commercial Specification Grade

Description	Color	Catalog Number	
Smooth face, duplex, side wired.	Orange	<b>IG15CR</b>	<b>IG20CR</b>
	Almond	<b>IG15CRAL</b>	<b>IG20CRAL</b>
	Gray	<b>IG15CRGRY</b>	<b>IG20CRGRY</b>
	Ivory	<b>IG15CRI</b>	<b>IG20CRI</b>
	Light Almond	<b>IG15CRLA</b>	<b>IG20CRLA</b>
	White	<b>IG15CRWHI</b>	<b>IG20CRWHI</b>
Style Line® decorator; smooth face; back and side wired.	Orange	<b>IG15DR</b>	<b>IG20DR</b>
	Almond	<b>IG15DRAL</b>	<b>IG20DRAL</b>
	Gray	<b>IG15DRGRY</b>	<b>IG20DRGRY</b>
	Ivory	<b>IG15DRI</b>	<b>IG20DRI</b>
	Light Almond	<b>IG15DRLA</b>	<b>IG20DRLA</b>
	White	<b>IG15DRWHI</b>	<b>IG20DRWHI</b>

## 15A and 20A, 250V HBL® Extra Heavy Duty, Specification Grade, Isolated Ground Receptacles



**15A 250V**  
NEMA 6-15R  
UL CSA  
1.5 HP



**20A 250V**  
NEMA 6-20R  
UL CSA  
2 HP

Description	Color	Catalog Number	
Flush, nylon face, duplex, back and side wired, multiple drive screws.	Orange	<b>IG5662</b>	<b>IG5462</b>
Flush, nylon face, single.	Orange	<b>IG5661</b>	<b>IG5461</b>

**IP20**  
SUITABILITY



**30A 125V**  
NEMA 5-30R  
UL CSA  
2 HP



**30A 250V**  
NEMA 6-30R  
UL CSA  
2 HP

Description	Color	Catalog Number	
Single receptacle, 2 pole, 3 wire grounding.	Orange	<b>IG9308</b>	<b>IG9330</b>

Dimensions in Inches (mm)

# SpikeShield® Power Quality Products

## Features and Benefits

### Isolated Ground Twist-Lock® Receptacles

Hubbell uses insulation barrier construction to isolate the ground contacts from the mounting strip, providing a clean, noise-free ground for sensitive equipment.

Face color-coding by voltage facilitates locating and mating of proper devices.



125V AC



250V AC



480V AC



125/250V AC



IG2310



#### Housing Design

- Impact-resistant nylon face
- Boss diameter is 1.56 in. (39.6) on 20 and 30A devices, simplifying installation
- Glass-filled thermoplastic polyester base is heat and impact resistant, providing dimensional stability and strength



#### Terminals

- Back and side wiring capability provides easy installation with stranded or solid wire



#### Mounting Strap

- All-brass mounting and grounding system provides a low resistance ground path
- Automatic self-grounding clip assures ground continuity between mounting strap and metal wall box



#### Contacts

- Insulation barrier construction first patented by Hubbell isolates ground contact from the mounting strap
- Wire restraint recess for both back and side wiring reduces terminal loosening
- One-piece contact with long spring arm (low stress) and oxide cutting nibs; prevents stress and overheating



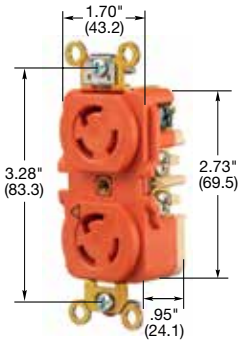
#### Identification

- Color-coding by voltage rating helps ensure mating of proper devices
- Amperage and voltage clearly indicated



#### Wiring

- #10 silicon bronze terminal screw provides excellent strength and resistance to corrosion and stripping
- Accommodates both back and side wiring
- External back wiring allows visual inspection of terminations



**IG4700A**

## 15A, 125V and 250V Back and Side Wired



**15A 125V**  
NEMA L5-15R  
UL/CSA



**15A 250V**  
NEMA L6-15R  
UL/CSA

Description	Poles/Wires	Color	Catalog Number	Catalog Number
Flush, RTP face, duplex.	2 pole, 3 wire	Orange	<b>IG4700A*</b>	<b>IG4550A*</b>
Flush, RTP face, single.	2 pole, 3 wire	Orange	<b>IG4710</b>	<b>IG4560</b>

*Note: RTP is an abbreviation for reinforced thermoplastic polyester.  
\*Supplied with break-off tabs for split circuit wiring.*



**20A 125V**  
NEMA L5-20R  
UL/CSA  
1 HP



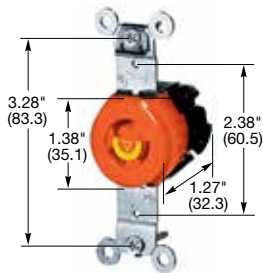
**20A 250V**  
NEMA L6-20R  
UL/CSA  
2 HP



**20A 480V AC**  
NEMA L8-20R  
UL/CSA  
3 HP

## 20A, 125V, 250V and 480V AC Back and Side Wired

Description	Poles/Wires	Color	Catalog Number	Catalog Number	Catalog Number
Flush, nylon face, single.	2 pole, 3 wire	Orange	<b>IG2310</b>	<b>IG2320</b>	<b>IG2340</b>



**IG4710**

## 30A, 125V and 250V Back and Side Wired



**30A 125V**  
NEMA L5-30R  
UL/CSA  
2 HP



**30A 250V**  
NEMA L6-30R  
UL/CSA  
2 HP

Description	Poles/Wires	Color	Catalog Number	Catalog Number
Flush, nylon face, single.	2 pole, 3 wire	Orange	<b>IG2610</b>	<b>IG2620</b>



**20A 125/250V AC**  
NEMA L14-20R  
UL/CSA  
2 (1) HP



**20A 3Ø 250V AC**  
NEMA L15-20R  
UL/CSA  
3 HP

## 20A, 125V/250V and 3Ø 250V AC Back and Side Wired

Description	Poles/Wires	Color	Catalog Number	Catalog Number
Flush, nylon face, single.	3 pole, 4 wire	Orange	<b>IG2410</b>	<b>IG2420</b>



**30A 125/250V AC**  
NEMA L14-30R  
UL/CSA  
2 (2) HP



**30A 3Ø 250V AC**  
NEMA L15-30R  
UL/CSA  
3 HP

## 30A, 125V/250V and 3Ø 250V AC Back and Side Wired

Description	Poles/Wires	Color	Catalog Number	Catalog Number
Flush, nylon face, single.	3 pole, 4 wire	Orange	<b>IG2710</b>	<b>IG2720</b>



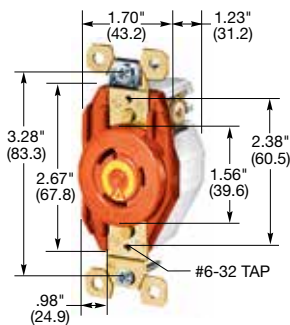
**20A 3Ø**  
120/208V AC  
NEMA L21-20R  
UL/CSA  
2 HP



**30A 3Ø**  
120/208V AC  
NEMA L21-30R  
UL/CSA  
3 HP

## 20A and 30A, 3ØY 120/208V AC Back and Side Wired

Description	Poles/Wires	Color	Catalog Number	Catalog Number
Flush, nylon face, single.	4 pole, 5 wire	Orange	<b>IG2510</b>	<b>IG2810</b>



**IG2310**

Dimensions in Inches (mm)

# SECTION N

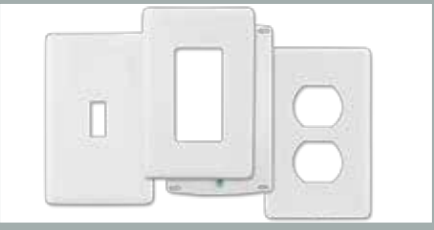
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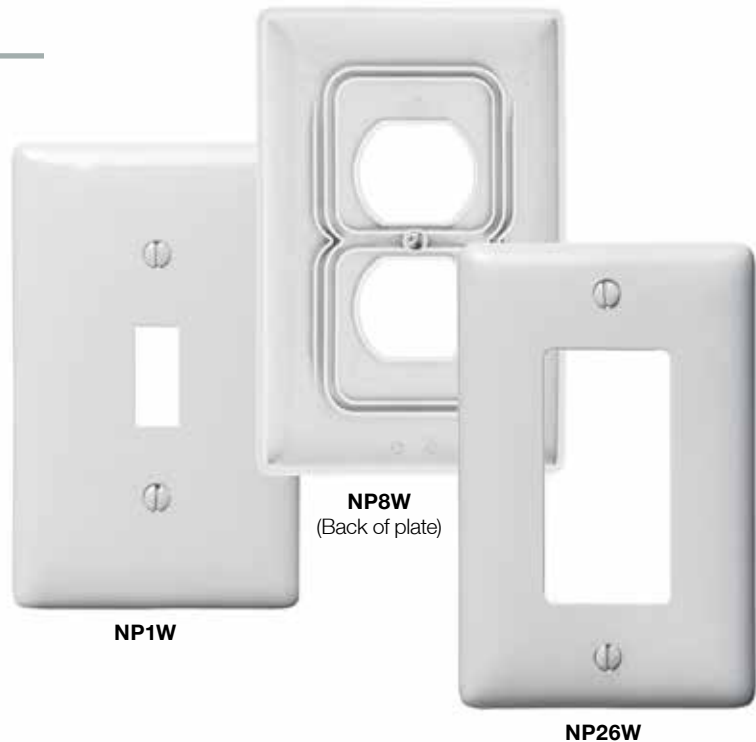
# Wallplates and Covers

## Features and Benefits

### Nylon Wallplates

Our line of nylon wallplates features larger standard sized wallplates to provide extra coverage to hide rough box opening, improved aesthetics, greater strength, impact resistance, along with excellent cleanability in all different types of environments.

- Standard size is 1/8 inch larger to give you extra coverage to hide rough box openings. Also available in mid-size, jumbo and pre-marked
- Curved corners for improved aesthetics, for use in any application
- Reinforcement ribs for extra strength
- Captive screw feature holds mounting screw in place for quick and easy installation
- High-impact, self-extinguishing nylon material, which is virtually unbreakable
- Smooth, easy to clean finish is highly resistant to solvents and cleaning solutions, providing long life in the harshest environments



Hubbell's standard sized wallplates are 1/8 inch larger to provide you that extra coverage to hide rough box openings. The depth is 1/4 inch so that it will comfortably fit over the device even on imperfect installations or on retrofit work. See page N-30 for details and dimensions.

### Nylon Wallplates



### Nylon Pre-Marked Wallplates



### Metal Wallplates



# Wallplates and Covers

## Features and Benefits

### Stainless Steel Wallplates

Provide solutions for a variety of industrial and commercial applications.

#### 302/304 Type Stainless Steel

Non-magnetic: 18.0% Chromium  
8.0% Nickel

- Ideal for highly corrosive environments such as food processing, hospitals, static free requirements and more
- Environments subjected to heavy abuse

#### 430 Type Stainless Steel

Magnetic: 17.0% Chromium  
Less than 0.5% Nickel

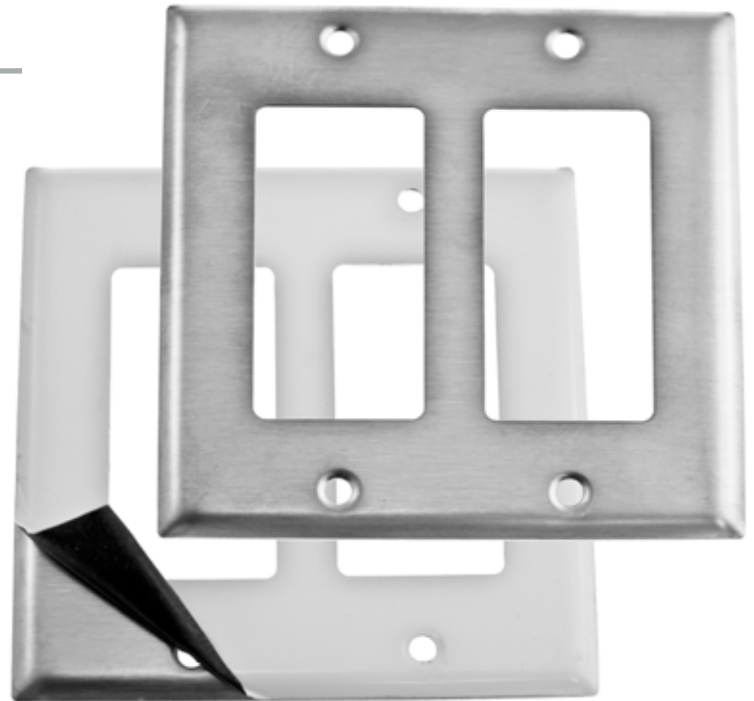
- Aesthetically identical to the 302/304 type stainless steel wallplates and are best suited for environments where corrosion resistance is less critical
- Standard commercial use

### Smooth Solid Brass

- Provides a plush appearance with the durability of metal
- Finish is lacquer coated to inhibit oxidation

### Anodized Aluminum

- Non-magnetic and corrosion resistance for a wide range of applications
- Finish is lacquer coated to inhibit oxidation



**SS262**

(Protective plastic film helps to prevent scratches and damage)



### Extra-Duty Metallic While-in-Use Covers

These covers are designed for use whenever protection is required while an outlet is in use. Covers meet or exceed the extra-duty rating per UL 514D, and are NEMA 3R rated.

- Die-cast aluminum construction
- Powder coated “chip resistant” paint corrosion protection
- Unique plug management provision for securing device and cord

### 2017 National Electrical Code (NEC®) Requirement

#### 406.9 Receptacles in Damp or Wet Locations.

(B) Wet Locations.

(1) 15 and 20 Ampere Receptacles in a Wet Location. 15 and 20 ampere, 125 and 250 volt receptacles installed in a wet location shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted. An outlet box hood installed for this purpose shall be listed, and shall be identified as “extra-duty.” Other listed products, enclosures, or assemblies providing weatherproof protection that do not utilize an outlet box need not be marked “extra-duty.” All 15 and 20 ampere, 125 and 250 volt nonlocking-type receptacles shall be listed weather-resistant type.

Exception: 15 and 20 ampere, 125 through 250 volt receptacles installed in a wet location and subject to routine high-pressure spray washing shall be permitted to have an enclosure that is weatherproof when the attachment plug is removed.

(2) Other Receptacles. All other receptacles installed in a wet location shall comply with (B)(2)(a) or (B)(2)(b).

(a) A receptacle installed in a wet location, where the product intended to be plugged into it is not attended while in use, shall have an enclosure that is weatherproof with the attachment plug cap inserted or removed.

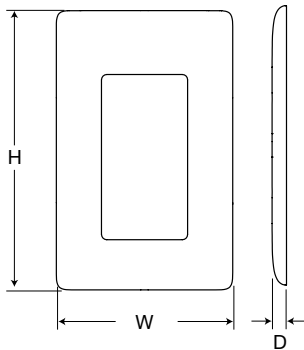
(b) A receptacle installed in a wet location where the product intended to be plugged into it will be attended while in use (e.g., portable tools) shall have an enclosure that is weatherproof when the attachment plug is removed.

## Snap-On Wallplates

- Clean, elegant look
- No visible screws
- Snap-on cover plate completely covers sub-plate eliminating dirt build-up around the edges
- Snap-on cover plate hides any paint or scratches on sub-plate caused during installation
- Appearance is consistent with other Hubbell wallplates
- Meets UL and CSA standards











Snap-On Cover Plate












Gang	Height (H)	Width (W)	Depth (D)
1	4.75" (120.6)	3.00" (76.2)	.25" (6.35)
2	4.75" (120.6)	4.81" (122.2)	.25" (6.35)
3	4.75" (120.6)	6.62" (168.2)	.25" (6.35)
4	4.75" (120.6)	8.44" (214.3)	.25" (6.35)

## Snap-On Wallplates

Description		Color	Decorator Catalog Number	Toggle Catalog Number
 1-Gang, 1-Decorator	 1-Gang, 1-Toggle	Ivory Light Almond White	<b>NPS26I</b> <b>NPS26LA</b> <b>NPS26W</b>	<b>NPS1I</b> <b>NPS1LA</b> <b>NPS1W</b>
 2-Gang, 2-Decorator	 2-Gang, 2-Toggle	Ivory Light Almond White	<b>NPS262I</b> <b>NPS262LA</b> <b>NPS262W</b>	<b>NPS2I</b> <b>NPS2LA</b> <b>NPS2W</b>
 3-Gang, 3-Decorator	 3-Gang, 3-Toggle	Ivory Light Almond White	<b>NPS263I</b> <b>NPS263LA</b> <b>NPS263W</b>	<b>NPS3I</b> <b>NPS3LA</b> <b>NPS3W</b>
 4-Gang, 4-Decorator		Ivory Light Almond White	<b>NPS264I</b> <b>NPS264LA</b> <b>NPS264W</b>	- - -
 1-Gang, 1-Duplex		Ivory Light Almond White	<b>NPS8I</b> <b>NPS8LA</b> <b>NPS8W</b>	- - -

Dimensions in Inches (mm)

## Toggle Switch Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Nylon Jumbo	Material	Metal Catalog Number
 1-Gang, 1-Toggle	Almond	<b>NP1AL</b>	<b>NPJ1AL</b>	-	Aluminum	<b>SA1</b>
	Black	<b>NP1BK</b>	<b>NPJ1BK</b>	-	Brass	<b>SB1</b>
	Brown	<b>NP1</b>	<b>NPJ1</b>	-	Brass Plated	<b>SBP1</b>
	Gray	<b>NP1GY</b>	<b>NPJ1GY</b>	-	Chrome	<b>SCH1</b>
	Ivory	<b>NP1I</b>	<b>NPJ1I</b>	<b>NPJJ1I</b>	S/S 302/304	<b>SS1</b>
	Light Almond	<b>NP1LA</b>	<b>NPJ1LA</b>	<b>NPJJ1LA</b>	S/S 430	<b>SS1L</b>
	Office White	<b>NP1OW</b>	<b>NPJ1OW</b>	-	Steel, Almond	<b>SP1AL*</b>
	Red	<b>NP1R</b>	<b>NPJ1R</b>	-	Steel, Gray	<b>SP1G*</b>
	White	<b>NP1W</b>	<b>NPJ1W</b>	<b>NPJJ1W</b>		
 2-Gang, 2-Toggle	Almond	<b>NP2AL</b>	<b>NPJ2AL</b>	-	Aluminum	<b>SA2</b>
	Black	<b>NP2BK</b>	<b>NPJ2BK</b>	-	Brass	<b>SB2</b>
	Brown	<b>NP2</b>	<b>NPJ2</b>	-	Brass Plated	<b>SBP2</b>
	Gray	<b>NP2GY</b>	<b>NPJ2GY</b>	-	Chrome	<b>SCH2</b>
	Ivory	<b>NP2I</b>	<b>NPJ2I</b>	<b>NPJJ2I</b>	S/S 302/304	<b>SS2</b>
	Light Almond	<b>NP2LA</b>	<b>NPJ2LA</b>	<b>NPJJ2LA</b>	S/S 430	<b>SS2L</b>
	Office White	<b>NP2OW</b>	<b>NPJ2OW</b>	-	Steel, Almond	<b>SP2AL*</b>
	Red	<b>NP2R</b>	<b>NPJ2R</b>	-	Steel, Gray	<b>SP2G*</b>
	White	<b>NP2W</b>	<b>NPJ2W</b>	<b>NPJJ2W</b>		
 3-Gang, 3-Toggle	Almond	<b>NP3AL</b>	<b>NPJ3AL</b>	-	Aluminum	①
	Black	<b>NP3BK</b>	<b>NPJ3BK</b>	-	Brass	<b>SB3</b>
	Brown	<b>NP3</b>	<b>NPJ3</b>	-	Brass Plated	<b>SBP3</b>
	Gray	<b>NP3GY</b>	<b>NPJ3GY</b>	-	Chrome	<b>SCH3</b>
	Ivory	<b>NP3I</b>	<b>NPJ3I</b>	-	S/S 302/304	<b>SS3</b>
	Light Almond	<b>NP3LA</b>	<b>NPJ3LA</b>	-	S/S 430	<b>SS3L</b>
	Office White	<b>NP3OW</b>	<b>NPJ3OW</b>	-	Steel, Almond	<b>SP3AL*</b>
	Red	-	<b>NPJ3R</b>	-		
	White	<b>NP3W</b>	<b>NPJ3W</b>	-		
 4-Gang, 4-Toggle	Black	<b>NP4BK</b>	<b>NPJ4BK</b>	-	Aluminum	①
	Brown	<b>NP4</b>	<b>NPJ4</b>	-	Brass	<b>SB4</b>
	Gray	<b>NP4GY</b>	<b>NPJ4GY</b>	-	Brass Plated	<b>SBP4</b>
	Ivory	<b>NP4I</b>	<b>NPJ4I</b>	-	Chrome	①
	Light Almond	<b>NP4LA</b>	<b>NPJ4LA</b>	-	S/S 302/304	<b>SS4</b>
	Office White	<b>NP4OW</b>	<b>NPJ4OW</b>	-	S/S 430	<b>SS4L</b>
	White	<b>NP4W</b>	<b>NPJ4W</b>	-	Steel, Almond	<b>SP4AL*</b>
 5-Gang, 5-Toggle	Black	<b>NP5BK</b>	-	-	Aluminum	①
	Brown	<b>NP5</b>	-	-	Brass	<b>SB5</b>
	Gray	<b>NP5GY</b>	-	-	Brass Plated	①
	Ivory	<b>NP5I</b>	-	-	Chrome	①
	Light Almond	<b>NP5LA</b>	-	-	S/S 302/304	<b>SS5</b>
	White	<b>NP5W</b>	-	-	S/S 430	-
					Steel, Almond	<b>SP5AL*</b>
 6-Gang, 6-Toggle	Brown	<b>NP6</b>	-	-	Aluminum	①
	Gray	<b>NP6GY</b>	-	-	Brass	<b>SB6</b>
	Ivory	<b>NP6I</b>	-	-	Brass Plated	①
	Light Almond	<b>NP6LA</b>	-	-	Chrome	①
	White	<b>NP6W</b>	-	-	S/S 302/304	<b>SS6</b>
					S/S 430	-
					Steel, Almond	<b>SP6AL*</b>
 7-Gang, 7-Toggle	Almond	-	-	-	Aluminum	①
	Brown	-	-	-	Brass	①
	Gray	-	-	-	Brass Plated	①
	Ivory	-	-	-	Chrome	①
	White	-	-	-	S/S 302/304	<b>SS607</b>
					S/S 430	-
 8-Gang, 8-Toggle	Almond	-	-	-	Aluminum	①
	Brown	-	-	-	Brass	①
	Gray	-	-	-	Brass Plated	①
	Ivory	-	-	-	Chrome	①
	White	-	-	-	S/S 302/304	<b>SS608</b>
					S/S 430	-
 2-Gang, 1-Toggle	Almond	-	-	-	Aluminum	-
	Brown	-	-	-	Brass	-
	Gray	-	-	-	Brass Plated	-
	Ivory	-	-	-	Chrome	-
	White	-	-	-	S/S 302/304	<b>SS740</b>
					S/S 430	-




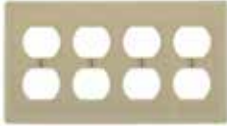

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.




\*Powder coat paint finish.

Dimensions in Inches (mm)

## Duplex Receptacle Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Nylon Jumbo	Material	Metal Catalog Number
 1-Gang, 1-Duplex	Almond	<b>NP8AL</b>	<b>NPJ8AL</b>	-	Aluminum	<b>SA8</b>
	Black	<b>NP8BK</b>	<b>NPJ8BK</b>	-	Brass	<b>SB8</b>
	Blue	-	<b>NPJ8BL</b>	-	Brass Plated	<b>SBP8</b>
	Brown	<b>NP8</b>	<b>NPJ8</b>	-	Chrome	<b>SCH8</b>
	Gray	<b>NP8GY</b>	<b>NPJ8GY</b>	-	S/S 302/304	<b>SS8</b>
	Ivory	<b>NP8I</b>	<b>NPJ8I</b>	<b>NPJJ8I</b>	S/S 430	<b>SS8L</b>
	Light Almond	<b>NP8LA</b>	<b>NPJ8LA</b>	<b>NPJJ8LA</b>	Steel, Almond	<b>SP8AL*</b>
	Office White	<b>NP8OW</b>	<b>NPJ8OW</b>	-	Steel, Gray	<b>SP8G*</b>
	Orange	<b>NP8OR</b>	-	-		
	Red	<b>NP8R</b>	<b>NPJ8R</b>	-		
	White	<b>NP8W</b>	<b>NPJ8W</b>	<b>NPJJ8W</b>		
	 2-Gang, 2-Duplex	Black	<b>NP82BK</b>	<b>NPJ82BK</b>	-	Aluminum
Brown		<b>NP82</b>	<b>NPJ82</b>	-	Brass	<b>SB82</b>
Gray		<b>NP82GY</b>	<b>NPJ82GY</b>	-	Brass Plated	<b>SBP82</b>
Ivory		<b>NP82I</b>	<b>NPJ82I</b>	-	Chrome	<b>SCH82</b>
Light Almond		<b>NP82LA</b>	<b>NPJ82LA</b>	-	S/S 302/304	<b>SS82</b>
Office White		<b>NP82OW</b>	<b>NPJ82OW</b>	-	S/S 430	<b>SS82L</b>
Orange		<b>NP82OR</b>	-	-	Steel, Almond	<b>SP82AL*</b>
Red		<b>NP82R</b>	<b>NPJ82R</b>	-	Steel, Gray	<b>SP82G*</b>
White		<b>NP82W</b>	<b>NPJ82W</b>	-		
 3-Gang, 3-Duplex	Brown	<b>NP83</b>	-	-	Aluminum	⓪
	Ivory	<b>NP83I</b>	-	-	Brass	⓪
	White	<b>NP83W</b>	-	-	Brass Plated	⓪
					Chrome	⓪
					S/S 302/304	<b>SS83</b>
					S/S 430	-
					Steel, Almond	<b>SP83AL*</b>
 4-Gang, 4-Duplex	Brown	<b>NP84</b>	-	-	Aluminum	⓪
	Ivory	<b>NP84I</b>	-	-	Brass	⓪
	White	<b>NP84W</b>	-	-	Brass Plated	⓪
					Chrome	⓪
					S/S 302/304	<b>SS84</b>
					S/S 430	-
 2-Gang, 1-Duplex	-	-	-	-	Brass	-
	-	-	-	-	Brass Plated	-
	-	-	-	-	Chrome	-
	-	-	-	-	S/S 302/304	<b>SS748</b>
	-	-	-	-	S/S 430	-

## Single 15/20A Straight Blade or 15A Twist-Lock® Receptacle Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Nylon Jumbo	Material	Metal Catalog Number
 1-Gang, 1-Single 1.40 in. (35.6) Dia. Hole	Black	<b>NP7BK</b>	<b>NPJ7BK</b>	-	Aluminum	<b>SA7</b>
	Brown	<b>NP7</b>	<b>NPJ7</b>	-	Brass	<b>SB7</b>
	Gray	<b>NP7GY</b>	<b>NPJ7GY</b>	-	Brass Plated	<b>SBP7</b>
	Ivory	<b>NP7I</b>	<b>NPJ7I</b>	-	Chrome	<b>SCH7</b>
	Light Almond	<b>NP7LA</b>	<b>NPJ7LA</b>	-	S/S 302/304	<b>SS7</b>
	Office White	<b>NP7OW</b>	<b>NPJ7OW</b>	-	S/S 430	<b>SS7L</b>
	Red	<b>NP7R</b>	<b>NPJ7R</b>	-	Steel, Almond	<b>SP7AL*</b>
	White	<b>NP7W</b>	<b>NPJ7W</b>	-	Steel, Gray	<b>SP7G*</b>
 2-Gang, 1-Single 1.40 in. (35.6) Dia. Hole	-	-	-	-	Aluminum	-
	-	-	-	-	Brass	-
	-	-	-	-	Brass Plated	-
	-	-	-	-	Chrome	-
	-	-	-	-	S/S 302/304	<b>SS747</b>
				S/S 430	-	
 2-Gang, 2-Single 1.40 in. (35.6) Dia. Hole	-	-	-	-	Aluminum	⓪
	-	-	-	-	Brass	⓪
	-	-	-	-	Brass Plated	⓪
	-	-	-	-	Chrome	⓪
	-	-	-	-	S/S 302/304	<b>SS72</b>
	-	-	-	-	S/S 430	-

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.





⓪ Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

\*Powder coat paint finish.







Dimensions in Inches (mm)



## Single 20/30A Twist-Lock® Receptacle Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
 1-Gang, 1-Single 1.60 in. (40.6) Dia. Hole	Black	<b>NP720BK</b>	-	Aluminum	<b>SA720</b>
	Brown	<b>NP720</b>	-	Brass	<b>SB720</b>
	Gray	<b>NP720GY</b>	-	Brass Plated	①
	Ivory	<b>NP720I</b>	-	Chrome	①
	Office White	<b>NP720OW</b>	-	S/S 302/304	<b>SS720</b>
	Red	<b>NP720R</b>	-	S/S 430	-
	White	<b>NP720W</b>	-	-	-
 1-Gang, 1-Single 1.74 in. (44.2) Dia. Hole	-	-	-	Aluminum	-
	-	-	-	Brass	-
	-	-	-	Brass Plated	-
	-	-	-	Chrome	-
	-	-	-	S/S 302/304	<b>SS725</b>
 2-Gang, 1-Single 1.60 in. (40.6) Dia. Hole	-	-	-	Aluminum	-
	-	-	-	Brass	-
	-	-	-	Brass Plated	-
	-	-	-	Chrome	-
	-	-	-	S/S 302/304	<b>SS749</b>
 3-Gang, 2-Single 1.60 in. (40.6) Dia. Hole	-	-	-	Aluminum	①
	-	-	-	Brass	①
	-	-	-	Brass Plated	①
	-	-	-	Chrome	①
	-	-	-	S/S 302/304	<b>SS320</b>

## Single Receptacle Wallplates





Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
 1-Gang, 1-Single 1.97 in. (50.0) Dia. Hole	-	-	-	Aluminum	-
	-	-	-	Brass	-
	-	-	-	Chrome	-
	-	-	-	S/S 302/304	<b>SS737</b>
	-	-	-	S/S 430	-
 1-Gang, 1-Single 2.16 in. (54.9) Dia. Hole	Black	<b>NP724BK</b>	<b>NPJ724BK</b>	Aluminum	<b>SA723</b>
	Brown	<b>NP724</b>	<b>NPJ724</b>	Brass	①
	Gray	<b>NP724GY</b>	<b>NPJ724GY</b>	Brass Plated	①
	Ivory	<b>NP724I</b>	<b>NPJ724I</b>	Chrome	<b>SCH723</b>
	White	<b>NP724W</b>	<b>NPJ724W</b>	S/S 302/304	<b>SS723</b>
				S/S 430	<b>SS723L</b>
 2-Gang, 1-Single 2.16 in. (54.9) Dia. Hole	-	-	-	Aluminum	-
	-	-	-	Brass	-
	-	-	-	Chrome	<b>SCH702</b>
	-	-	-	S/S 302/304	<b>SS702</b>
	-	-	-	S/S 430	-
 2-Gang, 1-Single 2.16 in. (54.9) Dia. Hole	Black	<b>NP703BK</b>	<b>NPJ703BK</b>	Aluminum	-
	Brown	<b>NP703</b>	<b>NPJ703</b>	Brass	-
	Gray	<b>NP703GY</b>	<b>NPJ703GY</b>	Brass Plated	-
	Ivory	<b>NP703I</b>	<b>NPJ703I</b>	Chrome	-
	White	<b>NP703W</b>	<b>NPJ703W</b>	S/S 302/304	<b>SS703</b>
				S/S 430	<b>SS703L</b>
 2-Gang, 1-Single 2.48 in. (63.0) Dia. Hole	-	-	-	Aluminum	-
	-	-	-	Brass	-
	-	-	-	Chrome	-
	-	-	-	S/S 302/304	<b>SS701</b>
	-	-	-	S/S 430	-
 2-Gang, 1-Single 2.66 in. (67.6) Dia. Hole	-	-	-	Aluminum	-
	-	-	-	Brass	-
	-	-	-	Chrome	-
	-	-	-	S/S 302/304	<b>SS716</b>
	-	-	-	S/S 430	-

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.





① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

Dimensions in Inches (mm)

## Blank Wallplates, Box Mount

Description	Color	Nylon Standard	Nylon Mid-Size	Nylon Jumbo	Material	Metal Catalog Number
 1-Gang, 1-Blank, Box Mount	Almond	<b>NP13AL</b>	<b>NPJ13AL</b>	-	Aluminum	<b>SA13A</b>
	Black	<b>NP13BK</b>	<b>NPJ13BK</b>	-	Brass	<b>SB13</b>
	Brown	<b>NP13</b>	<b>NPJ13</b>	-	Brass Plated	<b>SBP13</b>
	Gray	<b>NP13GY</b>	<b>NPJ13GY</b>	-	Chrome	<b>SCH13</b>
	Ivory	<b>NP13I</b>	<b>NPJ13I</b>	<b>NPJJ13I</b>	S/S 302/304	<b>SS13</b>
	Light Almond	<b>NP13LA</b>	<b>NPJ13LA</b>	<b>NPJJ13LA</b>	S/S 430	<b>SS13L</b>
	Office White	<b>NP13OW</b>	<b>NPJ13OW</b>	-	Steel, Almond	<b>SP14BAL*</b>
	White	<b>NP13W</b>	<b>NPJ13W</b>	<b>NPJJ13W</b>	Steel, Gray	<b>SP14BG*</b>
 2-Gang, 2-Blank, Box Mount	Almond	<b>NP23AL</b>	<b>NPJ23AL</b>	-	Aluminum	<b>SA23</b>
	Black	<b>NP23BK</b>	-	-	Brass	<b>SB23</b>
	Brown	<b>NP23</b>	<b>NPJ23</b>	-	Brass Plated	⓪
	Gray	<b>NP23GY</b>	-	-	Chrome	<b>SCH23</b>
	Ivory	<b>NP23I</b>	<b>NPJ23I</b>	-	S/S 302/304	<b>SS23</b>
	Light Almond	<b>NP23LA</b>	<b>NPJ23LA</b>	-	S/S 430	<b>SS23L</b>
	White	<b>NP23W</b>	<b>NPJ23W</b>	-	Steel, Almond	<b>SP24BAL*</b>
 3-Gang, 3-Blank, Box Mount	Brown	<b>NP33</b>	-	-	Aluminum	⓪
	Ivory	<b>NP33I</b>	-	-	Brass	⓪
	White	<b>NP33W</b>	-	-	Brass Plated	⓪
					Chrome	⓪
					S/S 302/304	<b>SS33</b>
					S/S 430	-
 4-Gang, 4-Blank, Box Mount	Brown	<b>NP43</b>	-	-	Aluminum	⓪
	Ivory	<b>NP43I</b>	-	-	Brass	⓪
	White	<b>NP43W</b>	-	-	Brass Plated	⓪
					Chrome	⓪
					S/S 302/304	<b>SS43</b>
				S/S 430	-	

## Blank Wallplates, Strap Mount

 1-Gang, 1-Blank, Strap Mount	Black	<b>NP14BK</b>	-	-	Aluminum	⓪
	Brown	<b>NP14</b>	-	-	Brass	<b>SB14</b>
	Gray	<b>NP14GY</b>	-	-	Brass Plated	⓪
	Ivory	<b>NP14I</b>	-	-	Chrome	⓪
	Office White	<b>NP14OW</b>	-	-	S/S 302/304	<b>SS14</b>
	Red	<b>NP14R</b>	-	-	S/S 430	<b>SS14L</b>
	White	<b>NP14W</b>	-	-	Steel, Almond	<b>SP14AL*</b>
 2-Gang, 2-Blank, Strap Mount	Black	<b>NP24BK</b>	-	-	Aluminum	⓪
	Brown	<b>NP24</b>	-	-	Brass	⓪
	Gray	<b>NP24GY</b>	-	-	Brass Plated	⓪
	Ivory	<b>NP24I</b>	-	-	Chrome	⓪
	Office White	<b>NP24OW</b>	-	-	S/S 302/304	<b>SS24</b>
	Red	<b>NP24R</b>	-	-	S/S 430	<b>SS24L</b>
 3-Gang, 3-Blank, Strap Mount	Brown	<b>NP34</b>	-	-	Aluminum	⓪
	Ivory	<b>NP34I</b>	-	-	Brass	⓪
	White	<b>NP34W</b>	-	-	Brass Plated	⓪
					Chrome	⓪
					S/S 302/304	<b>SS34</b>
 4-Gang, 4-Blank, Strap Mount	Brown	<b>NP44</b>	-	-	Aluminum	⓪
	Ivory	<b>NP44I</b>	-	-	Brass	⓪
	White	<b>NP44W</b>	-	-	Brass Plated	⓪
					Chrome	⓪
				S/S 302/304	<b>SS44</b>	
				S/S 430	-	




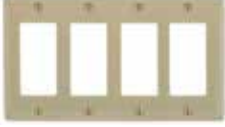


Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

⓪ Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

\*Powder coat paint finish.

Dimensions in Inches (mm)

## GFCI, Surge Receptacles and Style Line® Device Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Nylon Jumbo	Material	Metal Catalog Number	
 1-Gang, 1-Decorator	Almond	<b>NP26AL</b>	<b>NPJ26AL</b>	-	Aluminum	①	
	Black	<b>NP26BK</b>	<b>NPJ26BK</b>	-	Brass	<b>SB26</b>	
	Blue	-	<b>NPJ26BL</b>	-	Brass Plated	<b>SBP26</b>	
	Brown	<b>NP26</b>	<b>NPJ26</b>	-	Chrome	<b>SCH26</b>	
	Gray	<b>NP26GY</b>	<b>NPJ26GY</b>	-	S/S 302/304	<b>SS26</b>	
	Ivory	<b>NP26I</b>	<b>NPJ26I</b>	<b>NPJJ26I</b>	S/S 430	<b>SS26L</b>	
	Light Almond	<b>NP26LA</b>	<b>NPJ26LA</b>	<b>NPJJ26LA</b>	Steel, Almond	<b>PHPS1AL*</b>	
	Office White	<b>NP26OW</b>	<b>NPJ26OW</b>	-	Steel, Gray	<b>PHPS1G*</b>	
	Red	<b>NP26R</b>	<b>NPJ26R</b>	-			
	White	<b>NP26W</b>	<b>NPJ26W</b>	<b>NPJJ26W</b>			
	 2-Gang, 2-Decorator	Almond	<b>NP262AL</b>	<b>NPJ262AL</b>	-	Aluminum	①
Black		<b>NP262BK</b>	<b>NPJ262BK</b>	-	Brass	<b>SB262</b>	
Brown		<b>NP262</b>	<b>NPJ262</b>	-	Brass Plated	<b>SBP262</b>	
Gray		<b>NP262GY</b>	<b>NPJ262GY</b>	-	Chrome	<b>SCH262</b>	
Ivory		<b>NP262I</b>	<b>NPJ262I</b>	-	S/S 302/304	<b>SS262</b>	
Light Almond		<b>NP262LA</b>	<b>NPJ262LA</b>	-	S/S 430	<b>SS262L</b>	
Office White		<b>NP262OW</b>	<b>NPJ262OW</b>	-	Steel, Almond	<b>PHPS2AL*</b>	
Red		<b>NP262R</b>	<b>NPJ262R</b>	-	Steel, Gray	<b>PHPS2G*</b>	
White		<b>NP262W</b>	<b>NPJ262W</b>	-			
 3-Gang, 3-Decorator		Almond	<b>NP263AL</b>	<b>NPJ263AL</b>	-	Aluminum	①
		Black	<b>NP263BK</b>	<b>NPJ263BK</b>	-	Brass	①
	Brown	<b>NP263</b>	<b>NPJ263</b>	-	Brass Plated	<b>SBP263</b>	
	Gray	<b>NP263GY</b>	<b>NPJ263GY</b>	-	Chrome	①	
	Ivory	<b>NP263I</b>	<b>NPJ263I</b>	-	S/S 302/304	<b>SS263</b>	
	Light Almond	<b>NP263LA</b>	<b>NPJ263LA</b>	-	S/S 430	-	
	Office White	<b>NP263OW</b>	<b>NPJ263OW</b>	-	Steel, Almond	<b>PHPS3AL*</b>	
	Red	<b>NP263R</b>	<b>NPJ263R</b>	-			
	White	<b>NP263W</b>	<b>NPJ263W</b>	-			
	 4-Gang, 4-Decorator	Almond	<b>NP264AL</b>	<b>NPJ264AL</b>	-	Aluminum	①
		Black	<b>NP264BK</b>	<b>NPJ264BK</b>	-	Brass	①
Brown		<b>NP264</b>	<b>NPJ264</b>	-	Brass Plated	①	
Gray		<b>NP264GY</b>	<b>NPJ264GY</b>	-	Chrome	①	
Ivory		<b>NP264I</b>	<b>NPJ264I</b>	-	S/S 302/304	<b>SS264</b>	
Light Almond		<b>NP264LA</b>	<b>NPJ264LA</b>	-	S/S 430	-	
Office White		<b>NP264OW</b>	<b>NPJ264OW</b>	-	Steel, Almond	<b>PHPS4AL*</b>	
White		<b>NP264W</b>	<b>NPJ264W</b>	-			
 5-Gang, 5-Decorator		Black	<b>NP265BK</b>	-	-	Aluminum	①
		Brown	<b>NP265</b>	-	-	Brass	①
		Gray	<b>NP265GY</b>	-	-	Brass Plated	①
	Ivory	<b>NP265I</b>	-	-	Chrome	①	
	Light Almond	<b>NP265LA</b>	-	-	S/S 302/304	<b>SS265</b>	
	White	<b>NP265W</b>	-	-	S/S 430	-	
					Steel, Almond	<b>PHPS5AL*</b>	
 6-Gang, 6-Decorator	Black	<b>NP266BK</b>	-	-	Aluminum	①	
	Brown	<b>NP266</b>	-	-	Brass	①	
	Gray	<b>NP266GY</b>	-	-	Brass Plated	①	
	Ivory	<b>NP266I</b>	-	-	Chrome	①	
	Light Almond	<b>NP266LA</b>	-	-	S/S 302/304	<b>SS266</b>	
	White	<b>NP266W</b>	-	-	S/S 430	-	
					Steel, Almond	<b>PHPS6AL*</b>	







Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.




\*Powder coat paint finish.

Dimensions in Inches (mm)

## 347 Volt Toggle Wallplates with 2.25" (57.2) Spacing Between Gangs, Stamped "347V"

Description	Color	Nylon Catalog Number	Material	Metal Catalog Number
1-Gang, 1-Toggle 2.25 in. (57.2) Spacing 	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS1C</b> -
2-Gang, 2-Toggle 2.25 in. (57.2) Spacing 	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS2C</b> -
3-Gang, 3-Toggle 2.25 in. (57.2) Spacing 	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS3C</b> -
4-Gang, 4-Toggle 2.25 in. (57.2) Spacing 	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS4C</b> -
5-Gang, 5-Toggle 2.25 in. (57.2) Spacing 	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS5C</b> -
6-Gang, 6-Toggle 2.25 in. (57.2) Spacing 	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS6C</b> -









## 347 Volt Decorator Wallplates

Description	Color	Nylon Catalog Number	Material	Metal Catalog Number
1-Gang, 1-Decorator 	Black Gray Ivory White	<b>HPS1347BK</b> <b>HPS1347GY</b> <b>HPS1347I</b> <b>HPS1347W</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
2-Gang, 2-Decorator 	Black Gray Ivory White	<b>HPS2347BK</b> <b>HPS2347GY</b> <b>HPS2347I</b> <b>HPS2347W</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
3-Gang, 3-Decorator 	Ivory White	<b>HPS3347I</b> <b>HPS3347W</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

Dimensions in Inches (mm)

## Combination Wallplates, 2-Gang

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
 2-Gang, 1-Toggle, 1-Duplex	Almond	<b>NP18AL</b>	<b>NPJ18AL</b>	Aluminum	①
	Black	<b>NP18BK</b>	<b>NPJ18BK</b>	Brass	①
	Brown	<b>NP18</b>	<b>NPJ18</b>	Brass Plated	<b>SBP18</b>
	Gray	<b>NP18GY</b>	<b>NPJ18GY</b>	Chrome	<b>SCH18</b>
	Ivory	<b>NP18I</b>	<b>NPJ18I</b>	S/S 302/304	<b>SS18</b>
	Light Almond	<b>NP18LA</b>	<b>NPJ18LA</b>	S/S 430	<b>SS18L</b>
	Office White	<b>NP18OW</b>	<b>NPJ18OW</b>	Steel, Almond	<b>SP18AL*</b>
	Red	<b>NP18R</b>	<b>NPJ18R</b>	Steel, Gray	<b>SP18G*</b>
	White	<b>NP18W</b>	<b>NPJ18W</b>		
	 2-Gang, 1-Duplex, 1-Decorator	Almond	<b>NP826AL</b>	<b>NPJ826AL</b>	Aluminum
Black		<b>NP826BK</b>	<b>NPJ826BK</b>	Brass	<b>SB826</b>
Brown		<b>NP826</b>	<b>NPJ826</b>	Brass Plated	①
Gray		<b>NP826GY</b>	<b>NPJ826GY</b>	Chrome	①
Ivory		<b>NP826I</b>	<b>NPJ826I</b>	S/S 302/304	<b>SS826</b>
Light Almond		<b>NP826LA</b>	<b>NPJ826LA</b>	S/S 430	-
Office White		<b>NP826OW</b>	-		
White		<b>NP826W</b>	<b>NPJ826W</b>		
 2-Gang, 1-Toggle, 1-Decorator	Almond	<b>NP126AL</b>	<b>NPJ126AL</b>	Aluminum	①
	Black	<b>NP126BK</b>	<b>NPJ126BK</b>	Brass	<b>SB126</b>
	Brown	<b>NP126</b>	<b>NPJ126</b>	Brass Plated	<b>SBP126</b>
	Gray	<b>NP126GY</b>	<b>NPJ126GY</b>	Chrome	①
	Ivory	<b>NP126I</b>	<b>NPJ126I</b>	S/S 302/304	<b>SS126</b>
	Light Almond	<b>NP126LA</b>	<b>NPJ126LA</b>	S/S 430	<b>SS126L</b>
	White	<b>NP126W</b>	<b>NPJ126W</b>	Steel, Almond	<b>PJS126AL*</b>
				Steel, Gray	<b>PJS126G*</b>
 2-Gang, 1-Duplex, 1-Telephone .406 in. (10.3) Hole Strap Mount	Black	<b>NP128BK</b>	-	Aluminum	-
	Brown	<b>NP128</b>	-	Brass	-
	Gray	<b>NP128GY</b>	-	Brass Plated	-
	Ivory	<b>NP128I</b>	-	Chrome	-
	White	<b>NP128W</b>	-	S/S 302/304	-
 2-Gang, 1-Toggle, 1-Telephone .406 in. (10.3) Hole Strap Mount	Black	<b>NP112BK</b>	-	Aluminum	-
	Brown	<b>NP112</b>	-	Brass	-
	Gray	<b>NP112GY</b>	-	Brass Plated	-
	Ivory	<b>NP112I</b>	-	Chrome	-
	Office White	<b>NP112OW</b>	-	S/S 302/304	-
 2-Gang, 1-Decorator, 1-Telephone .406 in. (10.3) Hole Strap Mount	Black	<b>NP1226BK</b>	-	Aluminum	-
	Brown	<b>NP1226</b>	-	Brass	-
	Gray	<b>NP1226GY</b>	-	Brass Plated	-
	Ivory	<b>NP1226I</b>	-	Chrome	-
	White	<b>NP1226W</b>	-	S/S 302/304	-
 2-Gang, 1-Single Receptacle 1.40 in. (35.6) Hole, 1-Duplex	Almond	<b>NP78AL</b>	-	Aluminum	①
	Brown	<b>NP78</b>	-	Brass	①
	Gray	<b>NP78GY</b>	-	Brass Plated	①
	Ivory	<b>NP78I</b>	-	Chrome	①
	White	<b>NP78W</b>	-	S/S 302/304	<b>SS78</b>
 2-Gang, 1-Single Recept. 1.60 in. (40.6) Hole, 1-Duplex	Almond	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Ivory	-	-	Brass Plated	①
	White	-	-	Chrome	①
				S/S 302/304	<b>SS8720</b>
			S/S 430	-	

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.


①Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

\*Powder coat paint finish.

Dimensions in Inches (mm)



## Combination Wallplates, 2-Gang

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
 2-Gang, 1-Toggle, 1-Single Receptacle 1.40 in. (35.6) Hole	Black	<b>NP17BK</b>	-	Aluminum	①
	Brown	<b>NP17</b>	-	Brass	①
	Gray	<b>NP17GY</b>	-	Brass Plated	①
	Ivory	<b>NP17I</b>	-	Chrome	①
	White	<b>NP17W</b>	-	S/S 302/304	<b>SS17</b>
				S/S 430	-
 2-Gang, 1-Toggle, 1-Blank, Box Mount	Black	<b>NP113BK</b>	-	Aluminum	①
	Brown	<b>NP113</b>	<b>NPJ113</b>	Brass	①
	Gray	<b>NP113GY</b>	-	Brass Plated	①
	Ivory	<b>NP113I</b>	<b>NPJ113I</b>	Chrome	①
	Light Almond	<b>NP113LA</b>	-	S/S 302/304	<b>SS113</b>
	White	<b>NP113W</b>	-	S/S 430	-
 2-Gang, 1-Toggle, 1-Blank, Strap Mount	Black	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Gray	-	-	Brass Plated	①
	Ivory	-	-	Chrome	①
	Light Almond	-	-	S/S 302/304	<b>SS114</b>
	White	-	-	S/S 430	-
 2-Gang, 1-Blank, 1-Duplex, Box Mount	Black	<b>NP138BK</b>	-	Aluminum	①
	Brown	<b>NP138</b>	<b>NPJ138</b>	Brass	①
	Gray	<b>NP138GY</b>	-	Brass Plated	①
	Ivory	<b>NP138I</b>	<b>NPJ138I</b>	Chrome	①
	Light Almond	<b>NP138LA</b>	-	S/S 302/304	<b>SS138</b>
	White	<b>NP138W</b>	<b>NPJ138W</b>	S/S 430	-
 2-Gang, 1-Blank, 1-Duplex, Strap Mount	Black	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Gray	-	-	Brass Plated	①
	Ivory	-	-	Chrome	①
	Light Almond	-	-	S/S 302/304	<b>SS148</b>
	White	-	-	S/S 430	-
 2-Gang, 1-Blank, 1-Decorator, Box Mount	Black	<b>NP1326BK</b>	<b>NPJ1326BK</b>	Aluminum	①
	Brown	<b>NP1326</b>	<b>NPJ1326</b>	Brass	①
	Gray	<b>NP1326GY</b>	<b>NPJ1326GY</b>	Brass Plated	①
	Ivory	<b>NP1326I</b>	<b>NPJ1326I</b>	Chrome	①
	Light Almond	<b>NP1326LA</b>	<b>NPJ1326LA</b>	S/S 302/304	<b>SS1426*</b>
	White	<b>NP1326W</b>	<b>NPJ1326W</b>	S/S 430	-
 2-Gang, 1-Telephone, .406 in. (10.3) Hole, 1-Blank, Strap Mount	Black	<b>NP1214BK</b>	-	Aluminum	-
	Brown	<b>NP1214</b>	-	Brass	-
	Gray	<b>NP1214GY</b>	-	Brass Plated	-
	Ivory	<b>NP1214I</b>	-	Chrome	-
	White	<b>NP1214W</b>	-	S/S 302/304	-
				S/S 430	-
 2-Gang, 1-Single Receptacle 1.40 in. (35.6) Hole 1-Blank, Strap Mount	Black	<b>NP147BK</b>	-	Aluminum	①
	Brown	<b>NP147</b>	-	Brass	①
	Gray	<b>NP147GY</b>	-	Brass Plated	①
	Ivory	<b>NP147I</b>	-	Chrome	①
	White	<b>NP147W</b>	-	S/S 302/304	①
				S/S 430	-


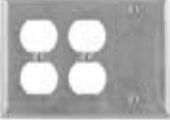
Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

\*Strap Mount.

Dimensions in Inches (mm)

## Combination Wallplates, 3-Gang

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
3-Gang, 2-Toggle, 1-Duplex 	Brown	<b>NP28</b>	<b>NPJ28</b>	Aluminum	①
	Gray	<b>NP28GY</b>	-	Brass	①
	Ivory	<b>NP28I</b>	<b>NPJ28I</b>	Brass Plated	<b>SBP28</b>
	Light Almond	<b>NP28LA</b>	<b>NPJ28LA</b>	Chrome	①
	White	<b>NP28W</b>	<b>NPJ28W</b>	S/S 302/304	<b>SS28</b>
				S/S 430	-
				Steel, Almond	<b>SP28AL*</b>
				Steel, Gray	<b>SP28G*</b>
3-Gang, 1-Toggle, 2-Duplex 	Black	<b>NP182BK</b>	-	Aluminum	①
	Brown	<b>NP182</b>	-	Brass	①
	Gray	<b>NP182GY</b>	-	Brass Plated	①
	Ivory	<b>NP182I</b>	-	Chrome	①
	White	<b>NP182W</b>	-	S/S 302/304	<b>SS182</b>
				S/S 430	-
3-Gang, 2-Toggle, 1-Decorator 	Black	<b>NP226BK</b>	<b>NPJ226BK</b>	Aluminum	①
	Brown	<b>NP226</b>	<b>NPJ226</b>	Brass	①
	Gray	<b>NP226GY</b>	<b>NPJ226GY</b>	Brass Plated	①
	Ivory	<b>NP226I</b>	<b>NPJ226I</b>	Chrome	①
	Light Almond	<b>NP226LA</b>	<b>NPJ226LA</b>	S/S 302/304	<b>SS226</b>
				S/S 430	-
				Steel, Gray	<b>PJS226G*</b>
3-Gang, 1-Toggle, 2-Decorator 	Black	<b>NP1262BK</b>	-	Aluminum	①
	Brown	<b>NP1262</b>	-	Brass	①
	Gray	<b>NP1262GY</b>	-	Brass Plated	①
	Ivory	<b>NP1262I</b>	-	Chrome	①
	Light Almond	<b>NP1262LA</b>	-	S/S 302/304	①
				S/S 430	-
3-Gang, 2-Duplex, 1-Blank 	Black	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Gray	-	-	Brass Plated	①
	Ivory	-	-	Chrome	①
	Light Almond	-	-	S/S 302/304	<b>SS211</b>
				S/S 430	-
3-Gang, 1-Duplex, 1-Blank, 1-Duplex 	Black	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Gray	-	-	Brass Plated	①
	Ivory	-	-	Chrome	①
	Light Almond	-	-	S/S 302/304	<b>SS8147</b>
				S/S 430	-
3-Gang, 2-Toggle, 1-Blank 	Black	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Gray	-	-	Brass Plated	①
	Ivory	-	-	Chrome	①
	Light Almond	-	-	S/S 302/304	<b>SS213</b>
				S/S 430	-





Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

\*Powder coat paint finish.

Dimensions in Inches (mm)

## Combination Plates, 4- and 5-Gang

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
 4-Gang, 3-Toggle, 1-Duplex	Brown	<b>NP38</b>	-	Aluminum	①
	Ivory	<b>NP38I</b>	-	Brass	①
	Light Almond	<b>NP38LA</b>	-	Brass Plated	①
	White	<b>NP38W</b>	-	Chrome	①
				S/S 302/304	<b>SS38</b>
				S/S 430	-
 4-Gang, 3-Toggle, 1-Decorator	Black	<b>NP326BK</b>	-	Aluminum	①
	Brown	<b>NP326</b>	-	Brass	①
	Gray	<b>NP326GY</b>	-	Brass Plated	①
	Ivory	<b>NP326I</b>	-	Chrome	①
	Light Almond	<b>NP326LA</b>	-	S/S 302/304	<b>SS326</b>
	White	<b>NP326W</b>	-	S/S 430	-
 4-Gang, 2-Toggle, 2-Decorator	Black	<b>NP2262BK</b>	-	Aluminum	①
	Brown	<b>NP2262</b>	-	Brass	①
	Gray	<b>NP2262GY</b>	-	Brass Plated	①
	Ivory	<b>NP2262I</b>	-	Chrome	①
	Light Almond	<b>NP2262LA</b>	-	S/S 302/304	①
	White	<b>NP2262W</b>	-	S/S 430	-
 5-Gang, 4-Toggle, 1-Duplex	Brown	<b>NP48</b>	-	Aluminum	①
	Ivory	<b>NP48I</b>	-	Brass	①
	White	<b>NP48W</b>	-	Brass Plated	①
				Chrome	①
				S/S 302/304	①
				S/S 430	-

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

## Specifications

### Listings

Non-Metallic Plates	UL Standard 514D.
Metallic Plates	UL Standard 514D.
Certification	UL Files #E31999,E92074. CSA Standard C22.2 No. 42.1. CSA File 1733174.

Product	Thickness	Mounting Screw(s)	Appearance
Nylon Plate	.06 in. (1.5).	Steel (painted slotted screw head).	Smooth gloss finish.
302/304 Stainless Steel Plate (18% Chromium, 8% Nickel)	.035 in. (0.9) nominal.	302/304 stainless steel (18% chromium, 8% nickel). Slotted screw head.	Horizontal brushed finish.
430 Stainless Steel Plate (17% Chromium, less than 0.5% Nickel)	.035 in. (0.9) nominal.	302/304 stainless steel (17% chromium, less than 0.5% nickel). Slotted screw head.	Horizontal brushed finish.
Brass Plate (70% Copper, 30% Zinc)	.04 in. (1.0).	Brass (70% Copper, 30% Zinc). Slotted screw head.	Horizontal brushed finish.
Aluminum Plate	.05 in. (1.3).	302/304 stainless steel (17% chromium, less than 0.5% nickel). Slotted screw head.	Horizontal brushed finish.
Brass Plated Steel Plate	.03 in. (0.8) nominal.	Brass slotted head.	Polished, coated to inhibit oxidation.
Chrome Plated Steel Plate	.03 in. (0.8) nominal.	302/304 stainless steel (17% chromium, less than 0.5% nickel). Slotted screw head.	Polished, coated to inhibit oxidation.
Steel Painted Plate	.03 in. (0.8) nominal.	Steel (painted slotted screw head).	Powder coat paint.

Note: All nylon plates include captive mount screws.

Nylon plates have an operating temperature of -40°C to 85°C.

Dimensions in Inches (mm)

## Telephone and Coaxial Outlet Plates

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
 1-Gang, 1-Tel Nylon .406 in. (10.3) Hole, Metal .640 in. (16.3) Hole, Box Mount	Almond	<b>NP11AL</b>	<b>NPJ11AL</b>	Aluminum	①
	Black	<b>NP11BK</b>	-	Brass	①
	Brown	<b>NP11</b>	<b>NPJ11</b>	Brass Plated	①
	Gray	<b>NP11GY</b>	-	Chrome	①
	Ivory	<b>NP11I</b>	<b>NPJ11I</b>	S/S 302/304	<b>SS11*</b>
	Light Almond	<b>NP11LA</b>	<b>NPJ11LA</b>	S/S 430	<b>SS11L*</b>
	Red	<b>NP11R</b>	-		
	White	<b>NP11W</b>	<b>NPJ11W</b>		
 1-Gang, 1-Tel Nylon .406 in. (10.3) Hole, Metal .640 in. (16.3) Hole, Strap Mount	Almond	<b>NP12AL</b>	-	Aluminum	①
	Black	<b>NP12BK</b>	-	Brass	<b>SB12*</b>
	Brown	<b>NP12</b>	-	Brass Plated	<b>SBP12*</b>
	Gray	<b>NP12GY</b>	-	Chrome	<b>SCH12*</b>
	Ivory	<b>NP12I</b>	-	S/S 302/304	<b>SS12*</b>
	White	<b>NP12W</b>	-	S/S 430	<b>SS12L*</b>
 1-Gang, 1-Tel .625 in. (15.9) Hole, Box Mount	Almond	<b>NP737AL</b>	-	Aluminum	-
	Brown	<b>NP737</b>	-	Brass	-
	Ivory	<b>NP737I</b>	-	Brass Plated	-
	White	<b>NP737W</b>	-	Chrome	-
				S/S 302/304	-
 1-Gang, 1-Tel .625 in. (15.9) Hole, Strap Mount	Brown	<b>NP730</b>	-	Aluminum	-
	Ivory	<b>NP730I</b>	-	Brass	-
	White	<b>NP730W</b>	-	Brass Plated	-
				Chrome	-
				S/S 302/304	-
 1-Gang, 1-Tel .380 in. (9.7) Hole, Box Mount or Strap Mount	Almond	-	-	Aluminum	①
	Brown	-	-	Brass	①
	Ivory	-	-	Brass Plated	①
	White	-	-	Chrome	①
				S/S 302/304	<b>SS739</b>
 2-Gang, 2-Tel Nylon .406 in. (10.3) Hole, Metal .640 in. (16.3) Hole, Box Mount	Black	<b>NP21BK</b>	-	Aluminum	①
	Brown	<b>NP21</b>	-	Brass	①
	Gray	<b>NP21GY</b>	-	Brass Plated	①
	Ivory	<b>NP21I</b>	-	Chrome	①
	White	<b>NP21W</b>	-	S/S 302/304, Strap Mount	<b>SS22*</b>
				S/S 430	-
 2-Gang, 1-Tel .640 in. (16.3) Hole, Box Mount	Almond	-	-	Aluminum	-
	Brown	-	-	Brass	-
	Ivory	-	-	Brass Plated	-
	White	-	-	Chrome	-
				S/S 302/304	<b>SS741*</b>
			S/S 430	-	







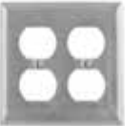




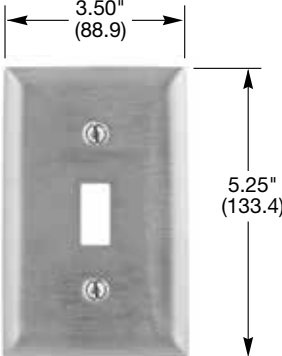

Note: All nylon wallplates feature pre-inserted captive screws for faster assembly, up to 6-gang.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

\*.50" (12.7) I.D. nylon bushing provided.

Dimensions in Inches (mm)

## Jumbo, Smooth, Stainless Steel Type 302/304 Wallplates

Configuration	Catalog Number	Configuration	Catalog Number
1-Gang, 1-Toggle 	<b>SSJ1</b>	1-Gang, 1-Single Receptacle for 2.09–2.13 in. (53.1–54.1) Dia. Face 	<b>SSJ723</b>
2-Gang, 2-Toggle 	<b>SSJ2</b>	1-Gang, 1-Blank, Box Mount 	<b>SSJ13</b>
1-Gang, 1-Duplex 	<b>SSJ8</b>	1-Gang, 1-Telephone Opening, .640 in. (16.3) Box Mount 	<b>SSJ11*</b>
2-Gang, 2-Duplex 	<b>SSJ82</b>	2-Gang, 1-Toggle, 1-Duplex 	<b>SSJ18</b>
1-Gang, 1-Decorator 	<b>SSJ26</b>	2-Gang, 1-Toggle, 1-Decorator 	<b>SSJ126</b>
2-Gang, 2-Decorator 	<b>SSJ262</b>		
1-Gang, 1-Single Receptacle for 1.36–1.39 in. (34.5–35.3) Dia. Face 	<b>SSJ7</b>		




Note: \*.50 in. (12.7) I.D. nylon bushing provided.  
Specifications are subject to change without notice.

**Jumbo Wallplate**

Oversize dimensions (see page N-30 for more details).  
1-Gang, 5.25 in. x 3.50 in. (133.4 x 88.9).  
2-Gang, 5.25 in. x 5.31 in. (133.4 x 134.9).



## Pre-Marked "EMERGENCY" Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
1-Gang, 1-Duplex, paint filled white lettering 	Red	-	<b>NPJ8RMEV</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS8MEV</b> -
1-Gang, 1-Toggle, paint filled white lettering 	Red	-	<b>NPJ1RME</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS1ME</b> -
2-Gang, 2 Duplex, paint filled red lettering 	-	-	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - <b>SS82MEV</b> -

Note: See page N-30 for mid-size plate dimensions.  
All lettering .25 in. (6.3) high.



## Stainless Steel Barrel Key Switch Wallplates

Description	1-Gang, with on/off markings	1-Gang, with position markings	2-Gang, with on/off markings	2-Gang, with position markings
Stainless steel, 302/304, smooth.	<b>SS12RKL</b>	<b>SS12RKLM</b>	<b>SS22RKL</b>	<b>SS22RKLM</b>
				

Note: See page D-6 for barrel key switch selection.

## Single Count Screws and Accessories

Description	Catalog Number
Stainless steel screw, standard slot, .38 in. (9.7) long.	<b>HBL7341SS</b>
Security spanner head screws, 6-32 thread, 100 count.	<b>HBL7342RKL</b>
Screwdriver with spanner head security bit.	<b>HBL7372RKL</b>







**HBL7342RKL**






**HBL7372RKL**

Dimensions in Inches (mm)


## Pre-Marked "ISOLATED GROUND" Wallplates

Description	Color	Nylon Standard	Nylon No Marking	Material	Metal Catalog Number
1-Gang, 1-Duplex, paint filled black 	Orange	<b>NP80IG</b>	<b>NP8OR</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
1-Gang, 1-Decorator, paint filled black 	Orange	<b>NP260IG</b>	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
1-Gang, 1-Single Receptacle 1.40 in. (35.6) Hole for 1.36–1.39 in. (34.5–35.3) Dia. face, paint filled black 	Orange	<b>NP70IG</b>	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
1-Gang, 1-Single Receptacle 1.60 in. (40.6) Hole for 20 and 30A Twist-Lock® with 1.55–1.58 in. (39.4–40.1) Dia. face, paint filled black 	Orange	<b>NP7200IG</b>	-	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -

## Pre-Marked "COMPUTER ONLY" Wallplates

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
1-Gang, 1-Duplex, paint filled black 	Orange Ivory	- -	<b>NPJ8CO</b> <b>NPJ8C</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
2-Gang, 2-Duplex, paint filled black 	Orange	-	<b>NPJ82CO</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -
1-Gang, 1-Decorator, paint filled black 	Blue Ivory	- -	<b>NPJ26CBL</b> <b>NPJ26C</b>	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	- - - - - -

## Louver Plate, 1-Gang, Box Mount

Description	Color	Nylon Standard	Nylon Mid-Size	Material	Metal Catalog Number
1-Gang, Vertical Mounted Louver 	- - - - -	- - - - -	- - - - -	Aluminum Brass Brass Plated Chrome S/S 302/304 S/S 430	① <b>SB771</b> <b>SBP771</b> ① <b>SS771</b> -

Note: \*See page N-30 for mid-size plate dimensions.

① Available as a custom wallplate, see pages N-31 to N-34. Consult custom wallplates section for additional openings and combinations.

Dimensions in Inches (mm)

## 1-Gang Security Wallplates, White

Description	Catalog Number
1-Toggle switch	<b>SWP1</b>
1-Duplex receptacle	<b>SWP8</b>
1-GFCI/Style Line® opening	<b>SWP26</b>
1-Telephone or TV opening .640 in. (16.3)	<b>SWP12</b>
1-Blank	<b>SWP13</b>



**SWP1**



**SWP8**

## 2-Gang Security Wallplates, White

Description	Catalog Number
2-Toggle switches	<b>SWP2</b>
2-Duplex receptacles	<b>SWP82</b>
1-Toggle switch, 1-Duplex receptacle	<b>SWP18</b>
2-GFCI/Style Line® openings	<b>SWP262</b>
1-Toggle switch, 1-GFCI/Style Line® opening	<b>SWP126</b>
1-Duplex receptacle, 1-Telephone or TV	<b>SWP812</b>
1-Duplex receptacle, 1-Blank	<b>SWP813</b>
2-Blank	<b>SWP23</b>



**SWP82**



**SWP18**



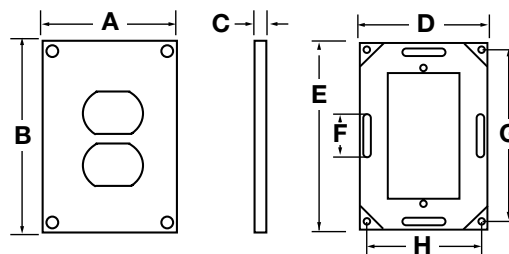
**SWP28**

## 3-Gang Security Wallplates, White

Description	Catalog Number
3-Toggle switches	<b>SWP3</b>
2-Toggle switches, 1-Duplex receptacle	<b>SWP28</b>
3-GFCI/Style Line® openings	<b>SWP263</b>

## Dimensions Inches (mm)

	A	B	C	D	E	F	G	H
1-Gang	3.77" (95.8)	5.52" (140.2)	.55" (14.0)	3.37" (85.6)	5.13" (130.3)	1.00" (25.4)	4.63" (117.6)	2.88" (73.2)
2-Gang	5.52" (140.2)	5.52" (140.2)	.55" (14.0)	5.13" (130.3)	5.13" (130.3)	1.00" (25.4)	4.63" (117.6)	4.63" (117.6)
3-Gang	7.39" (187.71)	5.52" (140.21)	.55" (14.0)	7.00" (177.8)	5.13" (130.3)	1.00" (25.4)	4.63" (117.6)	6.50" (165.1)



## Specifications

Tamper resistant wallplate 1-gang duplex receptacle shall be of the following construction:

Cover plate: One piece #14 cold rolled zinc plated steel. Plate shall have a five stage baked white polyester powder enamel finish.  
Gloss: 85%; reflectance: 93%; hardness minimum: 2H and pass 600 hour salt spray test.

Back plate: #10 cold rolled galvanized steel. Plate assembly shall use four (4) #8-32 X 1/2 inch stainless steel T-15 TORX® head screws with center pin reject. Plate must be UL listed to UL 514D and comply with the NEC®.

TORX® is a registered trademark of Textron Inc.  
NEC® is a registered trademark of the The National Electrical Code.

Dimensions in Inches (mm)

## Brass Locking Cover Plate

Description	Catalog Number
Locking cover plate for single 15 and 20A straight blade receptacles and 15A Twist-Lock® receptacles. Straight cylinder type lock. All cylinder locks keyed alike.	<b>HBL96067</b>



**HBL96067**  
Shown with receptacle  
(sold separately)



**HBL6187**  
Shown with receptacle  
and back box  
(sold separately)

## Weather Shield Plate

Description	Catalog Number
20° angle plate for duplex receptacles.	<b>HBL6187</b>

## Catalog Number of Receptacles in Groups A through E below

Group A		Group B			Group C		Group D		Group E
Boss diameter 1.36" to 1.39" (34.5 to 35.3)		Boss diameter 1.55" to 1.58" (39.4 to 40.1)			Boss diameter 1.68" to 1.72" (42.7 to 43.7)		Boss diameter 2.09" to 2.13" (53.1 to 54.1)		Boss diameter 2.28" to 2.44" (57.9 to 62.0)
<b>HBL2300HG</b>	<b>HBL5661</b>	<b>HBL23CM10</b>	<b>HBL2530</b>	<b>HBL2770</b>	<b>HBL45105</b>	<b>HBL7962</b>	<b>HBL7301A</b>		
<b>HBL23030</b>	<b>HBL6810</b>	<b>HBL2310</b>	<b>HBL26CM10</b>	<b>HBL2810</b>	<b>HBL45205</b>	<b>HBL9350</b>	<b>HBL8330A</b>		
<b>HBL4560</b>	<b>HBL7210B</b>	<b>HBL2320</b>	<b>HBL2610</b>	<b>HBL2820</b>	<b>HBL45305</b>	<b>HBL9308</b>	<b>HBL8350A</b>		
<b>HBL4710</b>	<b>HBL7250</b>	<b>HBL2330</b>	<b>HBL2620</b>	<b>HBL2830</b>	<b>HBL45905</b>	<b>HBL9315</b>	<b>HBL8430A</b>		
<b>HBL4760</b>	<b>HBL7310B</b>	<b>HBL2340</b>	<b>HBL2630</b>	<b>HBL3330</b>		<b>HBL9330</b>	<b>HBL8450A</b>		
<b>HBL5251</b>	<b>HBL7310BG</b>	<b>HBL2410</b>	<b>HBL2640</b>	<b>HBL3330G</b>		<b>HBL9360•</b>	<b>HBL8460A</b>		
<b>HBL52CM61</b>	<b>HBL7535</b>	<b>HBL2420</b>	<b>HBL2650</b>	<b>HBL3430</b>		<b>HBL9365•</b>	<b>HBL9430A</b>		
<b>HBL5261</b>	<b>HBL7582</b>	<b>HBL2430</b>	<b>HBL2710</b>	<b>HBL3430G</b>		<b>HBL9367•</b>	<b>HBL9450A</b>		
<b>HBL53CM61</b>	<b>HBL8210</b>	<b>HBL2440</b>	<b>HBL2720</b>	<b>HBL3520</b>			<b>HBL9460A</b>		
<b>HBL5361</b>	<b>HBL8310</b>	<b>HBL2450</b>	<b>HBL2730</b>	<b>HBL7410B</b>					
<b>HBL5461</b>	<b>HBL8410</b>	<b>HBL2460</b>	<b>HBL2740</b>	<b>HBL7410BG</b>					
<b>HBL5552B</b>	<b>HBL8420</b>	<b>HBL2510</b>	<b>HBL2750</b>						
		<b>HBL2520</b>	<b>HBL2760</b>						

Note: \*50A 2P 3W.

## Wallplates for Single Receptacles

Description	Group A		Group B		Group C		Group D		Group E
	Boss diameter 1.36" to 1.39" (34.5 to 35.3)		Boss diameter 1.55" to 1.58" (39.4 to 40.1)		Boss diameter 1.68" to 1.72" (42.7 to 43.7)		Boss diameter 2.09" to 2.13" (53.1 to 54.1)		Boss diameter 2.28" to 2.44" (57.9 to 62.0)
Smooth nylon, brown.	<b>NP7*</b>	-	<b>NP720*</b>	-	-	-	<b>NP724*</b>	<b>NP703*</b>	-
Cast aluminum.	<b>HBL7320</b>	-	<b>HBL7320</b>	-	<b>HBL3394</b>	-	<b>HBL9419</b>	-	-
Stainless steel, 302/304, smooth.	<b>SS7**</b>	<b>SS72</b>	<b>SS720</b>	-	<b>SS725</b>	-	<b>SS723</b>	<b>SS703</b>	<b>SS701</b>

Note: See pages N-7 and N-8 for complete plate descriptions.

\*Catalog number indicated is Brown, add with the following to designate color: "AL" (Almond), "BK" (Black), "GY" (Gray), "I" (Ivory), and "W" (white).

\*\*Catalog number indicated is Stainless Steel, replace "SS" with the following prefix to designate material: "SA" for Anodized Aluminum, "SB" for Solid Brass.

## Weatherproof Lift Covers for WDL "Closed" and WDL "Open", Wet Locations, 1-Gang

Description	Group A		Group B		Group C		Group D		50A Twist-Lock® Receptacles	30A 4W Hubbellok® Receptacles
	Boss diameter 1.36" to 1.39" (34.5 to 35.3)		Boss diameter 1.55" to 1.58" (39.4 to 40.1)		Boss diameter 1.68" to 1.72" (42.7 to 43.7)		Boss diameter 2.09" to 2.13" (53.1 to 54.1)			
Thermoplastic, with cover "open", gray.	<b>HBL7423WO</b>		<b>HBL7425WOA</b>		<b>HBL7424WO</b>		-		<b>HBL7774WO^</b>	-
Thermoplastic, with cover "open", yellow.	<b>HBL74CM23WO</b>		<b>HBL74CM25WOA</b>		<b>HBL74CM24WO</b>		-		<b>HBL77CM74WO^</b>	-
Cast aluminum, with cover "closed".	<b>HBL7420</b>		<b>HBL7420</b>		<b>HBL3393</b>		<b>HBL9420</b> <b>HBL9425•</b>		<b>HBL7770</b>	<b>HBL20405†</b> <b>HBL20446†</b>

Note: \*50A 2P 3W.

^The "CS" versions of 50A Twist-Lock® receptacles will only fit these thermoplastic plates.



†HBL20446 plate painted red for use with HBL20443 only. HBL20405 plate is for use with HBL20403 only. See page B-65 for devices.

**IP44**  
SUITABILITY

## Weatherproof Thermoplastic Cover For Flanged Inlets and Flanged Receptacles

Description	Catalog Number
For use with 15 and 20A, 2 pole, 2 wire and 2 pole, 3 wire Insulgrip® flanged inlets and flanged receptacles below.	<b>WP1</b>


Straight Blade, 2 pole, 3 wire Flanged Inlets		Flanged Receptacles	
	HBL5278C HBL5378C HBL5478C HBL5678C		HBL5279C HBL5379C HBL5479C HBL5679C


Twist-Lock®, 2 pole, 2 wire and 2 pole, 3 wire Flanged Inlets		Flanged Receptacles	
	HBL8815C HBL7524C HBL4716C HBL4586C HBL4786C		HBL8809C HBL7526C HBL4715C HBL4585C HBL4785C



## Weatherproof Thermoplastic Cover For Flanged Inlets and Flanged Receptacles

Description	Catalog Number
For use with 20 and 30A, 3, 4, and 5 wire Insulgrip flanged inlets and flanged receptacles below.	<b>WP2</b>

Twist-Lock®, 2 pole, 3 wire; 3 pole, 4 wire; 4 pole, 4 wire; 4 pole, 5 wire Flanged Inlets			
	HBL2315 HBL2325 HBL2335 HBL2345 HBL2355 HBL2415 HBL2425 HBL2435	HBL2445 HBL2455 HBL2465 HBL2515 HBL2525 HBL2535 HBL2615 HBL2625	HBL2635 HBL2645 HBL2655 HBL2715 HBL2725 HBL2735 HBL2745 HBL2755
			HBL2765 HBL2775 HBL2815 HBL2825 HBL2835 HBL3325C HBL3334C HBL7408C

Flanged Receptacles			
	HBL2316 HBL2326 HBL2336 HBL2346 HBL2356 HBL2416 HBL2426 HBL2436	HBL2446 HBL2456 HBL2466 HBL2516 HBL2526 HBL2536 HBL2616 HBL2626	HBL2636 HBL2646 HBL2656 HBL2716 HBL2726 HBL2736 HBL2746 HBL2756
			HBL2766 HBL2776 HBL2816 HBL2826 HBL2836 HBL3326C HBL3335C HBL7409C




WP1



WP2

## Weatherproof Thermoplastic Cover For Flanged Inlets 50 Amp CS Series

Description	Catalog Number
For use with 50A locking inlets with trimmed sides only.	<b>HBL7780</b>

Twist-Lock®, 2 pole, 3 wire; 3 pole, 4 wire Flanged Inlets	
	HBL3777 HBL3775 HBL7958



HBL7780





**HBL7777A**

## For Receptacles with Face Diameters of 2.28–2.44 in. (57.9–62.0)

Description	Catalog Number
Thermoplastic, 2-gang, wet and damp locations with cover “closed”, gray.	<b>HBL7777A<sup>▲</sup></b>
Thermoplastic, 2-gang, wet and damp locations with cover “closed”, yellow.	<b>HBL77CM77A<sup>▲</sup></b>
Thermoplastic, 2-gang, wet and damp locations with cover “closed”, gray.	<b>HBL7777<sup>▽</sup></b>



**HBL9420**

## For Receptacles with Face Diameters of 2.09–2.13 in. (53.1–54.1)

Description	Catalog Number
Cast aluminum, wet locations only when cover “closed” and damp locations.	<b>HBL9420</b>
Cast aluminum, no lift cover. NOT weatherproof.	<b>HBL9419</b>

## For 50A Twist-Lock<sup>®</sup> Single Receptacles

Description	Catalog Number
Thermoplastic, wet and damp locations with cover “open”, gray.	<b>HBL7774WO<sup>*</sup></b>
Thermoplastic, wet and damp locations with cover “open”, yellow.	<b>HBL77CM74WO<sup>*</sup></b>
Cast aluminum, wet locations only when cover “closed” and damp locations.	<b>HBL7770</b>
Galvanized Steel, fits 4" square or 2-gang box.	<b>HBL50SC<sup>**</sup></b>
Stainless steel, single gang, wallplate. NOT weatherproof.	<b>SS750<sup>▲</sup></b>



**HBL7774WO**

## For 30A, 4 Wire Hubbellock<sup>®</sup> Receptacles

Description	Catalog Number
Thermoplastic, wet and damp locations with cover “open”, gray.	<b>HBL7428WOG<sup>*</sup></b>
Thermoplastic, wet and damp locations with cover “open”, yellow.	<b>HBL7428WOY<sup>*</sup></b>
Thermoplastic, wet and damp locations with cover “open”, red.	<b>HBL7428WOR<sup>*</sup></b>
Cast aluminum, wet locations only when cover “closed” and damp locations, lift cover plate.	<b>HBL20405</b>
Cast aluminum, wet locations only when cover “closed” and damp locations, red finish.	<b>HBL20446</b>
Cast aluminum, no lift cover. NOT weatherproof.	<b>HBL20406</b>



**HBL7770**

Note: <sup>▲</sup>Will fit FS/FD boxes having plate mounting holes on 3.25 in. x 3.75 in. (82.6 x 95.3) centers.  
<sup>▽</sup>Will only fit old style porcelain face devices.  
<sup>\*</sup>The “CS” versions of 50A Twist-Lock<sup>®</sup> will only fit these plates.  
<sup>\*\*</sup>IP20 Suitability.

## Weatherproof Covers for Single Receptacles for Use on FS/FD Boxes

Note: All weatherproof plates are UL Listed for WET LOCATIONS WITH COVER CLOSED, for intermittent use in wet locations or use in damp locations. Those with suffix “WO” are listed for WET LOCATIONS with cover open in continuous use. All plates are gasketed and self-closing.

## Accessories

Description	Catalog Number
Sub-plate for mounting and weatherproofing flanged devices with mounting centers of 1.76", 1.94" or 2.13" such as HBL7556, HBL4716, etc. when used with a HBL7420 or HBL7425WOA type weatherproof plate.	<b>7452<sup>•</sup></b>
Adapter plate for mounting HBL7423WO, HBL7424WO, HBL7425WOA or HBL7420 plates to standard boxes.	<b>HBL7349<sup>•</sup></b>

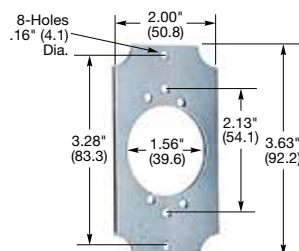
Note: <sup>•</sup>Not UL Listed.



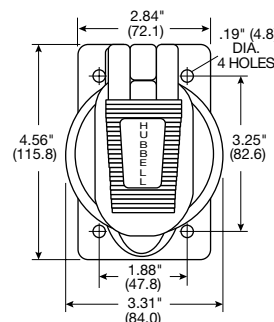
**HBL20405**



**HBL7349**



**7452**



**Typical Plate, 1-Gang**

Dimensions in Inches (mm)

**IP44**  
SUITABILITY

## For Receptacles with Face Diameters of 1.36–1.39 in. (34.5–35.3)

Description	Catalog Number
Thermoplastic, wet and damp locations with cover "open", gray.	<b>HBL7423WO</b>
Thermoplastic, wet and damp locations with cover "open", yellow.	<b>HBL74CM23WO</b>
Cast aluminum, wet location only when cover "closed" and damp locations.	<b>HBL7420</b>
Cast aluminum, no lift cover, NOT weatherproof.	<b>HBL7320*</b>



**HBL7423WO**

## For Switches and Receptacles with Face Diameters of 1.55–1.58 in. (39.4–40.1)

Description	Catalog Number
Thermoplastic, wet and damp locations with cover "open", gray.	<b>HBL7425WOA</b>
Thermoplastic, wet and damp locations with cover "open", yellow.	<b>HBL74CM25WOA</b>
Thermoplastic, wet and damp locations with cover "open", white.	<b>HBL74CM25WOAW</b>
Cast aluminum, wet and damp locations with cover "closed."	<b>HBL7420*</b>
Cast aluminum, no lift cover, NOT weatherproof.	<b>HBL7320*</b>
Thermoplastic, wet and damp locations with cover "open", gray.	<b>HBL7428WOG**</b>
Thermoplastic, wet and damp locations with cover "open", yellow.	<b>HBL7428WOY**</b>
Thermoplastic, wet and damp locations with cover "open", red.	<b>HBL7428WOR**</b>



**HBL7425WOA**

## For Receptacles with Face Diameters of 1.68–1.72 in. (42.7–43.7)

Description	Catalog Number
Thermoplastic, wet and damp locations with cover "open", gray.	<b>HBL7424WO</b>
Thermoplastic, wet and damp locations with cover "open", yellow.	<b>HBL74CM24WO</b>
Cast aluminum, wet location only when cover "closed" and damp locations.	<b>HBL3393</b>
Cast aluminum, no lift cover, NOT weatherproof.	<b>HBL3394*</b>



**HBL7420**

Note: \*Cast aluminum lift cover with fibershield for standard toggle and PresSwitch® Switches.

\*\*Features two #6-32 threaded inserts to back mount device to cover.

▲IP20 SUITABILITY.

All weatherproof lift cover plates on this page are UL Listed as "WDL Closed" for use in wet locations with cover closed and in damp locations.

## Weatherproof Covers for Single Receptacles on FS/FD Boxes

All weatherproof plates are UL Listed for WET LOCATIONS WITH COVER CLOSED for intermittent use in wet locations or use in damp locations. Those with suffix "WO" are listed for WET LOCATIONS with cover open in continuous use. All plates are gasketed and self-closing.



**HBL7320**

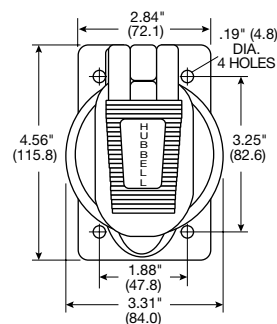
## 2017 National Electrical Code (NEC®) Requirement

### 406.9 Receptacles in Damp or Wet Locations.

(A) Damp Locations. A receptacle installed outdoors in a location protected from the weather or in other damp locations shall have an enclosure for the receptacle that is weatherproof when the receptacle is covered (attachment plug cap not inserted and receptacle covers closed). An installation suitable for wet locations shall also be considered suitable for damp locations. A receptacle shall be considered to be in a location protected from the weather where located under roofed open porches, canopies, marquees, and the like, and will not be subjected to a beating rain or water runoff. All 15 and 20A, 125 and 250V nonlocking receptacles shall be listed weather-resistant type.

(B) Wet Locations.

(1) 15 and 20 Ampere Receptacles in a Wet Location. 15 and 20 ampere, 125 and 250 volt receptacles installed in a wet location shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted. An outlet box hood installed for this purpose shall be listed, and shall be identified as "extra-duty." Other listed products, enclosures, or assemblies providing weatherproof protection that do not utilize an outlet box need not be marked "extra-duty." All 15 and 20 ampere, 125 and 250 volt nonlocking-type receptacles shall be listed weather-resistant type.



**Typical Plate, 1-Gang**



**HBL7424WO**



**HBL3393**

Dimensions in Inches (mm)

NEC® is a registered trademark of the The National Electrical Code.



**HBL1795**

## Weatherproof Plates

Description	Catalog Number
Clear bubble plate, silicone rubber for use with all general purpose AC toggle and PresSwitch® Switches. Fits both FS/FD and standard boxes.	<b>HBL1795</b>



**HBL1750**

## Weatherproof Plates

Description	Catalog Number
Gray neoprene PresSwitch® Plate. Fits FS/FD and standard boxes.	<b>HBL1750*</b>
Same as above except yellow.	<b>HBL17CM50*</b>

Note: \*Not UL Listed.



**HBL1785**

## Weatherproof Plates

Description	Catalog Number
Gray neoprene PresSwitch® Plate with 125V red pilot light. Fits only FS/FD boxes.	<b>HBL1785*</b>
Same as above except yellow.	<b>HBL17CM85*</b>

Note: \*Not UL Listed.



**HBL7420**

## Weatherproof Covers

Description	Catalog Number
Cast aluminum lift cover plate with fiber shield. For standard toggle and PresSwitch® Switches. Fits only FS/FD boxes.	<b>HBL7420</b>

## Brass Locking Covers Attachment for Switches

Description	Catalog Number
Straight keying (all locks alike) appropriate for most applications. Straight cylinder type lock, each HBL96061 ordered operates on the same key—all locks are keyed alike.	<b>HBL96061*</b>
Same as above except in dull chrome finish to match stainless steel plates.	<b>HBL96061DCH*</b>
Straight keying (individual). Straight cylinder type lock, each HBL96062 ordered operates on a different key. All locks are keyed differently and individually. This type cannot be master keyed.	<b>HBL96062*</b>

Note: \*Not UL Listed.



**HBL96061**  
shown with wallplate and switch (sold separately)

## Locking Device

Description	Catalog Number
Locking device for weatherproof covers.	<b>HBLWLC</b>



**HBLWLC**

**IP44**  
SUITABILITY

## Duplex Covers For Vertical Mounting

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Thermoplastic, gray, for FS/FD box mounting.	4.56" x 2.89" x 1.08" (115.8 x 73.4 x 27.4)		<b>HBL5221</b>
Thermoplastic, yellow, for FS/FD box mounting.	4.56" x 2.89" x 1.08" (115.8 x 73.4 x 27.4)		<b>HBL52CM21</b>
Thermoplastic, white, for FS/FD box mounting.	4.56" x 2.89" x 1.08" (115.8 x 73.4 x 27.4)		<b>HBL52CM21W</b>
Thermoplastic, gray, for device mounting.	4.56" x 2.89" x 1.08" (115.8 x 73.4 x 27.4)		<b>HBL5222</b>
Thermoplastic, yellow, for device mounting.	4.56" x 2.89" x 1.08" (115.8 x 73.4 x 27.4)		<b>HBL52CM22</b>
Die cast aluminum, gray, commercial grade, vertical position, device mount.	4.56" x 2.81" x 0.75" (115.8 x 71.4 x 19.1)		<b>WP8V</b>



**HBL5221**



**WP8V**



**HBL5206WO**



**WP8H**

## Duplex Covers For Horizontal Mounting

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Cast aluminum, for device mounting.	2.88" x 4.56" x 0.79" (73.2 x 115.8 x 20.1)		<b>HBL5205WO</b>
Cast aluminum, for FS/FD box mounting.	2.88" x 4.56" x 0.79" (73.2 x 115.8 x 20.1)		<b>HBL5206WO</b>
Die cast aluminum, gray, commercial grade, horizontal position, device mount.	2.90" x 4.60" x 0.75" (73.7 x 116.8 x 19.1)		<b>WP8H</b>

## GFCI, Surge and Style Line® Covers

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Thermoplastic, gray, for FS/FD box mounting.	4.56" x 2.84" x 1.27" (115.8 x 72.2 x 32.3)		<b>HBL5226</b>
Die cast aluminum, gray, commercial grade, vertical position, device mount.	4.56" x 2.81" x 0.75" (115.8 x 71.4 x 19.1)		<b>WP26V</b>
Die cast aluminum, gray, commercial grade, horizontal position, device mount.	2.30" x 4.75" x 0.73" (58.4 x 120.7 x 18.5)		<b>WP26H</b>



**HBL5226**



**WP26V**

## Toggle Cover

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Thermoplastic, gray, for FS/FD box mounting.	4.56" x 2.89" x 1.08" (115.8 x 73.4 x 27.4)		<b>HBL5201</b>



**HBL5201**

Note: All weatherproof plates are UL Listed for WET LOCATIONS WITH COVER CLOSED, for intermittent use in wet locations or use in damp locations. Those with Suffix "WO" are listed for WET LOCATIONS with cover open in continuous use. All plates are gasketed and self-closing.

Dimensions in Inches (mm)

## Features and Benefits

### Weatherproof Metallic While-In-Use Covers

The NEMA 3R Rated EXTRA DUTY® Metallic and Non-metallic While-in-Use Covers offer weather protection for outlets when they are in use.

- Patented keyhole mounting system allows installation in under a minute
- Pre-configured for GFCI with patented technology for alternate devices
- Lockable tab for OSHA compliance
- Sealed-in-place gasket
- Premium powder coat
- External cord retention chamber
- Each box contains three or six adapters to make a variety of configurations (8 or 55)

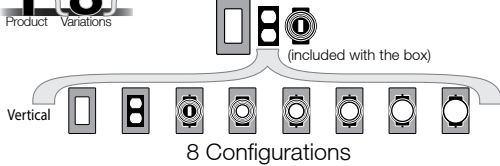


### Metallic EXTRA DUTY® While-In-Use Covers

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Heavy duty die-cast aluminum 1-gang box with gray lid for vertical mounting offers superior commercial quality 8-in-1 configurations.	6.12" X 3.37" X 3.5" (155.4 X 85.6 X 89.0)	<b>1.8</b> Product Variations	<b>WP26E</b>
Heavy duty die-cast metal 1-gang box with gray lid for horizontal mounting; 8-in-1 configurations.	4.37" X 5.12" X 3.5" 111.0 X 130.0 X 89.0)	<b>1.8</b> Product Variations	<b>WP26EH</b>
Heavy duty die-cast metal 2-gang box with gray lid for vertical mounting; 55-in-1 configurations.	6.12" X 5.12" X 3.5" (155.4 X 130.0 X 89.0)	<b>1.55</b> Product Variations	<b>WP262E</b>

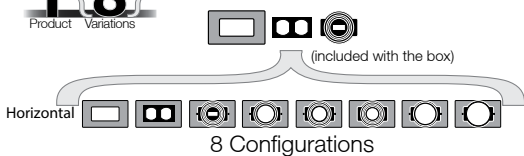
**1.8**  
Product Variations

1 Box {3 Adapters}



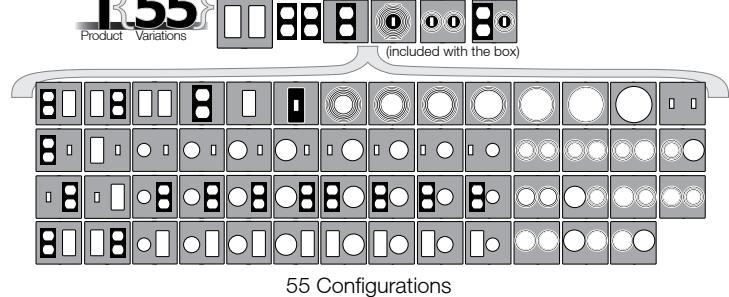
**1.8**  
Product Variations

1 Box {3 Adapters}

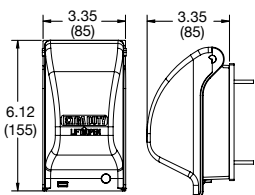


**1.55**  
Product Variations

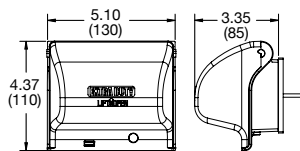
1 Box {6 Adapters}



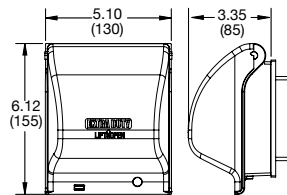
### Metallic Cover Dimensions - inches (mm)



**WP26E**



**WP26EH**



**WP262E**

Dimensions in Inches (mm)



## Features and Benefits

### Weatherproof Non-Metallic While-In-Use Covers

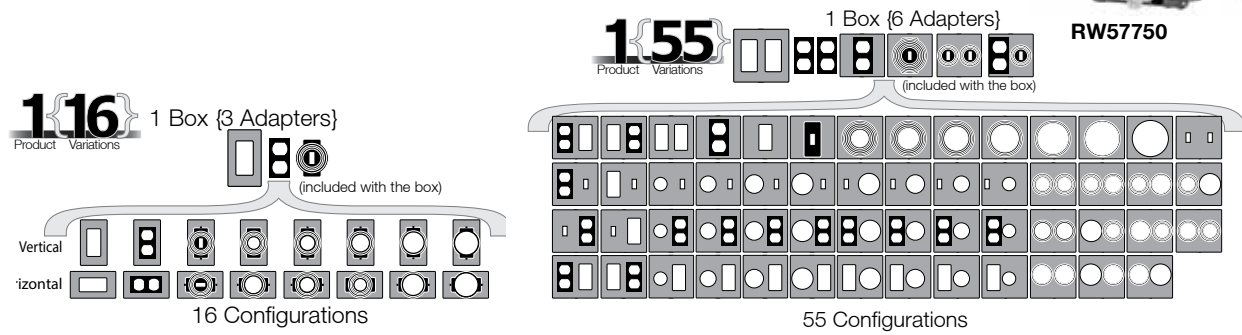
The NEMA 3R Rated EXTRA DUTY® Metallic and Non-metallic While-in-Use Covers offer weather protection for outlets when they are in use.

- Patented keyhole mounting system allows installation in under a minute
- Pre-configured for GFCI with patented technology for alternate devices
- Lockable tab for OSHA compliance
- Sealed-in-place gasket
- High-impact polycarbonate construction provides maximum durability
- Each box contains three or six adapters to make a variety of configurations (16 or 55)

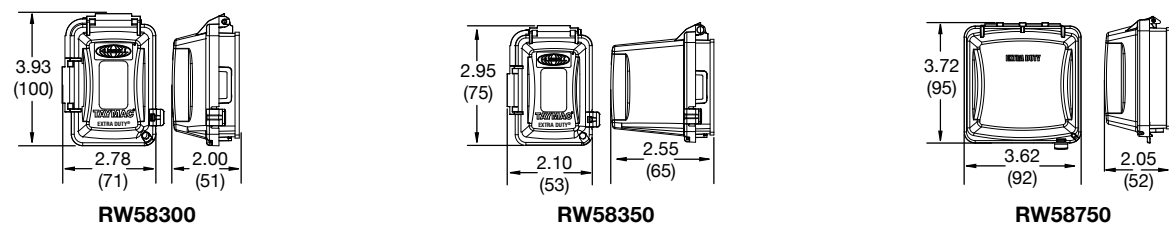


### Non-Metallic While-In-Use Covers

Description	Dimensions Height x Width x Depth	Standard	EXTRA DUTY®
Standard 1-gang box with clear tinted cover, for horizontal or vertical mounting; 16-in-1 configurations.	5.90" X 4.18" X 2.75" (149.8 X 106.1 X 69.9)	<b>RW57300</b>	<b>RW58300</b>
Extra deep 1-gang box with clear tinted cover, for horizontal or vertical mounting; 16-in-1 configurations.	5.92" X 4.20" X 4.75" (150.4 X 106.7 X 120.7)	<b>RW57350</b>	<b>RW58350</b>
Standard 2-gang box, clear tinted cover, for horizontal or vertical mounting; 55-in-1 configurations.	5.54" X 5.43" X 2.75" (140.7 X 138.0 X 69.9)	<b>RW57750</b>	<b>RW58750</b>



### Non-Metallic Cover Dimensions - inches (mm)



Dimensions in Inches (mm)

## 1-Gang Weatherproof Covers for Vertical Mounting

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Zinc die cast, gray, duplex cover for box mounting.	4.58" x 2.82" x 0.57" (116.3 x 71.6 x 14.5)		<b>RW51470</b>
Zinc die cast, gray, 1.40 in. (35.6) cover for single receptacle or toggle switch for device mounting.	4.56" x 2.81" x 0.88" (115.8 x 71.4 x 22.4)		<b>RW51550*</b>
Zinc die cast, gray, GFCI, Surge and Style Line® cover for device mounting.	4.58" x 2.81" x 0.57" (116.3 x 71.4 x 14.5)		<b>RW51040</b>



**RW51550**



**RW51470**



**RW51040**

## 1-Gang Weatherproof Covers for Horizontal Mounting

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Zinc die cast, gray, duplex cover for device mounting.	2.82" x 4.57" x 0.79" (71.6 x 116.1 x 20.1)		<b>RW51810</b>
Zinc die cast, gray, 1.40 in. (35.6) cover for single receptacle or toggle switch for device mounting.	2.81" x 4.56" x 0.99" (71.4 x 115.8 x 25.1)		<b>RW51520*</b>
Zinc die cast, gray, GFCI, Surge and Style Line® cover for device mounting.	2.82" x 4.56" x 0.52" (71.6 x 115.8 x 13.2)		<b>RW51020</b>



**RW51810**



**RW51520**



**RW51020**

## 2-Gang Weatherproof Covers for Vertical Mounting

Description	Dimensions		Catalog Number
	Height x Width x Depth		
Zinc die cast, gray, duplex cover for device mounting.	4.54" x 4.54" x 0.75" (115.3 x 115.3 x 19.1)		<b>RW51320</b>
Zinc die cast, gray, one duplex/one GFCI, Surge and Style Line® cover for box mounting.	4.54" x 4.54" x 0.77" (115.3 x 115.3 x 19.6)		<b>RW51330</b>
Zinc die cast, gray, 1.40 in. (35.6) cover for single receptacle or toggle switch for device mounting.	4.54" x 4.54" x 0.77" (115.3 x 115.3 x 19.6)		<b>RW51380</b>
Zinc die cast, gray, two GFCI, Surge and Style Line® cover for box mounting.	4.54" x 4.56" x 0.73" (115.3 x 115.8 x 18.5)		<b>RW51450</b>



**RW51330**



**RW51320**



**RW51380**



**RW51450**

*Note: All weatherproof plates are UL Listed for WET LOCATIONS WITH COVER CLOSED, for intermittent use in wet locations or use in damp locations. All plates are gasketed and self-closing.  
\*cULus Listed.*

Dimensions in Inches (mm)

# Wallplates and Covers

## Screws, 6-32 Thread, 100 Count

Description	Color/Material	Catalog Number
Decorator Wallplate Screws, Oval Head Milled Slot, 3/8 in. Long – 6-32 Thread, 100 per Box (Order 1 to receive a box of 100).	Almond	<b>RA38ALPK100</b>
	Black	<b>RA38BKPK100</b>
	Brown	<b>RA38PK100</b>
	Gray	<b>RA38GYPK100</b>
	Ivory	<b>RA38IPK100</b>
	Light Almond	<b>RA38LAPK100</b>
	White	<b>RA38WPK100</b>
	Stainless Steel	<b>RA38SSPK100</b>
	Brass plated screw, standard slot, .38 in. (.97) long.	Brass
Standard Wallplate Screws, Oval Head Milled Slot, 1/2 in. Long – 6-32 Thread, 100 per Box (Order 1 to receive a box of 100).	Almond	<b>RA12ALPK100</b>
	Black	<b>RA12BKPK100</b>
	Brown	<b>RA12PK100</b>
	Gray	<b>RA12GYPK100</b>
	Ivory	<b>RA12IPK100</b>
	Light Almond	<b>RA12LAPK100</b>
Standard Wallplate Screws, Oval Head Milled Slot, 5/8 in. Long – 6-32 Thread, 100 per Box (Order 1 to receive a box of 100).	Ivory	–
	White	–
	Stainless Steel	<b>RA58SSPK100</b>
Standard Wallplate Screws, Oval Head Milled Slot, 1.0 in. Long – 6-32 Thread, 100 per Box (Order 1 to receive a box of 100).	Ivory	<b>RA88IPK100</b>
	White	<b>RA88WPK100</b>
	Stainless Steel	<b>RA88SSPK100</b>



**RA38IPK100**



**HBL7341**



**RA12IPK100**



**RA58SSPK100**



**RA88IPK100**

## Single Count Screws and Accessories

Description	Color	Catalog Number
Blank adapter, to fill a toggle opening.	Brown	<b>RA756</b>
	Ivory	<b>RA756I</b>
	White	<b>RA756W</b>
Blank adapter, to fill a decorator opening.	Ivory	<b>NS620I</b>
	Light Almond	<b>NS620LA</b>
	White	<b>NS620W</b>
Blank adapter, .406" (10.30) dia. hole, to fill a decorator opening.	Ivory	<b>NS621I</b>
	Light Almond	<b>NS621LA</b>
	White	<b>NS621W</b>
Mounting strap, with screws.	Steel	<b>RA40</b>



**RA756W**

**RA40**



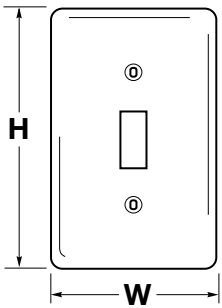
**NS620I**

**NS621I**

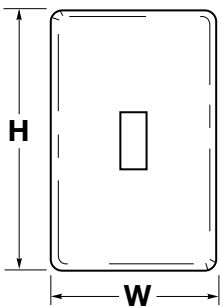
Dimensions in Inches (mm)

# Wallplates and Covers

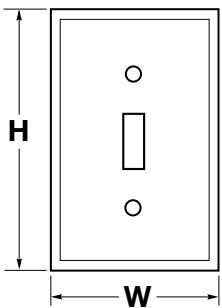
## Product Dimensions



Size	Standard Nylon		Mid-Size Nylon		Jumbo-Size Nylon	
	Height	Width	Height	Width	Height	Width
1-Gang	4.63" (117.6)	2.88" (73.2)	4.88" (124.0)	3.13" (79.5)	5.25" (133.4)	3.50" (88.9)
2-Gang	4.63" (117.6)	4.69" (119.1)	4.88" (124.0)	4.94" (125.4)	5.25" (133.4)	5.31" (134.9)
3-Gang	4.63" (117.6)	6.50" (165.1)	4.88" (124.0)	6.75" (171.5)		
4-Gang	4.63" (117.6)	8.31" (211.1)	4.88" (124.0)	8.56" (217.4)		
5-Gang	4.63" (117.6)	10.12" (256.1)				
6-Gang	4.63" (117.6)	11.93" (303.0)				



Size	Height	Width	Depth
1-Gang	4.75" (120.6)	3.00" (76.2)	.25" (6.35)
2-Gang	4.75" (120.6)	4.81" (122.2)	.25" (6.35)
3-Gang	4.75" (120.6)	6.62" (168.2)	.25" (6.35)
4-Gang	4.75" (120.6)	8.44" (214.3)	.25" (6.35)

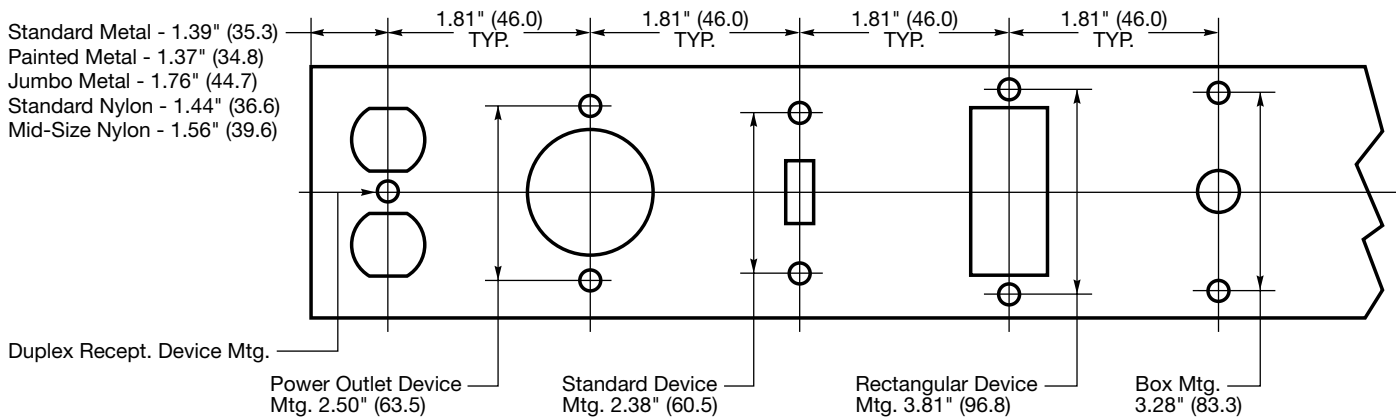


Size	Standard Metal		Painted Metal		Jumbo Metal	
	Height	Width	Height	Width	Height	Width
1-Gang	4.50" (114.3)	2.87" (72.9)	4.50" (114.3)	2.75" (69.8)	5.25" (133.4)	3.50" (88.9)
2-Gang	4.50" (114.3)	4.60" (116.8)	4.50" (114.3)	4.56" (115.8)	5.25" (133.4)	5.31" (134.9)
3-Gang	4.50" (114.3)	6.41" (162.8)	4.50" (114.3)	6.38" (162.1)		
4-Gang	4.50" (114.3)	8.22" (208.8)	4.50" (114.3)	8.18" (207.8)		
5-Gang	4.50" (114.3)	10.03" (254.8)	4.50" (114.3)	10.00" (254.0)		
6-Gang	4.50" (114.3)	11.81" (300.0)	4.50" (114.3)	11.81" (300.0)		
7-Gang	4.50" (114.3)	13.68" (347.5)				
8-Gang	4.50" (114.3)	15.44" (392.1)				

## Wallplate Openings and Mounting Dimensions

#6-32 Oval Head Screws Typical

Standard Metal - 1.39" (35.3)  
 Painted Metal - 1.37" (34.8)  
 Jumbo Metal - 1.76" (44.7)  
 Standard Nylon - 1.44" (36.6)  
 Mid-Size Nylon - 1.56" (39.6)



Note: Specifications are subject to change without notice.

Dimensions in Inches (mm)

# Wallplates and Covers

## Custom Metal Wallplates

How To Select A Custom Metal Wallplate

### Step 1:

Determine wallplate material and enter in box marked "Catalog Number"

Smooth Metal Material	Code
Anodized Aluminum	AL
Brass plated steel	BP
Solid brass	BR
Chrome plated steel	CH
Stainless steel 302/304	SS

Determine number of gangs required and enter in box marked "Catalog Number" next to material.

Number of Gangs	Code
1-gang	1
2-gang	2
3-gang	3
4-gang	4
5-gang	5
6-gang	6
7-gang	7
8-gang	8

Enter Catalog Number

◆ WC\* SS 4

### Step 2:

Enter quantity.

### Step 3:

Select the custom metal wallplate configuration.

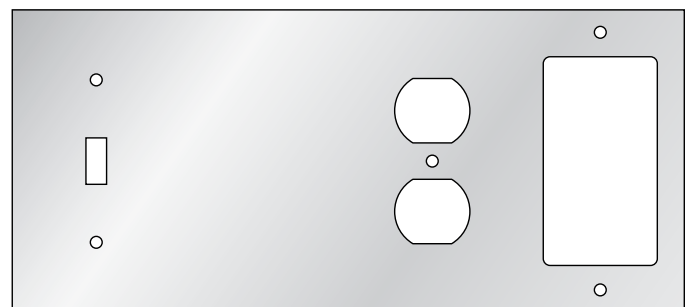
Refer to the custom wallplate configuration chart to select a configuration for each gang in the wallplate. Each configuration has a specific 3-digit code located in the right hand side of the chart on pages N-32 to N-34. Enter this 3-digit configuration code in the corresponding box on the order form grid to match the position required on the finished custom wallplate.

Item No.	Catalog Number	Quantity	Code	Position 1	Position 2	Position 3	Position 4
1	WCSS4		H*	001	149	008	026
2							

Note: \*WC and H are preprinted on the distributor order form.

◆ Number to use for pricing.

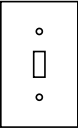
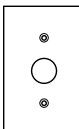
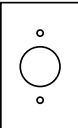
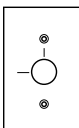
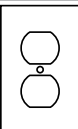
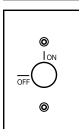
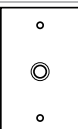
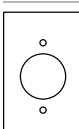
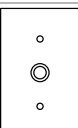
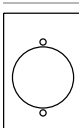

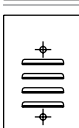


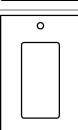
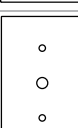
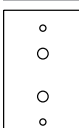
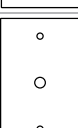

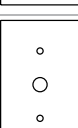

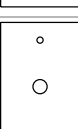
The 3-digit numbers listed at the upper right of the Sample Order Form (001, 149, etc.) represent the custom metal wallplate selected on the right. See Configuration Chart and Hubbell Configuration Selector Guide on pages N-32 to N-34 for additional configuration choices.





# Wallplates and Covers

## Configuration Chart

	<b>001</b> Switch.		<b>078</b> Barrel Key Switch.
	<b>007</b> Single Receptacle. 1.40" ID (35.6) Hole.		<b>079</b> Barrel Key Switch with hash marks.
	<b>008</b> Duplex Receptacle.		<b>080</b> Barrel Key Switch with ON/OFF and hash marks.
	<b>011</b> 1-gang .635" ID (16.1) Hole Box Mounted with .50" ID (12.7) Nylon Bushing.		<b>091</b> Single Receptacle. 1.60" ID (40.5) Hole.
	<b>012</b> 1-gang .635" ID (16.1) Hole Strap Mtd. incl. Strap with .50" ID (12.7) Nylon Bushing.		<b>098</b> Single Receptacle. 2.16" ID (54.7) Hole.
	<b>013</b> Blank Box Mounted.		<b>135</b> Vertical Mounted Louver.
	<b>014</b> Blank Strap Mounted incl. Strap.		<b>149</b> Totally Blank (no mounting holes).
	<b>026</b> Rectangular Opening.	<b>Coax/Twinax and Modular Jack Openings</b>	
	<b>055</b> 1-gang .375" ID (9.5) Hole Strap Mounted incl. Strap.		<b>456</b> .375" (9.5) Dia. Round Box Mounted.
	<b>056</b> 1-gang .375" ID (9.5) Hole Box Mounted.		<b>458</b> .500" (12.7) Dia. Round Box Mounted.
	<b>057</b> 1-gang .50" ID (12.7) Hole Strap Mounted incl. Strap.		<b>411</b> .635" (16.1) Dia. Round Box Mounted.
	<b>058</b> 1-gang .50" ID (12.7) Hole Box Mounted.		

Note: For detailed dimensions of the above configurations, see pages N-33 and N-34. Available in smooth metal, standard size only up to and including 8-gang type.

Dimensions in Inches (mm)

# Wallplates and Covers

## Configuration Chart (Continued)

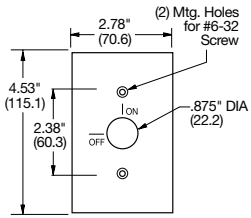
	<p><b>Configuration 001</b></p> <p>Toggle Switch Plate.</p>		<p><b>Configuration 026</b></p> <p>GFI/Rectangular Opening.</p>
	<p><b>Configuration 007</b></p> <p>Single 15 or 20A Straight Blade Receptacle. 15A Twist-Lock® Receptacle.</p>		<p><b>Configuration 055</b></p> <p>Single, .375" (9.5) Telephone (Strap Mount).</p>
	<p><b>Configuration 008</b></p> <p>Duplex Receptacle.</p>		<p><b>Configuration 056</b></p> <p>Single, .375" (9.5) Telephone (Box Mount).</p>
	<p><b>Configuration 011</b></p> <p>Single, .635" (16.1) Telephone (Box Mount).</p>		<p><b>Configuration 057</b></p> <p>Single, .50" (12.7) Telephone (Strap Mount).</p>
	<p><b>Configuration 012</b></p> <p>Single, .635" (16.1) Telephone (Strap Mount).</p>		<p><b>Configuration 058</b></p> <p>Single, .50" (12.7) Telephone (Box Mount).</p>
	<p><b>Configuration 013</b></p> <p>Blank Plate (Box Mount).</p>		<p><b>Configuration 078</b></p> <p>Barrel Key Switch.</p>
	<p><b>Configuration 014</b></p> <p>Blank Plate (Strap Mount).</p>		<p><b>Configuration 079</b></p> <p>Barrel Key Switch with hash marks.</p>

Note: Specifications are subject to change without notice.

Dimensions in Inches (mm)

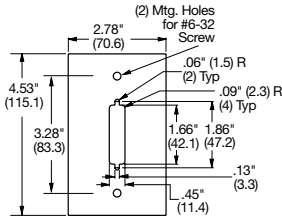
# Wallplates and Covers

## Configuration Chart (Continued)



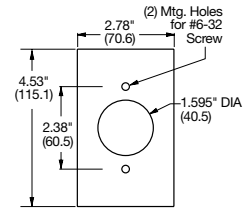
**Configuration 080**

Barrel Key Switch with ON/OFF and hash marks.



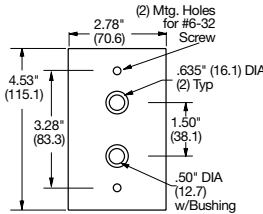
**Configuration 295**

RS232 Port Single 25-Pin (Box Mount).



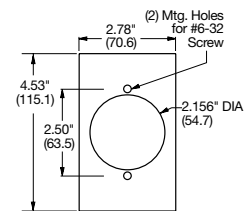
**Configuration 091**

Single 20 or 30A Twist-Lock® Receptacle.



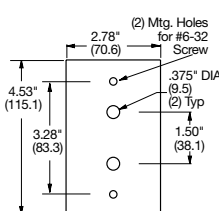
**Configuration 411**

Dual .635" (16.1) Holes (Box Mount).



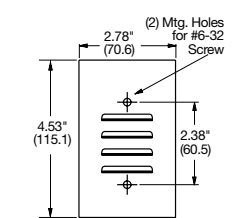
**Configuration 098**

Single Receptacle, 30 or 50A Straight Blade, 3 Wire Power Outlet.



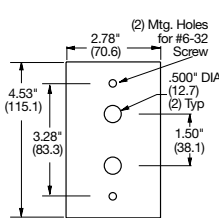
**Configuration 456**

Dual .375" (9.5) Round (Box Mount).



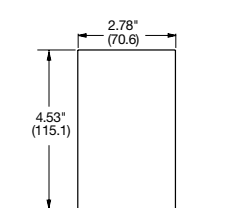
**Configuration 135**

Louvered Plate (Strap Mount).



**Configuration 458**

Dual .500" (12.7) Round (Box Mount).



**Configuration 149**

Totally Blank Plate.

Note: Specifications are subject to change without notice.

Dimensions in Inches (mm)

# SECTION O

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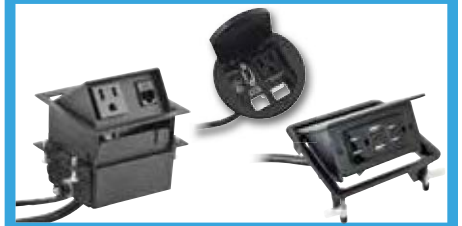
**SystemOne Recessed Concrete Floor Boxes**



**CONNEXION 2.0 Zone Distribution System**



**Furniture and Work Surface Boxes**



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## Products at a Glance



### 2-Gang Recessed

The Hubbell SystemOne 2-Gang Recessed Concrete Floor Box offers eight styles, satisfying the requirements of almost any commercial building application. Rectangular or round covers, as well as furniture feed covers, are available in a variety of finishes to blend with any existing or new décor. A parallel-device layout reduces plug interference, maximizing functionality and performance.



### 4-Gang Recessed

Similar to the 2-Gang Recessed Concrete Floor Box, Hubbell's SystemOne 4-Gang Recessed Concrete Floor Box is available with rectangular or round covers. Ten different styles make it possible to meet the electrical requirements of most commercial projects - new construction or renovation. The parallel device layout maximizes functionality which can be limited when devices are mounted 90° from one another.



### 6-Gang Recessed


Increased power, data, and AV capacity is what the Hubbell SystemOne 6-Gang Recessed Concrete Floor Box was designed to handle. Four styles allow the floor box to work within almost any commercial application to enhance connectivity. Rectangular and round covers are available in a variety of finishes that work with any aesthetic or finish.



### 10-Gang Recessed

With maximum capacity in a small footprint, the 10-Gang box provides a uniform look with rectangular or round covers that are available in several finishes to complement existing décor. Electrical devices are mounted vertically and are mounted to the plate prior to securing it to the box. Two inch knockouts are designed into each box allowing for simple installation of AV cables with pre-connectorized heads and specific bend radius requirements.

## Cover

- 180° cover opening
- Two large cable egress doors
- Listed to UL 514A and UL scrub water compliant
- Die cast aluminum cover construction
- Available in round, rectangular and furniture feed styles
- All covers are ADA compliant 
- Post pour adjustment

## Box

- 16 gauge galvanized sheet metal and cast iron construction
- Optional fusion-bonded, green epoxy paint for on-grade use
- 6 in. solid conductor ground pigtail in each gang
- 3 in. deep version accepts adapter (CFBHUB2) for 2 in. conduit
- Pre pour adjustment
- Meets UL 514A requirements and are UL scrub water compliant
- Patent pending, labor saving, easy mount device plates



# Floor Boxes

## Features and Benefits

### SystemOne Recessed Concrete Floor Boxes

Featuring the unique capabilities of Hubbell's SystemOne family, Hubbell has expanded its floor box offering to provide industry leading flexibility while accommodating an extensive range of applications. Hubbell SystemOne is constructed to give customers the ability to create personal solutions for their most demanding, power, data and audio/video requirements.



CFB4G30 with  
24GCCVRBK Cover



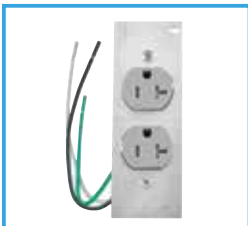
#### Family Look

- Hubbell SystemOne Recessed Floor Box line offers a common look regardless of capacity or installation. This simple concept ensures a consistent look throughout a building with rectangular or round covers. Round covers lend themselves to multi-story buildings, also using Fire-Rated Poke-Through devices



#### Covers

- All SystemOne covers are ADA compliant. The doors open to 180° for maximum access. Cables and plugs are protected by recessed connections



#### 1 Screw 3 Fasteners

- Pre-wired duplex or Style Line® receptacles with 8 in. stranded leads are installed into plates to allow for even more labor savings



#### Easy Mount Device Plates

- The Easy Mount device plates allow for a device to be mounted to the plate and wired outside of the floor box. The device and plate assembly are then easily installed and secured with one stud that locates the plate and one screw to secure it
- This patent pending device fastening method maximizes efficiency while reducing install time and comes standard with all device plates for 2, 4 and 6-gang boxes



#### CR Version

- Coated with fusion-bonded epoxy paint to help prevent corrosion and intended for on-grade use

# Floor Boxes

## Selecting a SystemOne Recessed Concrete Floor Box

To assist with the floor box selection process, please have the following information available:

Electrical requirements:	Application:	Cover style:
Power (each electrical device requires one gang) Data/AV (consult manufacturers' specification for size/volume requirements), number required.  Add up total number to determine needed capacity. If necessary capacity is not shown round up to next size. Example: 9-Gang rounds up to a 10-Gang floor box	On-grade (OG) Above-grade (AG)  Minimum concrete pour depth	Round Rectangular

Once this information is gathered start on the capacity column:

- ① Capacity: Select necessary box.
- ② Application: Select the concrete pour depth and on-grade or above-grade application.
- ③ Cover style: Select round or rectangular cover.
- ④ Locate interconnecting point of all three categories and move to right to select correct catalog number.

		Application - Minimum Pour Depth ②												Select Correct Catalog Number ④
		2 ½ in.		3 in.		3 ¼ in.		3 ¾ in.		5 ½ in.		6 ¾ in.		
		AG	OG	AG	OG	AG	OG	AG	OG	AG	OG	AG	OG	
2-Gang	•													CFB2G25
		•												CFB2G25CR
			•											CFB2G30
				•										CFB2G30CR
					•									CFB2G25R
						•								CFB2G25RCR
							•							CFB2G30R
								•						CFB2G30RCR
4-Gang	•													CFB4G25
		•												CFB4G25CR
			•											CFB4G30
				•										CFB4G30CR
					•									CFB4G25R
						•								CFB4G25RCR
							•							CFB4G30R
								•						CFB4G30RCR
6-Gang			•											CFB6G30
				•										CFB6G30CR
					•									CFB6G30R
							•							CFB6G30RCR
10-Gang								•						CFB10G55
									•					CFB10G55CR
										•				CFB10G55R
											•			CFB10G55RCR
		Rectangular	Rectangular	Round	Round	Rectangular	Round							
		Cover Style ③												

# Floor Boxes

## Features and Benefits

### SystemOne Recessed Benefits and Enhancements

#### Functionality

- Cables and connections are protected by recessed functionality
- Open architecture sub-plate design
- Common door layout regardless of flange for harmonized look
- Meets UL 514A scrub water requirements with ScrubShield® technology
- Easy selection with common look for all floor types

#### Value

- Enhance building décor with numerous finishes
- Increase durability and longevity with cast aluminum covers

#### Online Resources

- BIM models, customer drawings and technical specifications are available on [www.hubbell-wiring.com](http://www.hubbell-wiring.com)



CFB6G30 with  
610GCCVRBK Cover




#### Safety

- Flush flange available for tile, finished concrete or Terrazzo
- Surface flange available for carpeted floors with 0.15 in. rise meets ADA requirements
- Hideaway egress doors fold under cover while in use
- 180° opening of main door



#### Covers

- All SystemOne covers are ADA compliant.  The doors open to 180° for maximum access. Cables and plugs are protected by recessed connections



#### Concrete Pour Pocket Cap

- In concrete applications, all SystemOne Recessed floor boxes include a yellow factory installed, field-removable pour pocket cap provides a pocket in the final floor to accept the covers intended for terrazzo, tile, or finished concrete floor. The cap may not be used for carpet, wood or engineered floors



#### 2 Inch Conduit Ready

- To meet expanding AV and data needs, the Hubbell SystemOne Recessed Floor Box line readily accepts 2 inch conduits with the use of a 2 inch threaded conduit hub. The offset design allows for less conduit lifting while threading and the hub mounting holes are asymmetrical for installation efficiency

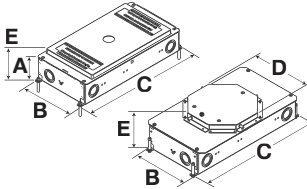

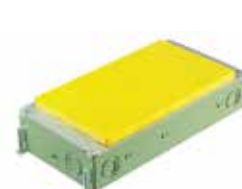




#### CR Version

- Corrosion resistant epoxy paint intended for on-grade use, the CR version is coated with fusion-bonded epoxy paint to help prevent corrosion

## SystemOne Recessed 2-Gang Floor Boxes and Covers, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover	
				
Box Type				
Standard Corrosion-Resistant (On-grade)	<b>CFB2G30</b> <b>CFB2G30CR</b>	<b>CFB2G25</b> <b>CFB2G25CR</b>	<b>CFB2G30R</b> <b>CFB2G30RCR</b>	<b>CFB2G25R</b> <b>CFB2G25RCR</b>
Recommended Pour Depth	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)
Min. Depth of Pour	3.00" (76.2)	2.50" (63.5)	3.75" (95.3)	3.25" (82.6)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm <sup>3</sup> ) Capacity per Gang	35.0 cu. in. (570 cm <sup>3</sup> )	30.0 cu. in. (490 cm <sup>3</sup> )	35.0 cu. in. (570 cm <sup>3</sup> )	30.0 cu. in. (490 cm <sup>3</sup> )
Dimensions – A	2.97" (75.3)	2.41" (61.1)	–	–
Dimensions – B	6.62" (168.2)	6.62" (168.2)	7.32" (185.9)	7.32" (185.9)
Dimensions – C	13.79" (350.3)	13.79" (350.3)	13.79" (350.3)	13.79" (350.3)
Dimensions – D	–	–	6.37" (161.7) TYP.	6.37" (161.7) TYP.
Dimensions – E	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)
KO Trade Size: Front & Back Sides Bottom	(1) ¾", 1", 1¼" (2) ¾", 1" (4) ½", ¾"	(1) ¾", 1", 1¼" (2) ½", ¾", 1" (4) ½", ¾", 1"	(1) ¾", 1", 1¼" (2) ½", ¾", 1" (4) ½", ¾", 1"	(1) ½", ¾", 1" (2) ½", ¾", 1" (4) ½", ¾", 1"
Cover Family	Rectangular	Rectangular	Round	Round
Concrete Cover Included	✓	✓	✓	✓
2 Inch Hub Compatible	✓	–	✓	–

### Rectangular Covers

- Compatible with **CFB2G25**, **CFB2G25CR**, **CFB2G30** and **CFB2G30CR**
- Two large cable egress doors and access 180° opening
- Maximum static load of 800 lbs. with 2x safety factor\*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11 <sup>1</sup> / <sub>16</sub> in. x 7 <sup>7</sup> / <sub>16</sub> in.			Cover dimensions 10 <sup>1</sup> / <sub>16</sub> in. x 6 <sup>3</sup> / <sub>16</sub> in.		
	Surface	Surface with Insert	Furniture Feed (1 in. and 2 in. Plugs)	Flush	Flush with Insert	Furniture Feed (1 in. and 2 in. Plugs)
Aluminum Powder Coated	<b>24GCCVRALU</b>	<b>24GCCVRALUC</b>	<b>24GFFCVRALU</b>	<b>24GTCVRALU</b>	<b>24GTCVRALUC</b>	<b>24GFFCVRALU</b>
Black Powder Coated	<b>24GCCVRBK</b>	<b>24GCCVRBKC</b>	<b>24GFFCVRBK</b>	<b>24GTCVRBK</b>	<b>24GTCVRBKC</b>	<b>24GFFCVRBK</b>
Brass Powder Coated	<b>24GCCVRBRS</b>	<b>24GCCVRBRSC</b>	<b>24GFFCVRBRS</b>	<b>24GTCVRBRS</b>	<b>24GTCVRBRSC</b>	<b>24GFFCVRBRS</b>
Bronze Powder Coated	<b>24GCCVRBRZ</b>	<b>24GCCVRBRZC</b>	<b>24GFFCVRBRZ</b>	<b>24GTCVRBRZ</b>	<b>24GTCVRBRZC</b>	<b>24GFFCVRBRZ</b>
Satin Nickel Powder Coated	<b>24GCCVRNK</b>	<b>24GCCVRNKC</b>	<b>24GFFCVRNK</b>	<b>24GTCVRNK</b>	<b>24GTCVRNKC</b>	<b>24GFFCVRNK</b>



### 6 Inch Round Covers

- Compatible with **CFB2G25R**, **CFB2G25RCR**, **CFB2G30R** and **CFB2G30RCR**
- Cover has a 7½ in. outer diameter and two large cable egress doors and access 180° opening
- Maximum static load of 1000 lbs. with 2x safety factor\*

Finish	Flush Surface	Furniture Feed (¾ in. and 2 in. Plugs)
Brushed Aluminum	<b>CFBS1R6CVRALU</b>	<b>CFBS1R6FFCVRALU</b>
Black Powder Coated	<b>CFBS1R6CVRBLK</b>	<b>CFBS1R6FFCVRBLK</b>
Brass Plated	<b>CFBS1R6CVRBRS</b>	<b>CFBS1R6FFCVRBRS</b>
Bronze Plated	<b>CFBS1R6CVRBRZ</b>	<b>CFBS1R6FFCVRBRZ</b>
Satin Nickel Plated	<b>CFBS1R6CVRNKL</b>	<b>CFBS1R6FFCVRNKL</b>

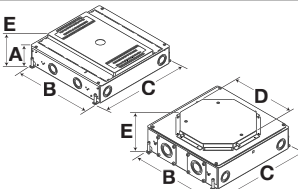








Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)

## SystemOne Recessed 4-Gang Floor Boxes and Covers, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover		Cast Iron	
						
Box Type						
Standard	<b>CFB4G30</b>	<b>CFB4G25</b>	<b>CFB4G30R</b>	<b>CFB4G25R</b>	-	-
Corrosion-Resistant (On-grade)	<b>CFB4G30CR</b>	<b>CFB4G25CR</b>	<b>CFB4G30RCR</b>	<b>CFB4G25RCR</b>	-	-
Cast Iron	-	-	-	-	<b>CFB4G30CI</b>	<b>CFB4G30RCI</b>
Recommended Pour Depth	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)	4.25" (108.0)	4.00" (101.6)
Min. Depth of Pour	3.00" (76.2)	2.50" (63.5)	3.75" (95.3)	3.25" (82.6)	3.75" (95.3)	4.00" (101.6)
Adjustability	Fully	Fully	Fully	Fully	Fully	
Cubic Inch (cm3) Capacity per Gang	32.5 cu. in. (530 cm3)	26.5 cu. in. (430 cm3)	32.5 cu. in. (530 cm3)	26.5 cu. in. (430 cm3)	32.5 cu. in. (430 cm3)	
Dimensions – A	3.46" (87.8)	2.96" (75.1)	-	-	3.20" (81.3)	-
Dimensions – B	12.08" (306.8)	12.08" (306.8)	12.08" (306.8)	12.08" (306.8)	13.19" (335.1)	13.19" (335.1)
Dimensions – C	11.20" (284.5)	11.20" (284.5)	11.20" (284.5)	11.20" (284.5)	11.44" (290.5)	11.44" (290.5)
Dimensions – D	-	-	8.37" (212.5) TYP.	8.37" (212.5) TYP.	-	8.37" (212.5) TYP.
Dimensions – E	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)	3.68" (93.3)	4.00" (101.6)
KO Trade Size: Front & Back Sides Bottom	(2) ¾", 1", 1¼" (2) ½", ¾", 1" (4) ½", ¾", 1"	(2) ½", ¾", 1" (2) ½", ¾", 1" (4) ½", ¾", 1"	(2) ¾", 1", 1¼" (2) ½", ¾", 1" (4) ½", ¾", 1"	(2) ½", ¾", 1" (2) ½", ¾", 1" (4) ½", ¾", 1"	(4) 1½" NPT Thread (4) ¾" NPT Thread	
Cover Family	Rectangular	Rectangular	Round	Round	Rectangular	Round
Concrete Cover Included	✓	✓	✓	✓		✓
2 Inch Hub Compatible	✓	-	✓	-		-

### Rectangular Covers

- Compatible with **CFB4G25**, **CFB4G25CR**, **CFB4G30** and **CFB4G30CR**
- Two large cable egress doors and access 180° opening
- Maximum static load of 800 lbs. with 2x safety factor\*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11 <sup>1</sup> / <sub>16</sub> in. x 7 <sup>3</sup> / <sub>16</sub> in.			Cover dimensions 10 <sup>1</sup> / <sub>16</sub> in. x 6 <sup>3</sup> / <sub>16</sub> in.		
	Surface	Surface with Insert	Furniture Feed (1 in. and 2 in. Plugs)	Flush	Flush with Insert	Furniture Feed (1 in. and 2 in. Plugs)
Aluminum Powder Coated	<b>24GCCVRALU</b>	<b>24GCCVRALUC</b>	<b>24GFFCVRALU</b>	<b>24GTCVRALU</b>	<b>24GTCVRALUC</b>	<b>24GFFCVRALU</b>
Black Powder Coated	<b>24GCCVRBK</b>	<b>24GCCVRBK C</b>	<b>24GFFCVRBK</b>	<b>24GTCVRBK</b>	<b>24GTCVRBK C</b>	<b>24GFFCVRBK</b>
Brass Powder Coated	<b>24GCCVRBRS</b>	<b>24GCCVRBRSC</b>	<b>24GFFCVRBRS</b>	<b>24GTCVRBRS</b>	<b>24GTCVRBRSC</b>	<b>24GFFCVRBRS</b>
Bronze Powder Coated	<b>24GCCVRBRZ</b>	<b>24GCCVRBRZC</b>	<b>24GFFCVRBRZ</b>	<b>24GTCVRBRZ</b>	<b>24GTCVRBRZC</b>	<b>24GFFCVRBRZ</b>
Satin Nickel Powder Coated	<b>24GCCVRNK</b>	<b>24GCCVRNK C</b>	<b>24GFFCVRNK</b>	<b>24GTCVRNK</b>	<b>24GTCVRNK C</b>	<b>24GFFCVRNK</b>



### 8 Inch Round Covers

- Compatible with **CFB4G25R**, **CFB4G25RCR**, **CFB4G30R**, **CFB4G30RCR** and **CFB4G30RCI**
- Cover has a 9½ in. outer diameter and two large cable egress doors and access 180° opening
- Maximum static load of 1000 lbs. with 2x safety factor\*

Finish	Flush Surface
Brushed Aluminum	<b>CFBS1R8CVRALU</b>
Black Powder Coated	<b>CFBS1R8CVRBLK</b>
Brass Plated	<b>CFBS1R8CVRBRS</b>
Bronze Plated	<b>CFBS1R8CVRBRZ</b>
Satin Nickel Plated	<b>CFBS1R8CVRNKL</b>



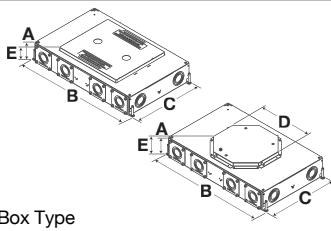

Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)



## SystemOne Recessed 6-Gang Floor Boxes and Covers, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover	
	CFB6G30	CFB6G30CR	CFB6G30R	CFB6G30RCR
Box Type				
Standard	CFB6G30	-	CFB6G30R	-
Corrosion-Resistant (On-grade)	-	CFB6G30CR	-	CFB6G30RCR
Recommended Pour Depth	3.50" (88.9)	3.50" (88.9)	3.75" (95.3)	3.75" (95.3)
Min. Depth of Pour	3.00" (76.2)	3.00" (76.2)	3.75" (95.3)	3.75" (95.3)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm3) Capacity per Gang	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)
Dimensions – A	3.00" (76.2)	3.00" (76.2)	-	-
Dimensions – B	18.48" (469.4)	18.48" (469.4)	17.45" (443.2)	17.45" (443.2)
Dimensions – C	11.62" (295.1)	11.62" (295.1)	11.60" (294.5)	11.60" (294.5)
Dimensions – D	-	-	8.37" (212.5) TYP.	8.37" (212.5) TYP.
Dimensions – E	3.46" (87.8)	3.46" (87.8)	3.75" (95.3)	3.75" (95.3)
KO Trade Size: Front & Back	(4) ¾", 1", 1¼"	(4) ¾", 1", 1¼"	(4) ¾", 1", 1¼"	(4) ¾", 1", 1¼"
Sides	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"
Bottom	(4) ¾", 1", 1¼", 1½"	(4) ¾", 1", 1¼", 1½"	(4) ¾", 1", 1¼", 1½"	(4) ¾", 1", 1¼", 1½"
Cover Family	Rectangular	Rectangular	Round	Round
Concrete Cover Included	✓	✓	✓	✓
2 Inch Hub Compatible	✓	✓	✓	✓

### Rectangular Covers

- Compatible with **CFB6G30** and **CFB6G30CR**
- Two large cable egress doors and access 180° opening
- Maximum static load of 1500 lbs. with 2x safety factor\*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11½ in. x 10 in.		Cover dimensions 10½ in. x 9 in.	
	Surface	Surface with Insert	Flush	Flush with Insert
Aluminum Powder Coated	<b>610GCCVRALU</b>	<b>610GCCVRALUC</b>	<b>610GTCVRALU</b>	<b>610GTCVRALUC</b>
Black Powder Coated	<b>610GCCVRBK</b>	<b>610GCCVRBK</b>	<b>610GTCVRBK</b>	<b>610GTCVRBK</b>
Brass Powder Coated	<b>610GCCVRBRS</b>	<b>610GCCVRBRSC</b>	<b>610GTCVRBRS</b>	<b>610GTCVRBRSC</b>
Bronze Powder Coated	<b>610GCCVRBRZ</b>	<b>610GCCVRBRZC</b>	<b>610GTCVRBRZ</b>	<b>610GTCVRBRZC</b>
Satin Nickel Powder Coated	<b>610GCCVRNK</b>	<b>610GCCVRNK</b>	<b>610GTCVRNK</b>	<b>610GTCVRNK</b>



### 8 Inch Round Covers

- Compatible with **CFB6G30R** and **CFB6G30RCR**
- Two large cable egress doors and access 180° opening
- Maximum static load of 1000 lbs. with 2x safety factor\*

Finish	Surface
Brushed Aluminum	<b>CFBS1R8CVRALU</b>
Black Powder Coated	<b>CFBS1R8CVRBLK</b>
Brass Plated	<b>CFBS1R8CVRBRS</b>
Bronze Plated	<b>CFBS1R8CVRBRZ</b>
Satin Nickel Plated	<b>CFBS1R8CVRNK</b>






Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)

## SystemOne 2, 4 and 6-Gang Plates and Accessories

### Plates for Use in 2, 4 and 6-Gang Floor Boxes

- UL 514A listed

Plate Style	(1) Decorator Opening	(1) Duplex Opening	(2) Extron® MAAP Openings	(2) Extron® Openings
Cat. No.	<b>FBMPREC</b>	<b>FBMPDUP</b>	<b>FBMPMAAP</b>	<b>FBMPAAP</b>
				
Plate Style	(2) 1U Hubbell iStation Openings	(1) 1.5U Hubbell iStation Opening	(1) Simplex Opening 1.40 in. Diameter	(1) Twist-Lock® Opening 1.60 in. Diameter
Cat. No.	<b>FBMP2IM</b>	<b>FBMP15IM</b>	<b>FBMP139</b>	<b>FBMP156</b>
				
Plate Style	1-Gang Blank	Cable Feed Through with Bushing	(1) Opening for TracJack® or Series II®	(1) Opening with Hubbell ISF6 Frame for Keystone Jacks
Cat. No.	<b>FBMPBNK</b>	<b>FBMPFT</b>	<b>FBMPTRAC</b>	<b>FBMP6KS</b>
				

### Pre-Wired Device Plates

- Reduces wiring and installation times
- 8 in. stranded leads mounted to the face plate

Description	Type	15A	20A
Duplex, Gray.	Standard Tamper-Resistant	<b>PWFBMPCR15GRY</b> <b>PWFBMPCR15GRYTR</b>	<b>PWFBMPCR20GRY</b> <b>PWFBMPCR20GRYTR</b>
Decorator, Gray.	Standard Tamper-Resistant	<b>PWFBMPDR15GRY</b> <b>PWFBMPDR15GRYTR</b>	<b>PWFBMPDR20GRY</b> <b>PWFBMPDR20GRYTR</b>



### Accessories

Description		Catalog Number
2 in. threaded zinc hub for use with <b>CFB2G30</b> , <b>CFB4G30</b> and <b>CFB6G30</b> series floor boxes; replaces <b>CFBKOPATE</b> .		<b>CFBHUB2</b>
Replacement knock-out plate.	Standard Epoxy Coating	<b>CFBKOPATE</b> <b>CFBKOPATECR</b>
Replacement wire-way, used to pass wires from one compartment to the other, for use in rectangular boxes.	CFB2G30/CR CFB4G30/CR CFB4G25/CR	2-Gang <b>CFB2WW</b> 4 and 6-Gang <b>CFB46WW</b> <b>CFB4WW</b>
Stackable ring to increase box height and concrete pour depth by ¼ in. increments above top plane of floor box. One ring per ¼ in. depth increase. <b>Must be installed before concrete pour.</b>		<b>CFB6RCVRR075</b> <b>CFB8RCVRR075</b>
Finished floor height adjustment ring - <b>increase post pour adjustment</b> ; use with round cover series.	0 - ¼ in. ¼ in. - ½ in. ½ in. - ¾ in.	<b>CFB6RCVRR1*</b> <b>CFB6RCVRR2</b> <b>CFB6RCVRR3</b> <b>CFB8RCVRR1**</b> <b>CFB8RCVRR2</b> <b>CFB8RCVRR3</b>
2 and 4-gang rectangular pre-pour ½ in. extension caps (2 pack).		<b>24GEXTENDCAP2PK</b>
6 and 10-gang rectangular pre-pour ½ in. extension caps (2 pack).		<b>610GEXTENDCAP2PK</b>

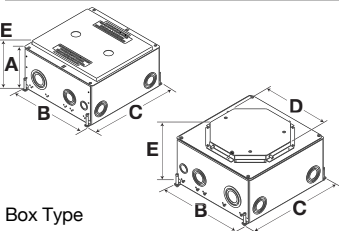




Note: \*Included with standard **CFB2G30R** and **CFB2G25R** series.  
\*\*Included with standard **CFB4G30R** and **CFB4G25R** series.

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Dimensions in Inches (mm)

## SystemOne Recessed 10-Gang Floor Boxes and Covers, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover	
	CFB10G55	CFB10G55CR	CFB10G55R	CFB10G55RCR
 Box Type				
Standard	CFB10G55	-	CFB10G55R	-
Corrosion-Resistant (On-grade)	-	CFB10G55CR	-	CFB10G55RCR
Recommended Pour Depth	6.00" (152.4)	6.00" (152.4)	6.25" (158.8)	6.25" (158.8)
Min. Depth of Pour	5.50" (139.7)	5.50" (139.7)	6.25" (158.8)	6.25" (158.8)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm <sup>3</sup> ) Capacity per Gang	33 cu. in./89 cu. in. (535 cm <sup>3</sup> /1450 cm <sup>3</sup> )	33 cu. in./89 cu. in. (535 cm <sup>3</sup> /1450 cm <sup>3</sup> )	33 cu. in./89 cu. in. (535 cm <sup>3</sup> /1450 cm <sup>3</sup> )	33 cu. in./89 cu. in. (535 cm <sup>3</sup> /1450 cm <sup>3</sup> )
Dimensions – A	5.50" (139.7)	5.50" (139.7)	-	-
Dimensions – B	10.96" (278.4)	10.96" (278.4)	10.96" (278.4)	10.96" (278.4)
Dimensions – C	10.96" (278.4)	10.96" (278.4)	12.10" (307.4)	12.10" (307.4)
Dimensions – D	-	-	8.37" (212.5) TYP.	8.37" (212.5) TYP.
Dimensions – E	6.00" (152.4)	6.00" (152.4)	6.25" (158.8)	6.25" (158.8)
KO Trade Size: Front & Back	(1) 1/2", 3/4", (1) 3/4", 1", 1 1/4", 1 1/2", (1) 1", 1 1/4", 1 1/2", 2"	(1) 1/2", 3/4", (1) 3/4", 1", 1 1/4", 1 1/2", (1) 1", 1 1/4", 1 1/2", 2"	(1) 1/2", 3/4", (1) 3/4", 1", 1 1/4", 1 1/2", (1) 1", 1 1/4", 1 1/2", 2"	(1) 1/2", 3/4", (1) 3/4", 1", 1 1/4", 1 1/2", (1) 1", 1 1/4", 1 1/2", 2"
Sides	(2) 3/4", 1", 1 1/4", 1 1/2"	(2) 3/4", 1", 1 1/4", 1 1/2"	(2) 3/4", 1", 1 1/4", 1 1/2"	(2) 3/4", 1", 1 1/4", 1 1/2"
Bottom	(2) 1/2", 3/4", (4) 1/2", 3/4", 1", 1 1/4"	(2) 1/2", 3/4", (4) 1/2", 3/4", 1", 1 1/4"	(2) 1/2", 3/4", (4) 1/2", 3/4", 1", 1 1/4"	(2) 1/2", 3/4", (4) 1/2", 3/4", 1", 1 1/4"
Cover Family	Rectangular	Rectangular	Round	Round
Concrete Cover Included	✓	✓	✓	✓
2 Inch Hub Compatible	-	-	-	-

### Rectangular Covers

- Compatible with **CFB10G55** and **CFB10G55CR**
- Two large cable egress doors and access 180° opening
- Maximum static load of 1500 lbs. with 2x safety factor\*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11 1/2 in. x 10 in.		Cover dimensions 10 1/2 in. x 9 in.	
	Surface	Surface with Insert	Flush	Flush with Insert
Aluminum Powder Coated	<b>610GCCVRALU</b>	<b>610GCCVRALUC</b>	<b>610GTCVRALU</b>	<b>610GTCVRALUC</b>
Black Powder Coated	<b>610GCCVRBK</b>	<b>610GCCVRBKUC</b>	<b>610GTCVRBK</b>	<b>610GTCVRBKUC</b>
Brass Powder Coated	<b>610GCCVRBRS</b>	<b>610GCCVRBRSC</b>	<b>610GTCVRBRS</b>	<b>610GTCVRBRSC</b>
Bronze Powder Coated	<b>610GCCVRBRZ</b>	<b>610GCCVRBRZC</b>	<b>610GTCVRBRZ</b>	<b>610GTCVRBRZC</b>
Satin Nickel Powder Coated	<b>610GCCVRNK</b>	<b>610GCCVRNKUC</b>	<b>610GTCVRNK</b>	<b>610GTCVRNKUC</b>



### 8 Inch Round Covers

- Compatible with **CFB10G55R** and **CFB10G55RCR**
- Two large cable egress doors and access 180° opening
- Maximum static load of 1000 lbs. with 2x safety factor\*

Finish	Surface
Brushed Aluminum	<b>CFBS1R8CVRALU</b>
Black Powder Coated	<b>CFBS1R8CVRBLK</b>
Brass Plated	<b>CFBS1R8CVRBRS</b>
Bronze Plated	<b>CFBS1R8CVRBRZ</b>
Satin Nickel Plated	<b>CFBS1R8CVRNK</b>



Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)

## SystemOne 10-Gang Plates and Accessories

### CFB10 Series – Plates

Plate Style	(1) Decorator Opening	(1) Duplex Opening	Blank	Decorator Opening Plate Including Hubbell ISF6GY	(2) Openings to Accommodate (6) Ortronics TrackJack®
Cat. No.	<b>FB10MPREC</b>	<b>FB10MPDUP</b>	<b>FB10MPBNK</b>	<b>FB10MPKEY</b>	<b>FB10MPTRAC</b>



Plate Style	(2) Decorator	(4) Extron® MAAP Modules	(4) Extron® AAP Modules	For (6) 1U Hubbell iStation Modules	Replacement Spacer Around Wire-Way
Cat. No.	<b>FB10MP2A</b>	<b>FB10MPMAAP</b>	<b>FB10MPAAP</b>	<b>FB10MP2B</b>	<b>FB10MPX</b>



Plate Style	(1) Twist-Lock® Opening 1.60 in. Dia. (Uses 2-Gangs)	(1) Simplex Opening 1.40 in. Dia. (Uses 2-Gangs)	(2) Twist-Lock® Opening 1.60 in. Dia. (Uses 3-Gangs)	(2) Simplex Opening 1.40 in. Dia. (Uses 3-Gangs)	(1) Opening for Appliance Receptacle (Uses 3-Gangs)
Cat. No.	<b>FB10TLA</b>	<b>FB10TLX</b>	<b>FB10TLB</b>	<b>FB10TLY</b>	<b>FB10MP3GAPP</b>



Plate Style	(3) Twist-Lock® Opening 1.60 in. Dia. (Uses 5-Gangs)	(3) Simplex Opening 1.40 in. Dia. (Uses 5-Gangs)	(2) 2-Gang. Meets NEMA Spacing. Ideal for Crestron® DM –TX Product and Power (Uses 5-Gangs)	(4) Single Service Openings Utilizing NEMA Wallplate (Uses 5-Gangs)
Cat. No.	<b>FB10TLC</b>	<b>FB10TLZ</b>	<b>CFB10NEMA</b>	<b>FB10MPNEMA4G</b>



### Pre-Wired Device Plates

- Reduces wiring and installation times
- 8 inch stranded leads mounted to the face plate

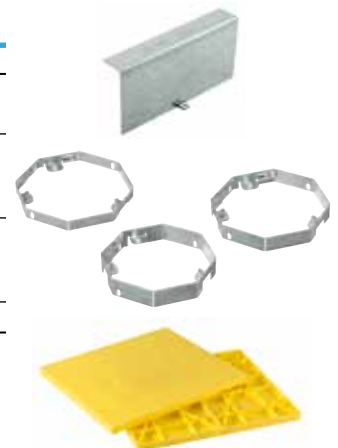
Description	Type	15A	20A
Duplex, Gray.	Standard Tamper-Resistant	<b>PWFB10MPCR15GRY</b> <b>PWFB10MPCR15GRYTR</b>	<b>PWFB10MPCR20GRY</b> <b>PWFB10MPCR20GRYTR</b>
Decorator, Gray.	Standard Tamper-Resistant	<b>PWFB10MPDR15GRY</b> <b>PWFB10MPDR15GRYTR</b>	<b>PWFB10MPDR20GRY</b> <b>PWFB10MPDR20GRYTR</b>



### Accessories

Description	Catalog Number
Replacement wire-way, used to pass wires from one compartment to the other, for use in <b>CFB10G55/CR</b> rectangular boxes.	<b>CFB10WW</b>
Stackable ring to increase box height and concrete pour depth by ¼ in. increments above top plane of floor box. One ring per ¼ in. depth increase. <b>Must be installed before concrete pour.</b>	<b>CFB8RCVRR075</b>
Finished floor height adjustment ring - <b>increase post pour adjustment</b> ; use with round cover series.	0 - ¼ in. <b>CFB8RCVRR1*</b> ¼ in. - ½ in. <b>CFB8RCVRR2</b> ½ in. - ¾ in. <b>CFB8RCVRR3</b>
6 and 10-gang rectangular pre-pour ½ in. extension caps (2 pack).	<b>610GEXTENDCAP2PK</b>

Note: \*Included with standard **CFB10G30R** series.



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Dimensions in Inches (mm)

## The Next Big Step In Innovation



Locate installation area and connect conduits



Pour concrete



Cut box top level with concrete



Install flooring



Install Adjustable Mounting Cup and level with finished flooring **CFBS1R4CUP**



Wire devices into box



Finish with cover **CFBS1R4CVR**

### Installing the Fully Adjustable Mounting Cup and Level with Finished Flooring

We have solved this issue with the integral, patented, mounting cup which adjusts the device mounting depth to 3 inches, no matter the floor thickness. Additionally, this is helpful for engineered flooring on the concrete; the cup allows for the electrical devices to be adjusted upwards up to 1½ inches.



**CFBS1R4CUP**



**CFBS1R4PFB**



## Features and Benefits

### SystemOne Fully Adjustable 4 inch Recessed Floor Boxes and Covers, for Use In Concrete Floors

The Hubbell SystemOne Fully Adjustable Recessed floor box is the next step in a long line of quality products delivering power, data and AV for any application. The challenge of a recessed adjustable floor box is the device depth would vary for different floor thicknesses. We have solved this issue with the integral, patented, mounting cup which adjusts the device mounting depth to 3 inches, no matter the floor thickness. Additionally, this is helpful for engineered flooring on the concrete; the cup allows for the electrical devices to be adjusted upwards up to 1½ inches. This feature is particularly accommodating when the final flooring is unknown at the time concrete is being poured.

Utilizing the same cover design as our 4 inch Recessed Fire-Rated Poke-Throughs, a common look is now possible anywhere in a building, on grade or above.



**CFBS1R4PFB** with **CFBS1R4CVRNKL** Cover



#### Box Design

- Up to 2 inch conduit ready (Cast iron maximum conduit - 1½ inches)
- Available in PVC, stamped steel, epoxy coated stamped steel or cast iron construction available
- cULus Listed - Scrubwater compliant



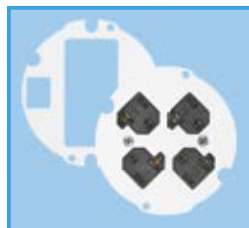
#### Covers

- 1000 lb, static load rated cover
- Available in six architectural cover finishes
- ADA – American's with Disabilities Act – compliant flange thickness of 0.15 inch



#### Chamber

- 3 inch deep access chamber
- Patented post pour adjustable mounting cup with teeth spaced in 5/32 inch increments allows for up to 1½ inches of upward adjustability from the lowest position, ideal for engineered flooring
- High visibility white cup for making easy connections



#### Easy Mount Device Plates

- Multiple, open architecture mounting plates for power, data and AV
- Recessed connections

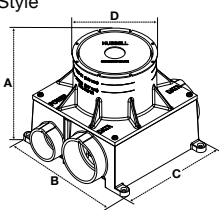
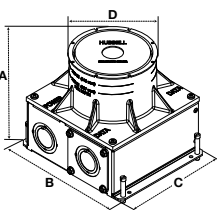






#### 2 Inch Conduit Ready

- To meet expanding AV and data needs, the Hubbell SystemOne Recessed Floor Box line readily accepts 2 inch conduits with the use of a 2 inch threaded conduit hub - **CFBHUB2** Sold Separately
- The offset design allows for less conduit lifting while threading, plus the hub mounting holes are asymmetrical to ensure correct mounting

## SystemOne Fully Adjustable 4 inch Recessed Floor Boxes and Covers, for Use In Concrete Floors

### Dimensions Inches (mm)

Style			Cast Iron 	Corrosion-Resistant 	Stamped Steel 	Non-Metallic 
	Cast Iron / Non-Metallic	Stamped Steel	<b>CFBS1R4CFB</b>	<b>CFBS1R4SFBCR</b>	<b>CFBS1R4SFB</b>	<b>CFBS1R4PFB</b>
Min. Depth of Pour			5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)
Max. Pour Depth			6.00" (152.4)	6.00" (152.4)	6.00" (152.4)	6.00" (152.4)
Cubic Inch (cm3) Capacity			72.0 cu. in. (1800 cm3)	80.0 cu. in. (1311 cm3)	80.0 cu. in. (1311 cm3)	67.0 cu. in. (1098 cm3)
Dimensions – A			6.00" (152.4)	6.00" (152.4)	6.00" (152.4)	6.00" (152.4)
Dimensions – B			7.60" (193.0)	7.40" (188.0)	7.40" (188.0)	7.85" (199.4)
Dimensions – C			6.58" (16.1)	6.32" (160.6)	6.32" (160.6)	6.58" (16.1)
Dimensions – D			4.48" (113.7)	4.48" (113.7)	4.48" (113.7)	4.48" (113.7)
Power Entries			1 inch NPT	1¼, 1, ¾ inch	1¼, 1, ¾ inch	1¼, 1, ¾, ½ inch
Data Entries			1½ inch NPT	2*, 1¼, 1, ¾ inch	2*, 1¼, 1, ¾ inch	2, 1½, 1¼, 1 inch
Concrete Cover Included			✓	✓	✓	✓
Closure Plugs Included			✓	–	–	✓
Reducers			–	–	–	✓
CFBS1R4xx Cover Family			✓	✓	✓	✓
Compatible with CFBHUB2 - 2" Conduit Fitting			–	✓	✓	–

Note: UL File Number E92074.  
CSA File Number LR18416.  
\*Requires CFBHUB2 for 2" conduits.

### Adjustable Mounting Cup

The Adjustable Mounting Cup (AMC) is the heart of the **CFBS1R4** Floor Box product line, and must be **purchased separately** from the floor boxes. With teeth spaced in  $\frac{5}{32}$  inch increments, the adjustable cup allows for installation ease and flexibility. The AMC is dropped into the floor box collar then rotated clockwise to set the height and is adjustable until the ground plate is installed. Once the ground plate is installed, the cup is locked into place preventing unwanted adjustment of height. Lastly, the device mounting plate and electrical devices are installed.



Description	Catalog Number
<b>Adjustable Mounting Cup</b> Includes white cup, grey low voltage dividers and ground plate.	<b>CFBS1R4CUP</b> Floor boxes purchased independantly from cup



Dimensions in Inches (mm)

## SystemOne Fully Adjustable 4 inch Recessed Floor Boxes and Covers, for Use In Concrete Floors

### Floor Box Covers

The 4 inch recessed cover is available in a number of durable, yet beautiful finishes to match any décor. The flange height of 0.15 inch is ADA compliant and suitable for use on any floor finish. All covers are UL 514A listed and meet UL Scrubwater requirements.

#### Features

- Flange diameter is 5.5 inches
- Flange thickness is 0.15 inches thick and complies with ADA requirements
- Cover load rating is 1000 lbs. with 2x safety factor\* for a static load applied through a 3 inch mandrel
- Available in six finishes
  - Satin nickel, antique bronze and brushed brass are plated finishes
  - Brushed aluminum is the base material brushed and lacquered
  - Black and gray finishes are powder coat












### Architectural Cover Finishes

Description	Finish	Catalog Number
Cover with single fold under cable egress door.	Brushed Aluminum	<b>CFBS1R4CVRALU</b>
	Plated Brushed Brass	<b>CFBS1R4CVRBRS</b>
	Plated Antique Bronze	<b>CFBS1R4CVRBRZ</b>
	Plated Satin Nickel	<b>CFBS1R4CVRNKL</b>
	Black Powder Coat	<b>CFBS1R4CVRBLK</b>
	Gray Powder Coat	<b>CFBS1R4CVRGRY</b>









Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

### Device Mounting Plates

Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate
2X2 Sub-plate with (1) decorator device opening and (2) keystone jack openings <b>S1R4SP2X2STYLE</b>		(1) StyleLine® decorator device opening for power or datacom applications <b>S1R4SPSTYLE</b>		2X2 Sub-plate with (1) decorator device opening and (2) Ortronics® TracJack® openings <b>S1R4SP2X2STYLETJ</b>	
2X2 Sub-plate with (1) duplex device opening and (2) keystone jack openings <b>S1R4SP2X2DUPLEX</b>		(1) Duplex device opening for power or datacom applications <b>S1R4SPDUPLEX</b>		2X2 Sub-plate with (1) duplex device opening and (2) Ortronics® TracJack® openings <b>S1R4SP2X2DUPLEXTJ</b>	
(4) Single 20A receptacles. Can be wired as single or two circuit with isolated ground capability, 12 inch wire leads <b>S1R4SPQUAD</b>		(1) 1.60 inch opening for 20 or 30A Twist-Lock® receptacle <b>S1R4SPTWIST</b>		(1) 1.40 inch opening for simplex receptacle <b>S1R4SPSIMPLEX</b>	

### Accessories and Replacement Parts

Description	Catalog Number	Description	Catalog Number
Allows the conduit connections for the low voltage portion of the CFBS1R4SFB and CFBS1R4SFBCR to be increased to 2 inch capacity. The offset design helps to minimize conduit float during the concrete pour.	<b>CFBHUB2</b> 	Set of conduit reducing adapters for use with the CFBS1R4PFB. Includes two each of the following adapters to reducing to the corresponding conduit diameter.	 <b>CFBADAPT125</b> 1, ¾ and ½ inch <b>CFBADAPT200</b> 1½, 1¼ and 1 inch
Replacement low voltage partition for use in all four CFBS1R4 series floor boxes.	<b>CFBS1R4DIV</b> 	Replacement pre-pour concrete cover for use with all four of the CFBS1R4 series floor boxes.	<b>CFBS1R4COVER</b> 
Replacement ground bracket for use in all four CFBS1R4 series floor boxes.	<b>CFBS1R4GND</b> 	Pre-pour PVC stand increases CFBS1R4PFB box height 2.5 in. to 4.0 in. within the concrete pour.	<b>PFBSTAND</b> 

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# Floor Boxes

## Products at a Glance

Flush Floor Box Applications feature unique capabilities of Hubbell's SystemOne universal cover and sub-plate design, Hubbell has expanded its floor box offering to provide industry leading flexibility while accommodating an extensive range of applications. Hubbell SystemOne is constructed to give customers the ability to create personal solutions for their most demanding, power, data and audio/video requirements.

## SystemOne Flush Floor Box Applications...



### Multi-Service Applications

This Hubbell SystemOne sub-plate incorporates a standard Style Line® decorator opening, which can be used for an active multimedia device. In addition, a 20A outlet is supplied for power and two keystone openings for voice/data services.



### Multimedia Applications

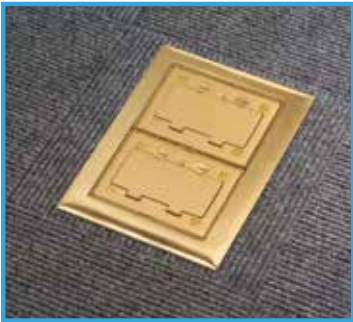
Other Hubbell SystemOne sub-plates are designed to meet the growing needs of the audio/video market. Some sub-plates provide power outlets with Hubbell's AV products including 15-pin SVGA, RCA, S-Video, 3.5mm stereo, HDMI and XLR microphone jacks. Other sub-plates can accommodate Extron® Electronics MAAP and AAP series AV modules, as well as FSR IPS plates.



### 4X4 Applications

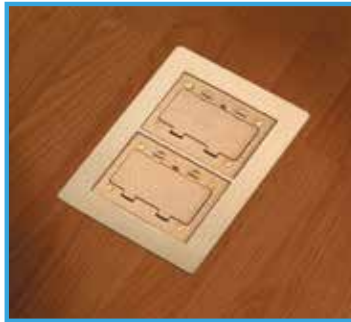
Provides maximum power capacity for flush, multi-service applications. This sub-plate features a pre-wired four outlet 20A, 125V receptacle and four openings for flush mount Hubbell modular jacks and audio/video Snap Fit connectors. Receptacle wiring permits dual-circuit, as well as isolated ground applications.

## Traditional Floor Boxes...



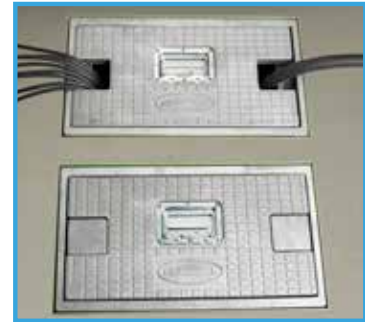
### Flush Applications

Hubbell offers a wide variety of traditional solutions including single and multi-gang cast iron, stamped steel and non-metallic floor boxes in both round and rectangular designs. These boxes can be finished with either brass or aluminum covers and flanges to match any office décor. All Hubbell floor box assemblies exceed UL scrub water exclusion requirements.



### Wooden Floor Applications

Hubbell offers round, single service and rectangular, multi-service floor boxes for wooden floor applications. The rectangular boxes are available in one, two and three-gang options and feature removable barriers for maximum capacity while maintaining separation of power and low voltage. A variety of covers and flanges are available in brushed aluminum or brass to meet aesthetic requirements.



### Heavy Load Rating

For environments where floor boxes will be subjected to extreme loads, Hubbell offers two different solutions. The Ballroom Box series has a static cover load rating of 20,000 lbs. and can accommodate up to 8 devices. The Convention Center family offers a static cover load rating of 32,000 lbs. and can accommodate up to 100A Pin & Sleeve devices.

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## SystemOne Flush Floor Box Family

### Cast Iron



S1CFB

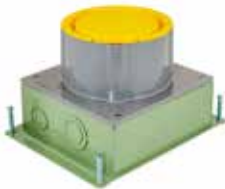
- Corrosion resistant for on-grade applications
- Oversized 1½" NPT threaded conduit access holes for low voltage
- 1" NPT threaded conduit access holes for power

### Steel



S1SFB

- Stamped steel construction
- Economical and light weight for above-grade applications
- Concentric knockouts permit various conduit sizes for both power and data services



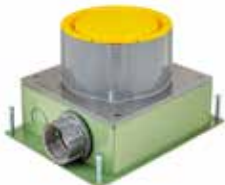
S1SFBCR

### Steel AV



S1SFBAV

- Accommodates high-capacity multimedia applications in a 3½" minimum depth of pour
- Oversized 1½" NPT threaded data hub
- ¾", 1" concentric knockouts for power services



S1SFBAVCR

### Features

- Easily installed, aesthetic and configurable floor box solution, for open floor plans that require both power and data services
- The Hubbell SystemOne Universal Cover mounts directly to the floor box riser, eliminating the need for an additional adapter collar
- The Hubbell SystemOne Universal Cover features ScrubShield® technology that exceeds UL514 scrub water exclusion requirements
- Convenient cubic inch capacity (cm<sup>3</sup>) markings on interior of box
- Leveling feet provide before pour adjustability
- Non-metallic riser allows a simple saw cut for adjustment after pour
- Supplied with concrete cover and closure plugs (where applicable)
- Designed to accommodate multi-service applications with the wide offering of Hubbell SystemOne sub-plates
- Hubbell SystemOne Metal Floor Boxes are approved for use in the City of Chicago
- CR versions incorporate fusion bonded epoxy paint for on grade use

### Non-Metallic



S1PFB

- Non-corrosive plastic construction
- Oversized 1½" data conduit hub for increased cable capacity and bend radius
- Parallel conduit hubs reduce labor and material cost, facilitating easier wire pull

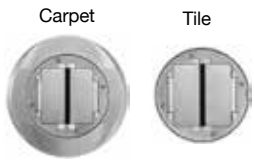
### Features

- Economical, easy to install, in-floor delivery system for open plan spaces
- The Hubbell SystemOne Universal Cover mounts directly to the floor box riser, eliminating the need for an additional adapter collar
- Concrete cover, conduit reducers and conduit hub plugs included



## SystemOne Flush Covers

### Universal Flange and Cover Assembly



- Hinged doors open 180° flush to the carpet flange or tile
- Locking studs allow each door to be secured independently
- The universal carpet or tile flange can be used for Hubbell SystemOne Floor Boxes and Fire-Rated Poke-Throughs
- Finishes and colors available:



### Features

- Durable cast aluminum construction available in black, gray, brass, aluminum and ivory powder coat finishes
- Features ScrubShield® technology that exceeds UL514 scrub water exclusion requirements
- Provides consistent look and maximum functionality throughout the installed life
- Meets ADA standards for accessible design

### SystemOne Flush Sub-Plates

Hubbell's modular sub-plate design allows users to economically upgrade Hubbell SystemOne FRPT and Floor Boxes to accommodate future moves, adds and changes. See page O-20 for additional information.



4x4 Sub-Plate



Datacom and Power Sub-Plate



Extron® AAP/MAAP and Power Sub-Plate



Dual Style Line® Decorator Sub-Plate



Twist-Lock® Sub-Plate



Furniture Feed Cover, Carpet

### Features

- Durable cast aluminum construction, powder coat finish
- Hubbell 4X4: four 20A, 125V receptacles, four keystone openings for voice/data jacks and flush multimedia connectors
- Hubbell X-END and Hubbell iSTATION modular connectivity
- Accommodates Extron® Electronics Architectural Series audio/video system integration products
- Accommodates GFCI, surge and standard Style Line® Decorator receptacles
- Twist-Lock® receptacle with two flush keystone openings
- Large capacity and multi-service furniture feed applications
- Open system sub-plates permit maximum data flexibility

### Power Devices and Connectivity



Hubbell-PRO Receptacles



Hubbell iSTATION



Hubbell X-END

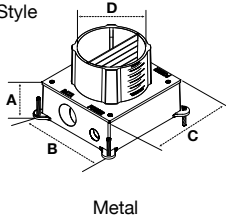
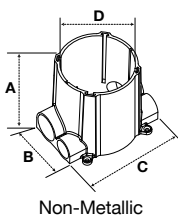




### Features

- Choose from Hubbell's industry leading selection of wiring devices for power services
- Hubbell iSTATION connectivity modules integrate with SystemOne to provide comprehensive multimedia solutions
- Hubbell X-END application cables and tails allow for more connectivity in a smaller footprint

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## SystemOne Flush Metal and Non-Metallic Floor Boxes and Covers, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Cast Iron	Steel	Steel AV	Non-Metallic	
 <p>Metal</p>	 <p>Non-Metallic</p>				
Standard Corrosion-Resistant (On-grade)	<b>S1CFB*</b> -	<b>S1SFB*</b> <b>S1SFBCR</b>	<b>S1SFBAV*</b> <b>S1SFBAVCR</b>	<b>S1PFB</b> -	
Min. Depth of Pour	3.50" (88.9)	3.50" (88.9)	3.50" (88.9)	3.00" (76.2)	
Adjustability	Fully	Fully	Fully	Fully	
Cubic Inch (cm <sup>3</sup> ) Capacity	156.0 cu. in. (2556.4 cm <sup>3</sup> )	175.7 cu. in. (2879.2 cm <sup>3</sup> )	177.5 cu. in. (2909.7 cm <sup>3</sup> )	100 cu. in. (1638.7 cm <sup>3</sup> )	
Dimensions – A	3.00" (76.2)	3.00" (76.2)	3.00" (76.2)	6.00" (152.4)	
Dimensions – B	7.26" (184.4)	7.50" (190.5)	7.50" (190.5)	5.58" (141.7)	
Dimensions – C	7.45" (189.2)	7.38" (187.4)	7.38" (187.4)	7.08" (179.8)	
Dimensions – D (Inside Diameter)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	5.00" (127.0)	
Power Entries	1" NPT Access Holes	¾", 1" Concentric KO	¾", 1" Concentric KO	1" Conduit Hub	
Data Entries	1½" NPT Access Holes	¾", 1", 1¼" Concentric KO	1½" Threaded Hub (included)	1½" Conduit Hub	
Concrete Cover Included	✓	✓	✓	✓	
Closure Plugs Included	✓	-	✓	✓	
Reducers	-	-	-	(see below)	
Accepts Hubbell SystemOne Universal Cover	✓	✓	✓	✓	
Cover Mounting Clips Included	✓	✓	✓	✓	
Non-Metallic Low Voltage Divider Included (S1DIV1)	✓	✓	✓	✓	

Note: UL File Number E92074.  
CSA File Number LR18416.  
\*S1CFB, S1SFB, S1SFBAV are approved for use in the City of Chicago.

**S1PFB** reducers included: Qty (2) combo plug/reducers 1" to ¾"  
Qty (2) reducers 1½" to 1"  
Qty (2) reducers 1½" to ¾"  
Qty (2) plugs 1½"

### SystemOne Universal Covers

- Cast aluminum construction
- Durable powder coat finish



Color	Carpet	Tile
Aluminum Finish	<b>S1FCAL</b>	<b>S1TFCAL</b>
Brass Finish	<b>S1FCBRS</b>	<b>S1TFCBRS</b>
Black	<b>S1FCBBL</b>	<b>S1TFCBBL</b>
Gray	<b>S1FCGGY</b>	<b>S1TFCGGY</b>
Ivory	<b>S1FCFI</b>	<b>S1TFCFI</b>



Aluminum Finish    Brass Finish    Black    Gray    Ivory

### Floor Box Accessories

Description	Color	Catalog Number
<b>Abandonment Plates</b> Used to cover abandoned SystemOne Fire-Rated Poke-Throughs or Floor Boxes.	Black Gray	<b>S1AP4BL</b> <b>S1AP4GY</b>
<b>Replacement Side by Side Divider</b> Used to isolate compartments in <b>S1SP</b> , <b>S1SPFFx</b> , <b>S1SPFFTx</b> , <b>S1SPDU</b> , <b>S1SPDUSL</b> , <b>S1SPDU2IM</b> and <b>S1SPSL2IM</b> sub-plates. Included with all SystemOne Floor Boxes.		<b>S1DIV1</b>
<b>1½" Threaded Hub</b> For use with <b>S1SFB</b> ONLY. Permits feed-through applications. <b>S1SFB</b> floor box includes one (1) threaded hub.		<b>S1AVHUB15</b>
<b>Replacement Universal Cover Mounting Clips</b> Used to mount SystemOne Universal Cover to SystemOne metal and non-metallic floor boxes ( <b>S1CFB</b> , <b>S1SFB</b> , <b>S1SFB</b> , <b>S1SFB</b> , <b>S1PFB</b> ).		<b>S1FBCLIP5PK</b>
Pre-pour PVC stand increases <b>S1PFB</b> box height 2.5 in. to 4.0 in. within the concrete pour.		<b>PFBSTAND</b>

Dimensions in Inches (mm)

## SystemOne Flush Sub-Plates

Description	Catalog Number	Description	Catalog Number	Description	Catalog Number
<b>Style Line® Decorator/GFCI</b> (2) Style Line® decorator openings for power and/or datacom applications.	<b>S1SP</b>	<b>Duplex/Duplex</b> (2) Duplex openings for power and/or datacom applications.	<b>S1SPDU</b>	<b>Duplex/Style Line® Decorator</b> (1) Duplex and (1) Style Line® decorator opening for power and/or datacom applications.	<b>S1SPDUSL</b>
ⓐ Non-Metallic ⓑ Metal		ⓐ Non-Metallic ⓑ Metal		ⓐ Non-Metallic ⓑ Metal	
<b>Hubbell 4 X 4</b> (4) 20A, 125V receptacles. (4) Keystone openings for Hubbell jacks or flush AV connectors. Power can be wired as single or two circuit with isolated ground capability.	<b>S1SP4X4</b>	<b>Carpet Furniture Feed Cover/Flange*</b> (1) 3/4" and (1) 1 1/2" NPT access holes for power and/or datacom applications. Universal Cover not required. Includes carpet flange.	<b>S1SPFFAL</b>	<b>Tile Furniture Feed Cover/Flange*</b> (1) 3/4" and (1) 1 1/2" NPT access holes for power and/or datacom applications. Universal Cover not required. Includes tile flange.	<b>S1SPFFTAL</b>
ⓐ Includes ⓑ stickers.	<b>S1SP4X4C</b>	ⓐ Non-Metallic Aluminum Fin. ⓑ Metal Brass Finish	<b>S1SPFFBR</b>	ⓐ Non-Metallic Aluminum Fin. ⓑ Metal Brass Finish	<b>S1SPFFTBR</b>
Provided with 15 ft. wire leads	<b>S1SP4X415</b>	ⓑ Metal Black	<b>S1SPFFBL</b>	ⓑ Metal Black	<b>S1SPFFTBL</b>
Provided with 30 ft. wire leads	<b>S1SP4X430</b>	Gray	<b>S1SPFFGY</b>	Gray	<b>S1SPFFTGY</b>
<b>Single Receptacle + Data</b> Opening for 20 or 30A Twist-Lock® receptacle (1.56" OD) and (2) Keystone openings for Hubbell jacks or flush AV connectors.	<b>S1SPTL</b>	<b>Hubbell DataCom + Power</b> (1) 20A, 125V receptacle and 3-unit recessed Hubbell iSTATION opening for data, voice, and AV applications.	<b>S1SP3IM</b>	<b>Hubbell DataCom + Duplex</b> (1) Duplex opening, (2) flush Keystone openings and 1.5 unit recessed Hubbell iSTATION opening for data, voice and AV applications.	<b>S1SPDU2IM</b>
ⓐ		ⓑ Marked with "ⓑ Controlled"	<b>S1SP3IMC</b>	ⓑ	
<b>Hubbell DataCom + Style Line® Decorator</b> (1) Style Line® decorator opening, (2) flush Keystone openings and 1.5 unit recessed Hubbell iSTATION opening for data, voice and AV applications.	<b>S1SPSL2IM</b>	<b>Hubbell DataCom</b> 1 unit flush Hubbell iSTATION opening and 3-unit recessed Hubbell iSTATION opening for data, voice, and AV applications.	<b>S1SP4IM</b>	<b>Active Multimedia + Power</b> Single 20A, 125V receptacle; (2) flush Keystone openings; (1) rectangular Style Line® decorator opening to accommodate active multimedia modules or low voltage outlet frames.	<b>S1SPAMM20</b>
ⓑ		ⓑ		ⓑ Marked with "ⓑ Controlled"	<b>S1SPAMM20C</b>
<b>Extron® or FSR + Power</b> (1) 20A, 125V receptacle. Recessed opening for (3) single Extron® MAAP series adapter plates or FSR IPS plates.	<b>S1SPEXT1</b>	<b>Extron® or FSR + Power</b> (1) 20A, 125V receptacle. Recessed opening for (1) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS plates.	<b>S1SPEXT2</b>	<b>Extron® or FSR Single-Service</b> Recessed opening for (2) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS plates.	<b>S1SPEXT3</b>
ⓐ Marked with "ⓑ Controlled"	<b>S1SPEXT1C</b>	ⓐ Marked with "ⓑ Controlled"	<b>S1SPEXT2C</b>	ⓑ	
<b>Extron® AAP + Power</b> (1) 20A, 125V receptacle. (2) flush Keystone & recessed opening for (2) single Extron® AAP Series adapter plates.	<b>S1SPEXT4</b>	<b>Ortronics Series II® + Power</b> (1) 20A, 125V receptacle. Recessed opening for (3) 1 unit Ortronics Series II® modules.	<b>S1SPORT</b>	<b>Ortronics TracJack® + Power</b> (1) 20A, 125V receptacle. Recessed bezel for (6) Ortronics TracJack® modules.	<b>S1SPTRAC</b>
ⓐ Marked with "ⓑ Controlled"	<b>S1SPEXT4C</b>	ⓑ Marked with "ⓑ Controlled"	<b>S1SPORTC</b>	ⓑ Marked with "ⓑ Controlled"	<b>S1SPTRACC</b>
<b>Panduit Mini Com® 4 X 4</b> (4) 20A, 125V receptacles. (4) Openings for Panduit Mini-Com Connectivity.	<b>S1SP4X4PA</b>	<b>SYSTIMAX® 4 X 4</b> (4) 20A, 125V receptacles. (4) Openings for SYSTIMAX® Connectivity.	<b>S1SP4X4SYS</b>	<b>Siemon MAX® + Power</b> (1) 20A, 125V receptacle. Recessed bezel for (6) Siemon MAX® modules.	<b>S1SPMAX</b>
ⓐ Includes ⓑ stickers.	<b>S1SP4X4PAC</b>	ⓐ Includes ⓑ stickers.	<b>S1SP4X4SYS C</b>	ⓑ Marked with "ⓑ Controlled"	<b>S1SPMAXC</b>

Note: \*Furnished with two screws in flexible metal conduit connectors.

ⓑ Signifies minimum depth of concrete pour in inches for Metal Floor Boxes (**S1CFB**, **S1SFB** and **S1SFBV**) and Non-Metallic Floor Box (**S1PFB**).

## Sub-Plate Accessories

Description	Catalog Number	Description	Catalog Number
<b>Replacement Threaded Conduit Plugs</b> Used with <b>S1SPFFx</b> and <b>S1SPFFT</b> only. Sub-plate is supplied with plugs.		Replacement for <b>S1SPMAX</b> . Sub-plate is supplied with data frame. Works with Siemon MAX®.	<b>S1DFMAX</b>
1 1/2" Plug	<b>S1FP15AL</b>	Replacement for <b>S1SPTRAC</b> sub-plate. Sub-plate is supplied with data frame. Works with Ortronics TracJack®.	<b>S1DFTRAC</b>
3/4" Plug	<b>S1FP34AL</b>	Blank Style Line® decorator frame, Black.	<b>NS620BK</b>
Aluminum Finish	<b>S1FP15BR</b>	2-Port Style Line® decorator frame, Black.	<b>ISF2BK</b>
Brass Finish	<b>S1FP15BL</b>	4-Port Style Line® decorator frame, Black.	<b>ISF4BK</b>
Black	<b>S1FP34BR</b>	6-Port Style Line® decorator frame, Black.	<b>ISF6BK</b>
Gray	<b>S1FP15GY</b>		
	<b>S1FP34GY</b>		

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SystemOne Flush Configuration Chart			Floor Boxes*						4" Core Hole Fire-Rated Poke-Throughs												
			Non-Metallic	Metal																	
Approved for use in the City of Chicago. (except S1PFB)																					
Sub-Plates			S1PFB	S1CFB	S1SFB	S1SFBCR	S1SFBAV	S1SFBAVCR	S1PTFIT	S1PT4X4FIT	S1PTAVFIT										
S1SP	Style Line® Decorator/GFCI		3	3.5	3.5	3.5	3.5	3.5	✓+	✗	✓										
S1SPDU	Duplex/Duplex		3	3.5	3.5	3.5	3.5	3.5	✓+	✗	✓										
S1SPDUSL	Duplex/Style Line® Decorator		3	3.5	3.5	3.5	3.5	3.5	✓+	✗	✓										
S1SP4X4 S1SP4X4PA S1SP4X4SYS	Hubbell 4 X 4 Panduit Mini-Com® 4 X 4 SYSTIMAX® 4 X 4		4	4	4	4	4	4	✗	✓+	✗										
S1SP4X4C S1SP4X4PAC S1SP4X4SYSC	Marked with "Controlled"																				
S1SPTL	Twist-Lock® Receptacle + Data												4	4	4	4	4	4	✗	✓+	✗
S1SP3IM	Hubbell DataCom + Power												5	5	5	5	5	5	✓	✗	✓+
S1SP4IM	Hubbell DataCom		3.5	3.5	3.5	3.5	3.5	3.5	✓	✗	✓+										
S1SPDU2IM	Hubbell DataCom + Duplex		5	5	5	5	5	5	✓	✗	✓+										
S1SPSL2IM	Hubbell DataCom + Style Line® Decorator		5	5	5	5	5	5	✓	✗	✓+										
S1SPFFxx (Carpet)	Furniture Feed Cover/Flange (Replace "xx" with BRS (Brass finish), AL (Aluminum finish), BL (Black) or GY (Gray).		3	3.5	3.5	3.5	3.5	3.5	✓	✗	✓+										
S1SPFFTxx (Tile)																					
S1SPEXT1	Extron® or FSR + Power		4	4	4	4	4	4	✓	✗	✓+										
S1SPEXT1C	Marked with "Controlled"																				
S1SPEXT2	Extron® or FSR + Power		4	4	4	4	4	4	✓	✗	✓+										
S1SPEXT2C	Marked with "Controlled"																				
S1SPEXT3	Extron® or FSR Single-Service		4.5	4.5	4.5	4.5	4.5	4.5	✓	✗	✓+										
S1SPEXT4	Extron® or FSR + Power		4	4	4	4	4	4	✓	✗	✓+										
S1SPEXT4C	Marked with "Controlled"																				
S1SPORT	Ortronics Series II® + Power		5	5	5	5	5	5	✓	✗	✓+										
S1SPORTC	Marked with "Controlled"																				
S1SPTRAC	Ortronics TracJack® + Power		5	5	5	5	5	5	✓	✗	✓+										
S1SPTRACC	Marked with "Controlled"																				
S1SPMAX	Siemon MAX® + Power		5	5	5	5	5	5	✓	✗	✓+										
S1SPMAXC	Marked with "Controlled"																				
S1SPAMM20	Active Multimedia + Flush Keystone + Power		5	5	5	5	5	5	✓	✗	✓+										
S1SPAMM20C	Marked with "Controlled"																				
S1CFCxx (Carpet)	SystemOne Floor Boxes and FRPTs use SystemOne Universal Covers (Replace "xx" with BRS (Brass finish), AL (Aluminum finish), BL (Black) or GY (Gray).		○ Signifies minimum depth of concrete pour in inches for Hubbell SystemOne Floor Boxes.						✓+	✓	✗										
S1TFCxx (Tile)									Recommended Floor Fitting	Alternative Floor Fitting	Not Compatible										

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## Flush Round Single or Multi-Service Non-Metallic Floor Boxes, for Use In Concrete Floors

### Dimensions Inches (mm)

Min. Depth of Pour	3.00" (76.2)
Capacity	100 cubic inches prior to cutting level to floor (19.5 cubic inches per inch of depth).
Dimensions – A	6.00" (152.4)
Dimensions – B	7.08" (179.8)
Dimensions – C	6.69" (169.9)
Dimensions – D	5.38" (136.5)
Hubs	(2) 1.0" and (2) 3/4" conduit hubs
Concrete Cover Included	✓
Closure/Reducer Plugs	(2) 1" plugs close off 1" hubs or reduce 1" to 3/4" (2) 3/4" plugs close off 3/4" hubs or reduce 3/4" to 1/2"

Note: UL File Number E92074, CSA File Number LR18416.

Description	Catalog Number
<b>Adapter</b> Required for all applications.	 <b>PFBA1A</b>
<b>Low Voltage Divider</b> Required for use with catalog number <b>PFB1</b> when used in multi-service applications. Accepts Hubbell standard duplex receptacles or 15A Twist-Lock® duplex receptacles (HBL4700 series).	 <b>PFBT1A</b>
<b>"Y" Adapter</b> 3/4 in. "Y" adapter to feed parallel runs of 3/4 in. conduit.	 <b>PFBYA1</b>
Pre-pour PVC stand increases <b>PFB1</b> box height 2.5 in. to 4.0 in. within the concrete pour.	 <b>PFBSTAND</b>

### Flush Round Covers and Flanges

#### Multi-Service Cover and Flange Assemblies

Includes floor box cover with duplex flaps, (2) 1/2 in. dia. low voltage feed through holes and matching carpet flange. 6.25 in. Diameter

**SF39253A**



Brass

**PFBCBRA**



Brown Non-Metallic

**PFBCBLA**



Black Non-Metallic

**PFBCGYA**



Gray Non-Metallic

**PFBCIA**



Ivory Non-Metallic

#### Single Service Covers

Brass  
Aluminum  
3.88 in. Dia.

**S3925**

**SA3925**



Duplex Flap

**S3725**

**SA3725**



Duplex Screw

**S2525**

**SA2525**



2 1/8" x 3/4" Combination

**S2725**

**SA2725**



2 1/8" x 1" Combination

**S2925**

**SA2925**



2 1/8" Single Receptacle

**S3525**

—



2 3/8" Single Receptacle

**S3325**

—



2 1/8" Single Receptacle (Terrazzo Floor)

#### Metal Carpet Flange

Use with single service covers for carpet applications. 6.25 in. Diameter

**S3082**



Brass

**SA3082**



Brushed Aluminum

#### Adapter Ring

Use with single service covers for tile applications.

**S5016**



Brass

**SA5016**



Aluminum

#### Furniture Feed Plate

Unpainted plate with 1 in. threaded opening.

**PFBP1**



Steel

### One Piece Brass Cover and Carpet Flange

Brass  
Aluminum  
6.25 in. Dia.

**SF3925**

**SFA3925**



Duplex Flap

**SF2525**

—



2 1/8" x 3/4" Combination

**SF2725**

—



2 1/8" x 1" Combination

**SF2925**

—



2 1/8" Single Receptacle

Note: Adapter ring S5016 is required for mounting SF series covers onto PFBA1A.

Dimensions in Inches (mm)



## Flush Round Single Service Metal Floor Boxes, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Cast Iron						Stamped Steel		
Collar Material:									
Brass	<b>B2536</b>	<b>B253641</b>	<b>B2503</b>	<b>B2506</b>	<b>B2506415</b>	<b>B2537</b>	<b>B2527</b>	<b>B2529</b>	
Aluminum	<b>BA2536</b>	<b>BA253641</b>	<b>BA2503</b>	<b>BA2506</b>	<b>BA2506415</b>	<b>BA2537</b>	<b>BA2527</b>	<b>BA2529</b>	
Min. Depth of Pour	3.25" (82.6)	3.75" (95.3)	4.75" (120.7)	3.00" (76.2)	4.00" (101.6)	3.00" (76.2)	3.00" (76.2)	3.00" (76.2)	
Adjustability	Fully	Fully	Fully	Fully	Fully	Fully	Fully	Fully	
Before Pour External Height Adjustment	1.25" (31.8)	-	-	-	-	-	1.25" (31.8)	1.25" (31.8)	
After Pour Internal Height Adjustment	.38" (9.5)	.63" (15.9)	.63" (15.9)	.38" (9.5)	.38" (9.5)	.38" (9.5)	.38" (9.5)	.38" (9.5)	
Cubic Inch (cm3) Capacity	33.0 cu. in. (540.7 cm3)	36.0 cu. in. (590.0 cm3)	50.8 cu. in. (832.5 cm3)	30.0 cu. in. (491.6 cm3)	54.0 cu. in. (884.9 cm3)	37.3 cu. in. (611.2 cm3)			
Dimensions – A	3.05" (77.5)	3.75" (95.3)	4.75" (120.7)	2.87" (72.9)	3.88" (98.6)	2.91" (73.9)			
Dimensions – B	4.84" (122.9)	5.00" (127.0)	5.00" (127.0)	4.84" (122.9)	6.00" (152.4)	6.00" (152.4)			
Dimensions – C	4.84" (122.9)	4.63" (117.6)	4.66" (118.4)	4.84" (122.9)	4.81" (122.2)	4.81" (122.2)			
Dimensions – D	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)	4.19" (106.4)			
Threaded Access Holes	(4) 3/4" (4) 1"	(4) 3/4"	(4) 1 1/4" (4) 1 1/2"	(4) 3/4"	-	-			
Knockouts – Sides	-	-	-	-	(1) 1" & (1) 3/4"	(2) 1/2" & (1) 3/4"			
Knockouts – Ends	-	-	-	-	(1) 1 1/4" & (1) 1/2"	(1) 1/2" & (1) 3/4"			
Knockouts – Bottom	-	-	-	-	(3) 1/2" & (2) 3/4"	(3) 1/2" & (2) 3/4"			
Concrete Cover Included	✓	✓	✓	✓	✓	✓			
Closure Plugs Included	✓	✓	✓	✓	✓	-			

Note: UL File Number E31999.  
CSA File Number LR18416.  
Suitable for single service applications only.

### Single Service Covers

Material	<b>S3925</b> <b>SA3925</b>	<b>S3725</b> <b>SA3725</b>	<b>S2525</b> <b>SA2525</b>	<b>S2725</b> <b>SA2725</b>	<b>S2925</b> <b>SA2925</b>	<b>S3525</b> -	<b>S3325</b> -
Brass							
Aluminum							
3.88 in. Dia.	Duplex Flap	Duplex Screw	2 1/8" x 3/4" Combination	2 1/8" x 1" Combination	2 1/8" Single Receptacle	2 3/8" Single Receptacle	2 1/8" Single Receptacle (Terrazzo Floor)

### Carpet Flanges

Material	<b>S3182</b>	<b>SA3182</b>	<b>S3079</b>	<b>S3082</b>	<b>SA3082</b>
5.25 in. Dia.					
	Brass	Brushed Aluminum	Clear Polycarbonate	Brass	Brushed Aluminum
6.25 in. Dia.					

### One Piece Brass Cover and Carpet Flange

Material	<b>SF3925</b> <b>SFA3925</b>	<b>SF2525</b> -	<b>SF2725</b> -	<b>SF2925</b> -
Brass				
Aluminum				
6.25 in. Dia.	Duplex Flap	2 1/8" x 3/4" Combination	2 1/8" x 1" Combination	2 1/8" Single Receptacle

Dimensions in Inches (mm)

## Flush Rectangular Non-Metallic Floor Boxes with Non-Metallic Covers

### Dimensions Inches (mm)

Style	1-Gang	2-Gang	3-Gang
	<p><b>PFBRG1*</b></p>	<p><b>PFBRG2</b></p>	<p><b>PFBRG3</b></p>
Min. Depth of Pour	3.00" (76.2)	3.00" (76.2)	3.00" (76.2)
Adjustability	Fully	Fully	Fully
Cubic Inch (cm3) Capacity Per Gang	14.3 cu. in. (234.3 cm3) per 1" depth	14.3 cu. in. (234.3 cm3) per 1" depth	14.3 cu. in. (234.3 cm3) per 1" depth
Dimensions – A	6.00" (152.4)	6.00" (152.4)	6.00" (152.4)
Dimensions – B	3.60" (91.4)	6.82" (173.2)	10.04" (255.0)
Dimensions – C	5.42" (137.7)	5.42" (137.7)	5.42" (137.7)
Dimensions – D	6.90" (175.3)	6.90" (175.3)	6.90" (175.3)
Dimensions – E	5.44" (138.2)	8.66" (220.0)	11.87" (301.5)
Hubs	(4) 1¼"	(6) 1¼"	(8) 1¼"
Reducers	(4) 1" to ¾" and (4) 1¼" to 1"	(6) 1" to ¾" and (6) 1¼" to 1"	(8) 1" to ¾" and (8) 1¼" to 1"
Concrete Cover Included	✓	✓	✓
Closure Plugs Included	✓	✓	✓
Removable LV Barrier	–	✓	✓

Note: UL File Number E92074.

\*Suitable for single service applications only.

## Flush Rectangular Non-Metallic Covers and Flanges\*

### Required Components for Carpet Applications

Carpet Flanges				Cover with Duplex and Style Line® decorator inserts included		
Number of Gangs	1-Gang	2-Gang	3-Gang	One Required per Gang		
Dimensions	6.00" x 4.88"	6.00" x 8.13"	6.00" x 11.35"	4.15" x 2.97"		
Black	<b>PFBRFBL1</b>	<b>PFBRFBL2</b>	<b>PFBRFBL3</b>	<b>PFBR826BLA</b>		
Brown	<b>PFBRFBR1</b>	<b>PFBRFBR2</b>	<b>PFBRFBR3</b>	<b>PFBR826BRA</b>		
Gray	<b>PFBRFGY1</b>	<b>PFBRFGY2</b>	<b>PFBRFGY3</b>	<b>PFBR826GYA</b>		
Ivory	<b>PFBRFI1</b>	<b>PFBRFI2</b>	<b>PFBRFI3</b>	<b>PFBR826IA</b>		

### Required Components for Tile Applications

Mounting Collar		Cover Frame		Cover with Duplex and Style Line® decorator inserts included		
One Required per Gang		One Required per Gang		One Required per Gang		
		Dim. 4.47" x 3.25"		4.15" x 2.97"		
<b>PFBRMC</b>	<b>PFBRFRA</b>	<b>PFBR826GYA</b>				
		Cover	Duplex Insert	Style Line® Decorator Insert		

Note: \*Flush rectangular non-metallic covers and flanges are UL listed only. Not CSA certified.

Dimensions in Inches (mm)

## Flush Rectangular Non-Metallic Floor Boxes with Metal Covers

### Dimensions Inches (mm)

Style	1-Gang	2-Gang	3-Gang
	<p><b>PFBRG1*</b></p>	<p><b>PFBRG2</b></p>	<p><b>PFBRG3</b></p>
Min. Depth of Pour	3.00" (76.2)	3.00" (76.2)	3.00" (76.2)
Adjustability	Fully	Fully	Fully
Cubic Inch (cm3) Capacity Per Gang	14.3 cu. in. (234.3 cm3) per 1" depth	14.3 cu. in. (234.3 cm3) per 1" depth	14.3 cu. in. (234.3 cm3) per 1" depth
Dimensions – A	6.00" (152.4)	6.00" (152.4)	6.00" (152.4)
Dimensions – B	3.60" (91.4)	6.82" (173.2)	10.04" (255.0)
Dimensions – C	5.42" (137.7)	5.42" (137.7)	5.42" (137.7)
Dimensions – D	6.90" (175.3)	6.90" (175.3)	6.90" (175.3)
Dimensions – E	5.44" (138.2)	8.66" (220.0)	11.87" (301.5)
Hubs	(4) 1 1/4"	(6) 1 1/4"	(8) 1 1/4"
Reducers	(4) 1" to 3/4" and (4) 1 1/4" to 1"	(6) 1" to 3/4" and (6) 1 1/4" to 1"	(8) 1" to 3/4" and (8) 1 1/4" to 1"
Concrete Cover Included	✓	✓	✓
Closure Plugs Included	✓	✓	✓
Removable LV Barrier	-	✓	✓

Note: UL File Number E92074.

\*Suitable for single service applications only.

### Flush Rectangular Metal Covers and Flanges

#### Required Components for Carpet and Tile Applications

Adapter Collar (One required per gang)	Adapter Frame with Grounding Lug (One required per gang) Dim. 4.36" x 3.20"
Gray <b>PFBRAC</b>	Brass <b>S5017G</b> Aluminum <b>SA5017G</b>



### Flush Rectangular Metal Covers and Flanges

#### Required Components for Carpet and Tile Applications

Adapter Collar (One required per gang)
Gray <b>PFBRAC</b>



### Carpet Flanges (Not Required for Tile Applications)

#### Tapered Flange

Number of Gangs	1-Gang	2-Gang	3-Gang
Dimensions	6.00" x 4.85"	6.00" x 8.13"	6.00" x 11.34"
Brass	<b>SB3083</b>	<b>SB3084</b>	<b>SB3085</b>
Aluminum	<b>SA3083</b>	<b>SA3084</b>	<b>SA3085</b>



### Rectangular Flanges (Required)

Number of Gangs	1-Gang	2-Gang	3-Gang
Dimensions	6.00" x 4.85"	6.00" x 8.13"	6.00" x 11.34"
Brass	<b>SB3083W</b>	<b>SB3084W</b>	<b>SB3085W</b>
Aluminum	<b>SA3083W</b>	<b>SA3084W</b>	<b>SA3085W</b>



### Covers – One Required per Gang

	<b>S3825</b> <b>SA3825</b>	<b>S3625</b> <b>SA3625</b>	<b>S3826</b> <b>SA3826</b>	<b>S2425</b> <b>SA2425</b>	<b>S2625</b> <b>SA2625</b>	<b>S2825</b> -	<b>S3813</b> <b>SA3813</b>
Brass							
Aluminum							
Dimensions	4.15" x 2.99"						
	Duplex Flap	Duplex Screw	Style Line® Decorator Opening	2 1/8" x 3/4" Combination	2 1/8" x 1" Combination	2 1/8" Single Receptacle	Blank

Dimensions in Inches (mm)

## Flush Rectangular Cast Iron Floor Boxes, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Cast Iron													
	1-Gang Deep		2-Gang Deep		3-Gang Deep		1-Gang Shallow		2-Gang Shallow		3-Gang Shallow			
Collar Material:	<b>B2436*</b> <b>B243641*</b>		<b>B4233</b> <b>B423341</b>		<b>B4333</b> <b>B433361</b>		<b>B2437*</b> <b>BA2437*</b>		<b>B2414*</b> <b>BA2414*</b>		<b>B4214</b> <b>BA4214</b>		<b>B4314</b> <b>BA4314</b>	
	<b>BA2436*</b> <b>BA243641*</b>		<b>BA4233</b> <b>BA423341</b>		<b>BA4333</b> <b>BA433361</b>									
Min. Depth of Pour	3.75" (95.3)		3.75" (95.3)		3.75" (95.3)		3.00" (76.2)		2.00" (50.8)		2.00" (50.8)		2.00" (50.8)	
Adjustability	Fully		Fully		Fully		Fully		Semi		Semi		Semi	
Before Pour External Height Adjustment	1.25" (31.8)		1.25" (31.8)		1.25" (31.8)		1.25" (31.8)		1.25" (31.8)		1.25" (31.8)		1.25" (31.8)	
After Pour Internal Height Adjustment	.38" (9.5)		.63" (15.9)		.63" (15.9)		.38" (9.5)		-		-		-	
Cubic Inch (cm <sup>3</sup> ) Capacity Per Gang	33.0 cu. in. (540.7 cm <sup>3</sup> )		36.5 cu. in. (598.1 cm <sup>3</sup> )		34.8 cu. in. (570.3 cm <sup>3</sup> )		30.0 cu. in. (491.7 cm <sup>3</sup> )		16.0 cu. in. (262.2 cm <sup>3</sup> )		16.0 cu. in. (262.2 cm <sup>3</sup> )		16.0 cu. in. (262.2 cm <sup>3</sup> )	
Dimensions – A	3.20" (81.3)		3.38" (85.9)		3.38" (85.9)		2.90" (73.7)		2.00" (50.8)		2.00" (50.8)		2.00" (50.8)	
Dimensions – B	4.69" (119.1)		4.84" (122.9)		4.90" (122.5)		4.69" (119.1)		5.46" (138.7)		5.46" (138.7)		5.46" (138.7)	
Dimensions – C	4.69" (119.1)		8.06" (204.7)		11.41" (289.8)		4.69" (119.1)		4.19" (106.4)		7.49" (190.2)		10.7" (271.8)	
Dimensions – D	4.36" (110.7)		4.36" (110.7)		4.36" (110.7)		4.36" (110.8)		4.38" (111.3)		4.38" (111.3)		4.38" (111.3)	
Dimensions – E	3.19" (81.0)		6.42" (163.1)		9.64" (244.9)		3.20" (81.3)		3.19" (81.0)		6.38" (162.1)		9.56" (242.8)	
Threaded Access Holes	(4) 3/4" (4) 1"		(6) 3/4" (4) 1" & (2) 3/4"		(8) 3/4" (6) 1" & (2) 3/4"		(4) 3/4"		(2) 3/4"		(4) 3/4"		(6) 3/4"	
Concrete Cover Included	✓		✓		✓		✓		✓		✓		✓	
Closure Plugs Included	✓		✓		✓		✓		✓		✓		✓	
Removable LV Barrier	-		✓		✓		-		-		-		-	

Note: UL File Number E92074.  
CSA File Number LR18416.  
\*Suitable for single service applications only.

## Carpet Flanges

Tapered Flange		1-Gang		2-Gang		3-Gang	
Number of Gangs	Dimensions	6.00" x 4.85"		6.00" x 8.13"		6.00" x 11.34"	
Brass		<b>SB3083</b>		<b>SB3084</b>		<b>SB3085</b>	
Aluminum		<b>SA3083</b>		<b>SA3084</b>		<b>SA3085</b>	
Clear Polycarbonate		<b>S3083</b>		<b>S3084</b>		<b>S3085</b>	

## Covers – One Required per Gang

Brass	<b>S3825</b>	<b>S3625</b>	<b>S3826</b>	<b>S2425</b>	<b>S2625</b>	<b>S2825</b>	<b>S3813</b>
Aluminum	<b>SA3825</b>	<b>SA3625</b>	<b>SA3826</b>	<b>SA2425</b>	<b>SA2625</b>	–	<b>SA3813</b>
Dimensions	4.15" x 2.99"						
	Duplex Flap	Duplex Screw	Style Line® Decorator Opening	2 1/8" x 3/4" Combination	2 1/8" x 1" Combination	2 1/8" Single Receptacle	Blank

Dimensions in Inches (mm)

## Flush Rectangular Stamped Steel Floor Boxes, for Use In Concrete Floors

### Dimensions Inches (mm)

Style	Stamped Steel							
	1-Gang Deep	2-Gang Deep	3-Gang Deep	1-Gang Shallow	2-Gang Shallow	3-Gang Shallow	1-Gang Deep	1-Gang Shallow
								
Collar Material: Brass Aluminum	<b>B2431*</b> <b>BA2431*</b>	<b>B2432</b> <b>BA2432</b>	<b>B2433</b> <b>BA2433</b>	<b>B2421*</b> <b>BA2421*</b>	<b>B2422</b> <b>BA2422</b>	<b>B2423</b> <b>BA2423</b>	<b>B2427*</b> <b>BA2427*</b>	<b>B2429*</b> <b>BA2429*</b>
Min. Depth of Pour	3.75" (95.3)	3.75" (95.3)	3.75" (95.3)	2.75" (69.9)	2.75" (69.9)	2.75" (69.9)	4.00" (101.6)	3.00" (76.2)
Adjustability	Fully	Fully	Fully	Fully	Fully	Fully	Fully	Fully
Before Pour External Height Adjustment	1.25" (31.8)	1.25" (31.8)	1.25" (31.8)	1.25" (31.8)	1.25" (31.8)	1.25" (31.8)	1.25" (31.8)	1.25" (31.8)
After Pour Internal Height Adjustment	.50" (12.7)	.50" (12.7)	.50" (12.7)	.50" (12.7)	.50" (12.7)	.50" (12.7)	.38" (9.5)	.38" (9.5)
Cubic Inch (cm3) Capacity Per Gang	60.0 cu. in. (983.2 cm3)	52.8 cu. in. (865.2 cm3)	50.8 cu. in. (832.5 cm3)	39.5 cu. in. (647.3 cm3)	35.0 cu. in. (573.5 cm3)	34.0 cu. in. (557.2 cm3)	54.0 cu. in. (884.9 cm3)	37.3 cu. in. (611.2 cm3)
Dimensions – A	3.72" (94.5)	3.72" (94.5)	3.72" (94.5)	2.74" (69.6)	2.74" (69.6)	2.74" (69.6)	3.90" (99.1)	2.81" (71.4)
Dimensions – B	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)	4.81" (122.2)
Dimensions – C	6.00" (152.4)	9.25" (235.0)	12.50" (317.5)	6.00" (152.4)	9.25" (235.0)	12.50" (317.5)	6.00" (152.4)	6.00" (152.4)
Dimensions – D	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.3)	4.38" (111.2)	4.38" (111.2)
Dimensions – E	3.19" (81.0)	6.44" (163.6)	9.67" (245.6)	3.19" (81.0)	6.44" (163.6)	9.67" (245.6)	3.19" (81.0)	3.19" (81.0)
Knockouts – Sides	(1) 3/4", 1", 1 1/4"	(2) 3/4", 1", 1 1/4"	(3) 3/4", 1", 1 1/4"	(2) 1/2", (1) 3/4"	(4) 1/2", (1) 3/4"	(6) 1/2", (1) 3/4"	(1) 1/2", (1) 1 1/4"	(2) 1/2", (1) 3/4"
Knockouts – Ends	(1) 3/4", 1", 1 1/4"	(1) 3/4", 1", 1 1/4"	(1) 3/4", 1", 1 1/4"	(1) 1/2", (1) 3/4"	(2) 1/2", (1) 3/4"	(2) 1/2", (1) 3/4"	(1) 3/4", (1) 1"	(1) 1/2", (1) 3/4"
Knockouts – Bottom	(2) 3/4", 1", 1 1/4"	(4) 3/4", 1", 1 1/4"	(6) 3/4", 1", 1 1/4"	(2) 3/4", 1", 1 1/4"	(4) 3/4", 1", 1 1/4"	(6) 3/4", 1", 1 1/4"	(3) 1/2", (2) 3/4"	(3) 1/2", (2) 3/4"
Concrete Cover Included	✓	✓	✓	✓	✓	✓	✓	✓
Closure Plugs Included	-	-	-	-	-	-	-	-
Removable LV Barrier	-	✓	✓	-	✓	✓	-	-

Note: UL File Number E92074.

CSA File Number LR18416.








\*Suitable for single service applications only.

## Carpet Flanges

### Tapered Flange

Number of Gangs	1-Gang	2-Gang	3-Gang
Dimensions	6.00" x 4.85"	6.00" x 8.13"	6.00" x 11.34"
Brass	<b>SB3083</b>	<b>SB3084</b>	<b>SB3085</b>
Aluminum	<b>SA3083</b>	<b>SA3084</b>	<b>SA3085</b>
Clear Polycarbonate	<b>S3083</b>	<b>S3084</b>	<b>S3085</b>

## Covers – One Required per Gang

	<b>S3825</b> <b>SA3825</b>	<b>S3625</b> <b>SA3625</b>	<b>S3826</b> <b>SA3826</b>	<b>S2425</b> <b>SA2425</b>	<b>S2625</b> <b>SA2625</b>	<b>S2825</b> -	<b>S3813</b> <b>SA3813</b>
Brass							
Aluminum							
Dimensions	4.15" x 2.99"						
	Duplex Flap	Duplex Screw	Style Line® Decorator Opening	2 1/8" x 3/4" Combination	2 1/8" x 1" Combination	2 1/8" Single Receptacle	Blank

Dimensions in Inches (mm)



## Flush Floor Boxes for Wooden Floors

### Dimensions Inches (mm)

Style		Rectangular Stamped Steel			Round Cast Iron	
		1-Gang	2-Gang	3-Gang	1-Gang	1-Gang
		<b>B2481*</b>	<b>B2482</b>	<b>B2483</b>	<b>B2588*</b>	<b>B2588275*</b>
Adjustability		Semi	Semi	Semi	Non	Non
Cubic Inch (cm <sup>3</sup> ) Capacity Per Gang		42.0 cu. in. (658.3 cm <sup>3</sup> )	42.5 cu. in. (696.5 cm <sup>3</sup> )	42.5 cu. in. (696.5 cm <sup>3</sup> )	18.5 cu. in. (303.2 cm <sup>3</sup> )	18.5 cu. in. (303.2 cm <sup>3</sup> )
Dimensions – A		3.13" (79.5)	3.13" (79.5)	3.13" (79.5)	3.65" (92.7)	3.65" (92.7)
Dimensions – B		4.50" (114.3)	4.50" (114.3)	4.50" (114.3)	3.22" (81.8)	3.22" (81.8)
Dimensions – C		3.20" (81.3)	6.42" (163.1)	9.64" (244.9)	4.09" (103.9)	4.09" (103.9)
Threaded Access Holes		–	–	–	Bottom (2) ½"	Sides (2) ¾" Bottom (2) ½"
Knockouts – Sides		(1) ½", ¾", 1"	(2) ½", ¾", 1"	(3) ½", ¾", 1"	–	–
Knockouts – Ends		–	–	–	–	–
Knockouts – Bottom		(1) ½" - 1¼"	(2) ½" - 1¼"	(3) ½" - 1¼"	–	–
Debris Cover Included		✓	✓	✓	–	–
Closure Plugs Included		–	–	–	✓	✓
Removable LV Barrier		–	✓	✓	–	–

Note: UL File Number E31999. CSA File Number LR18416.

\*Suitable for single service applications only.

### Rectangular Flanges (Required)

	<b>SB3083W</b>	<b>SB3084W</b>	<b>SB3085W</b>
Brass	<b>SA3083W</b>	<b>SA3084W</b>	<b>SA3085W</b>
Aluminum			
No. of Gangs	1-Gang	2-Gang	3-Gang
Dimensions	6.00" x 4.85"	6.00" x 8.13"	6.00" x 11.34"

### Round Flanges

<b>S3182</b>	<b>S3082</b>
<b>SA3182</b>	<b>SA3082</b>
5.25" Dia.	6.25" Dia.

### Round Covers (3.88" Dia.)

<b>S3925</b>	<b>S3725</b>	<b>S2525</b>
<b>SA3925</b>	<b>SA3725</b>	<b>SA2525</b>
Duplex Flap	Duplex Screw	2 1/8" x 3/4" Comb.

### Covers – One Required per Gang

	<b>S3825</b>	<b>S3625</b>	<b>S3826</b>	<b>S2425</b>
Brass	<b>SA3825</b>	<b>SA3625</b>	<b>SA3826</b>	<b>SA2425</b>
Aluminum				
Dimensions				
4.15" x 2.99"				
	Duplex Flap	Duplex Screw	Style Line® Decorator Opening	2 1/8" x 3/4" Combination

### Round Covers

	<b>S2725</b>	<b>S2925</b>	<b>S3525</b>	<b>S3325</b>
Brass	<b>SA2725</b>	<b>SA2925</b>	–	–
Aluminum				
3.88" Dia.				
	2 1/8" x 1" Comb.	2 1/8" Single Receptacle	2 3/8" Single Receptacle	2 1/8" Single Rec. (Terrazzo Floor)

	<b>S2625</b>	<b>S2825</b>	<b>S3425</b>	<b>S3813</b>
Brass	<b>SA2625</b>	–	–	<b>SA3813</b>
Aluminum				
Dimensions				
4.15" x 2.99"				
	2 1/8" x 1" Combination	2 1/8" Single Receptacle	2 3/8" Single Receptacle	Blank

### One Piece Brass Cover and Carpet Flange

	<b>SF3925</b>	<b>SF2525</b>	<b>SF2725</b>	<b>SF2925</b>
Brass	<b>SFA3925</b>	–	–	–
Aluminum				
6.25" Dia.				
	Duplex Flange	2 1/8" x 3/4" Combination	2 1/8" x 1" Combination	2 1/8" Single Receptacle

Dimensions in Inches (mm)

## Floor Box Cover to Receptacle Compatibility Chart

Cover Style		Terrazzo (2 1/2")	2 3/4"	2 1/2"	Duplex Flap	Duplex Plug	Style Line®
Round		<b>S3325</b>	<b>S3525</b>	<b>S(A)2925</b> <b>S(A)2725</b> <b>S(A)2525</b>	<b>S(A)3925</b>	<b>S(A)3725</b>	
Rectangular			<b>S3425</b>	<b>S2825</b> <b>S(A)2625</b> <b>S(A)2425</b>	<b>S(A)3825</b>	<b>S(A)3625</b>	<b>S(A)3826</b>
Rating	NEMA Config.						
2P, 3W 15A, 125V	5-15R	<b>HBL5251</b> <b>HBL5261</b> <b>IG5261</b>	<b>HBL5251</b> <b>HBL5261</b> <b>IG5261</b>	<b>HBL5251</b> <b>HBL5261</b> <b>IG5261</b>	<b>5252AB</b> <b>5262B</b> <b>CR5252IG</b> <b>HBL5252</b> <b>HBL5262</b> <b>IG5262</b>	<b>5252AB</b> <b>5262B</b> <b>CR5252IG</b> <b>HBL5252</b> <b>HBL5262</b> <b>IG5262</b>	<b>HBL2152</b> <b>IG2152</b> <b>GFRST15</b> <b>HBL5260SA</b> <b>HBL5262SA</b>
2P, 3W 15A, 125V	L5-15R	<b>HBL4710</b> <b>IG4710</b>	<b>HBL4710</b> <b>IG4710</b>	<b>HBL4710</b> <b>IG4710</b>	<b>HBL4700</b> <b>IG4700A</b> <b>HBL4792</b> <b>HBL4794</b> <b>HBL4795</b>	<b>HBL4700</b> <b>IG4700A</b> <b>HBL4792</b> <b>HBL4794</b> <b>HBL4795</b>	
2P, 3W 15A, 250V	6-15R	<b>HBL5661</b> <b>IG5661</b>	<b>HBL5661</b> <b>IG5661</b>	<b>HBL5661</b> <b>IG5661</b>	<b>HBL5652</b> <b>HBL5662</b> <b>IG5662</b>	<b>HBL5652</b> <b>HBL5662</b> <b>IG5662</b>	
2P, 3W 15A, 250V	L6-15R	<b>HBL4560</b> <b>IG4560</b>	<b>HBL4560</b> <b>IG4560</b>	<b>HBL4560</b> <b>IG4560</b>	<b>HBL4550</b> <b>IG4550A</b>	<b>HBL4550</b> <b>IG4550A</b>	
2P, 3W 15A, 277V	7-15R				<b>HBL5302</b>	<b>HBL5302</b>	
2P, 3W 15A, 277V	L7-15R	<b>HBL4760</b>	<b>HBL4760</b>	<b>HBL4760</b>	<b>HBL4750</b>	<b>HBL4750</b>	
2P, 3W 20A, 125V	5-20R	<b>HBL5361</b> <b>IG5361</b>	<b>HBL5361</b> <b>IG5361</b>	<b>HBL5361</b> <b>IG5361</b>	<b>5352AB</b> <b>5362B</b> <b>CR5352IG</b> <b>HBL5352</b> <b>HBL5362</b> <b>IG5362</b>	<b>5352AB</b> <b>5362B</b> <b>CR5352IG</b> <b>HBL5352</b> <b>HBL5362</b> <b>IG5362</b>	<b>HBL2162</b> <b>IG2162</b> <b>GFRST20</b> <b>HBL5360SA</b> <b>HBL5362SA</b>
2P, 3W 20A, 125V	5-20R				<b>HBL5392</b>	<b>HBL5392</b>	
2P, 3W 20A, 125V	L5-20R	<b>HBL2310</b> <b>IG2310</b>	<b>HBL2310</b> <b>IG2310</b>	<b>HBL2310</b> <b>IG2310</b>			
2P, 3W 20A, 250V	6-20R	<b>HBL5461</b> <b>IG5461</b>	<b>HBL5461</b> <b>IG5461</b>	<b>HBL5461</b> <b>IG5461</b>	<b>HBL5462</b> <b>IG5462</b>	<b>HBL5462</b> <b>IG5462</b>	
2P, 3W 20A, 250V	L6-20R	<b>HBL2320</b> <b>IG2320</b>	<b>HBL2320</b> <b>IG2320</b>	<b>HBL2320</b> <b>IG2320</b>			
2P, 3W 30A, 125V	L5-30R	<b>HBL2610</b> <b>IG2610</b>	<b>HBL2610</b> <b>IG2610</b>	<b>HBL2610</b> <b>IG2610</b>			
2P, 3W 30A, 250V	L6-30R	<b>HBL2620</b> <b>IG2620</b>	<b>HBL2620</b> <b>IG2620</b>	<b>HBL2620</b> <b>IG2620</b>			
3P, 4W, 20A 125/250V	14-20R	<b>HBL8410</b>	<b>HBL8410</b>	<b>HBL8410</b>			
	L14-20R	<b>HBL2410</b> <b>IG2410</b>	<b>HBL2410</b> <b>IG2410</b>	<b>HBL2410</b> <b>IG2410</b>			
3P, 4W, 20A 3Ø 250V	15-20R	<b>HBL8420</b>	<b>HBL8420</b>	<b>HBL8420</b>			
	L15-20R	<b>HBL2420</b> <b>IG2420</b>	<b>HBL2420</b> <b>IG2420</b>	<b>HBL2420</b> <b>IG2420</b>			
3P, 4W, 30A 125/250V	L14-30R	<b>HBL2710</b> <b>IG2710</b>	<b>HBL2710</b> <b>IG2710</b>	<b>HBL2710</b> <b>IG2710</b>			
3P, 4W, 30A 3Ø 250V	L15-30R	<b>HBL2720</b> <b>IG2720</b>	<b>HBL2720</b> <b>IG2720</b>	<b>HBL2720</b> <b>IG2720</b>			
3P, 4W, 30A 3Ø 600V	L17-30R	<b>HBL2740</b>	<b>HBL2740</b>	<b>HBL2740</b>			
4P, 5W, 20A 3ØY 120/208V	L21-20R	<b>HBL2510</b> <b>IG2510</b>	<b>HBL2510</b> <b>IG2510</b>	<b>HBL2510</b> <b>IG2510</b>			
4P, 5W, 20A 3ØY 347/600V	L23-20R	<b>HBL2530</b>	<b>HBL2530</b>	<b>HBL2530</b>			
4P, 5W, 30A 3ØY 120/208V	L21-30R	<b>HBL2810</b> <b>IG2810</b>	<b>HBL2810</b> <b>IG2810</b>	<b>HBL2810</b> <b>IG2810</b>			
4P, 5W, 30A 3ØY 347/600V	L23-30R	<b>HBL2830</b>	<b>HBL2830</b>	<b>HBL2830</b>			



## Accessories

Protective Ring for 2½" Threaded Covers



**S3061**

## Problem Solvers and Replacement Components

### Protective Ring for 2½ Inch Threaded Covers

Description	Catalog Number
Provides mechanical and wet mop protection for plugs and receptacles (brass).	<b>S3061</b>

Theater Seating Floor Box



**F3185**

## Theater Seating Floor Box

Description	Catalog Number
The theater seating floor box is nonadjustable and provides a ¼ in. threaded hub for conduit connection to theater aisle lights. It permits opening of the enclosure for wiring without disturbing above floor connections. Other features include a cast iron box with a corrosion-resistant finish and a blank steel cover. Knockouts: (¼ in. surface, ¼ in. sides, ¼ in. bottom) 18.80 cu. in. (380 cubic cm).	<b>F3185</b>

Adjustable Tops (Brass)



**F1339**

**F1539**

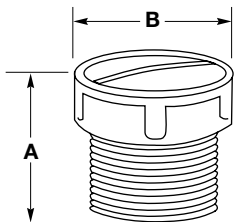
## Adjustable Tops (Brass)

### Brass Outlet Fittings for Conduit Systems

Future requirements for floor outlets may be accommodated by systematically studding the floor with these fittings, all radiating from one or more floor boxes, from which any changes or additions may be subsequently made by the pulling of wires from box to the outlet. Adjustment tops are male connections to be mounted on elbow or tee fittings. They provide a pre-pour adjustment and an available connection for above-floor service heads.

Description	A	B	Catalog Number
¾ in. threaded conduit size (male).	1.25" (31.8)	1.44" (36.6)	<b>F1339</b>
1 in. threaded conduit size (male).	1.31" (33.3)	1.75" (44.5)	<b>F1539</b>

*Note: Adjustment: ¾ in. and 1 in. fittings permit ½ in. vertical adjustment.*



**Adjustable Tops**

## Coupling (Brass)

Couplings are utilized for straight conduit connections when a floor box is not required. The conduit stub is brought to within approximately 1¼ in. of the planned surface, and the coupling is mounted and adjusted prior to the concrete pour. Standard service heads may be mounted to the couplings as required.

Description	A	B	Catalog Number
¾ in. threaded conduit size (female).	1.44" (36.6)	1.25" (31.8)	<b>F1340</b>

Coupling (Brass)



**F1340**

Dimensions in Inches (mm)

# Floor Boxes

## Accessories

Experiencing a problem? Let Hubbell accessories help solve it. Hubbell stacking (adjustable) collars are the answer if the box is set too low. Need a replacement? Choose from a full line of replacement covers and fittings. Hubbell accessories also help you with the protection you need for plugs and receptacles.

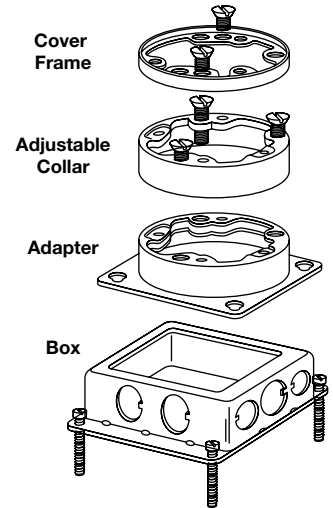
## Problem Solvers and Replacement Components

### Stacking (Adjustable) Collars and Frames

Designed to be used if floor box is set too low beneath the floor surface or the adjustable collar and/or adapter on the box is damaged.

If the box number is...	Extension Value	Use Collar Number
B2429, B2427, B2436 or B2437	.81" (20.5)	<b>C2400*</b>
B2503, B2506	1.06" (26.9)	<b>C2504*</b>
B2529, B2536, B2527 or B2537	1.06" (26.9)	<b>C2500*</b>
B4233	1.03" (26.2)	<b>C4200*</b>
B4333	1.03" (26.2)	<b>C4300*</b>

Note: \*Only available as sets (collars and adapters). In cases where the adapter on the floor box is not damaged, and only stacking is required, discard the adapter and use only the collar. The adjustable collars listed above can be stacked as required to reach the floor surface. Longer screws will be required if more than one collar is stacked (screws not provided). These screws are commercially available. Flat head #12-24 UNC machine screw x (approx. length). Minor Upward Adjustments: Round or Rectangular cover frames (trim rings) may be stacked if the floor box is only slightly recessed below the floor surface.



Replacement Adjustable Collar



Replacement Cover Frames



## Replacement Components for Floor Box Covers and Fittings

Box Type	Dimension	Extension Value	Catalog Number	
			Brass	Aluminum
Round	4.19" (106.4) diameter	.31" (7.9)	<b>S5016</b>	<b>SA5016</b>
Rectangular	3.19" (81.0) x 4.38" (111.2)	.31" (7.9)	<b>S5017A</b>	<b>SA5017A</b>
Rectangular, grounding	3.19" (81.0) x 4.38" (111.2)	.31" (7.9)	<b>S5017G</b>	<b>SA5017G</b>

## Crown Plugs

Description	Used in the following covers	Catalog Number	
		Brass	Aluminum
¾" thread size.	S2525, SA2525, S881, S2555, S2530, S2425, SA2425, SF2525	<b>S5012</b>	<b>SA5012</b>
1" thread size.	S2725, SA2725, S2755, S2730, S2625, SA2625, SF2725	<b>S5013</b>	<b>SA5013</b>

Crown Plugs



## Flush Cap Rings

Description	Used in the following covers	Catalog Number	
		Brass	Aluminum
2½" threaded plug with ¾" thread size opening.	S2525, SA2525, S881, S2555, S2530, S2425, SA2425, SF2525	<b>S5010</b>	<b>SA5010</b>
2½" threaded plug with 1" thread size opening.	S2725, SA2725, S2755, S2730, S2625, SA2625, SF2725	<b>S5025</b>	<b>SA5025</b>

Flush Cap Rings



## Flush Plugs

Description	Used in the following covers	Catalog Number	
		Brass	Aluminum
¾" I.P.S. thread size.	F1339, F1340	<b>S5002</b>	-
1" I.P.S. thread size.	F1539	<b>S5003</b>	-
1½" fine thread size.	S3725, SA3725, S3625, SA3625	<b>S5007</b>	<b>SA5007</b>
2½" fine thread size.	S2925, SA2925, S88, S2930, S2955, SF2925, S2825	<b>S5020</b>	<b>SA5020</b>
2¾" fine thread size.	S3525, S3425	<b>S5030</b>	-

Flush Plugs



Dimensions in Inches (mm)

## Fire-Classified Floor Box Solutions



Hubbell's fire-classified floor boxes are an excellent solution when there is not enough capacity in a poke through and the decking must be penetrated for electrical installations. Available in seven or eleven gang versions, our fire rated kits are compatible with our standard CFB7G6 and CFB11G6 series floor boxes.

### Fire-Classified Floor Box Kits

- Preserves 2 or 3 hour fire classified floor rating
- Approved for installations using either light or normal weight concrete
- UL 514 and UL 263 Compliant
- Variety of ADA compliant cover choices for most floor types
- Four 1½ inch box bottom entry conduits

### Fire-Resistant Floor Box Kit Includes

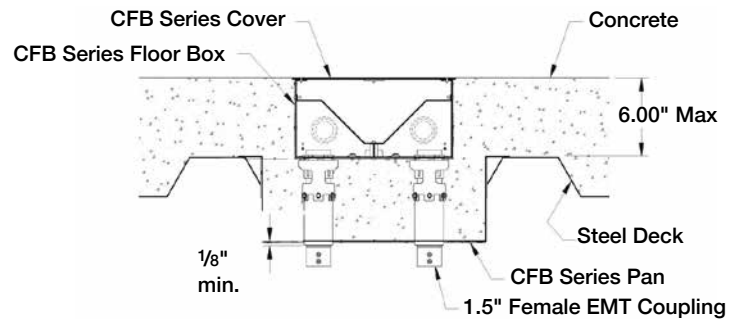
- Floor pan, conduit assemblies, hardware, leveling feet and manual  
*Floor box ordered separately*

### Installation

- For Concrete pours from 3¼ in. up to 5½ in. above upper most portion of decking
- Units can be mounted 2 ft. on center
- Fastens to deck with TEK screws or welding



**CFB7G6** Floor Box above  
**CFB7G6FRK** Installed in decking



**CFB7G6/CFB11G6 Series**

### Fire-Classified Kit for 7-Gang Floor Box

Floor box, cover and mounting plates NOT included.

Description		Catalog Number
Bottom feed conduits.	4	<b>CFB7G6FRK</b>
Bottom feed conduit size.	1½ in.	
Pan dimensions.	17 <sup>3</sup> / <sub>16</sub> L x 17 <sup>3</sup> / <sub>16</sub> W x 6 <sup>1</sup> / <sub>2</sub> H in.	
Minimum depth of pour above deck roof.	3¼ in.	
Maximum depth of pour above deck roof.	5½ in.	
Adjustment screw length, four per kit.	6 in.	
Required floor box (not included).	<b>CFB7G6</b>	



**CFB7G6FRK**  
Kit with **CFB7G6**

### Fire-Classified Kit for 11-Gang Floor Box

Floor box, cover and mounting plates NOT included.

Description		Catalog Number
Bottom feed conduits.	4	<b>CFB11G6FRK</b>
Bottom feed conduit size.	1½ in.	
Pan dimensions.	20 <sup>1</sup> / <sub>16</sub> L x 17 <sup>3</sup> / <sub>16</sub> W x 6 <sup>1</sup> / <sub>2</sub> H in.	
Minimum depth of pour above deck roof.	3¼ in.	
Maximum depth of pour above deck roof.	5½ in.	
Adjustment screw length, four per kit.	6 in.	
Required floor box (not included).	<b>CFB11G6</b>	



**CFB11G6FRK**  
Kit with **CFB11G6**

Dimensions in Inches (mm)



## Recessed 7- and 11-Gang Concrete Floor Boxes

### Dimensions Inches (mm)

Style	CFB7G Series		CFB11G Series	
	7-Gang		11-Gang	
	<b>CFB7G4</b>	<b>CFB7G6</b>	<b>CFB11G4</b>	<b>CFB11G6</b>
Min. Depth of Pour	4.08" (103.5)	6.08" (154.3)	4.08" (103.5)	6.08" (154.3)
Adjustability	Before Pour	Before Pour	Before Pour	Before Pour
Dimensions:				
A	4.08" (103.5)	6.08" (154.3)	4.08" (103.5)	6.08" (154.3)
B	10.0" (254.0)	10.0" (254.0)	13.5" (342.9)	13.5" (342.9)
C	12.2" (309.9)	12.2" (309.9)	12.2" (309.9)	12.2" (309.9)
Trade Size Knockouts:				
Sidewalls	(4) x 1", 1¼" Concentric	(4) x 1", 1¼", 1½" Concentric	(4) x 1", 1¼" Concentric	(4) x 1", 1¼", 1½" Concentric
Back	(3) x 1", 1¼", 1½" Concentric; (1) x 2"	(3) x 1", 1¼", 1½" Concentric; (1) x 2"	(2) ¾", 1" Concentric; (4) 1", 1¼", 1½" Concentric, (1) 2"	(2) ¾", 1" Concentric; (4) 1", 1¼", 1½" Concentric, (1) 2"
Bottom	(4) x 1", 1¼", 1½" Concentric	(4) x 1", 1¼", 1½" Concentric	(5) 1", 1¼", 1½" Concentric; (2) ¾", 1" Concentric	(5) 1", 1¼", 1½" Concentric; (2) ¾", 1" Concentric
Side View Depth behind mounting plate	 X - 1.01" Y - 2.41" Z - 3.51"	 X - 2.37" Y - 3.77" Z - 3.65"	 X - 1.02" Y - 2.42" Z - 3.50"	 X - 2.37" Y - 3.81" Z - 3.72"
Accepts industry standard size wallplates (sold separately)	(1) 1-Gang (1) 2-Gang (1) 4-Gang	(1) 1-Gang (1) 2-Gang (1) 4-Gang	(2) 1-Gang (1) 3-Gang (1) 6-Gang	(1) 2-Gang (1) 3-Gang (1) 6-Gang
Interior Configuration				

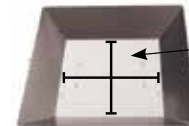
Note: UL File Number E31999.  
CSA File Number LR18416.

### Accessories

#### On-grade Barrier

The on-grade barrier is intended for use on installations at grade level. This accessory is installed prior to the concrete pour and provides a barrier between the soil. The on-grade barrier comes with leveling feet and anchor points.

#### CFBOGPAN4



Pour Pan Dimensions:  
15.75 in. sq.  
4 in. depth

### Floor Box Covers

	CFB7G Series			CFB11G Series		
	Brass	Aluminum	Black	Brass	Aluminum	Black
Flange and cover; Beveled edge for carpet	¼" Edging			¼" Edging		
	<b>CFB7CVRBRS</b>	<b>CFB7CVRALU</b>	<b>CFB7CVRBLK</b>	<b>CFB11CVRBRS</b>	<b>CFB11CVRALU</b>	<b>CFB11CVRBLK</b>
Flange and cover; Square edge for tile	½" Edging			¼" Edging		
	<b>CFB7TBRS</b>	<b>CFB7TALU</b>	-	<b>CFB11TBRS</b>	<b>CFB11TALU</b>	-

Note: Covers provide a recessed area, allowing floor covering to be inserted.

Dimensions in Inches (mm)

## Recessed 8-Gang Ballroom Series Floor Boxes

### Dimensions Inches (mm)

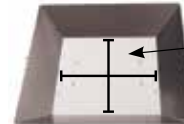
Style	CFB8FC Series	
	8-Gang	8-Gang
	 <b>CFB8FC1</b>	 <b>CFB8FC2</b>
Application	Carpet	Tile, Finished Concrete
Min. Depth of Pour	6.95" [177mm]	7.15" [182mm]
Adjustability	Before Pour	Before Pour
Dimensions:	A 6.95" (176.5) B 15.00" (176.5) C 13.00" (330.2)	A 7.15" (181.6) B 14.75" (374.7) C 12.75" (323.9)
Trade Size Knockouts:	Sidewalls (4) x 1.5", 1.25", 1" concentric Back (4) x 1.5", 1.25", 1" concentric Bottom (4) x 1.5", 1.25", 1" concentric	Sidewalls (4) x 1.5", 1.25", 1" concentric Back (4) x 1.5", 1.25", 1" concentric Bottom (4) x 1.5", 1.25", 1" concentric
Side View Depth behind mounting plate	 X = 2.27" (57.7) Y = 4.01" (101.9) Z = 3.13" (79.5)	 X = 2.27" (57.7) Y = 4.01" (101.9) Z = 3.13" (79.5)
Accepts industry standard size wallplates (sold separately) 4.63" Maximum Cover Height	One, two, three and four gang plates. Customer configuration dependant.	One, two, three and four gang plates. Customer configuration dependant.

### Accessories

#### On-grade Barrier

The on-grade barrier is intended for use on installations at grade level. This accessory is installed prior to the concrete pour and provides a barrier between the soil. The on-grade barrier comes with leveling feet and anchor points.

#### CFBOGPAN4



Pour Pan Dimensions:  
15.75 in. sq.  
4 in. depth

### Covers

All ballroom floor box covers are machined from Aluminum and have no additional finish options

	CFB8FC1 Covers		CFB8FC2 Covers	
Carpet Cover, with 2 egress doors (0.20" depth)	<b>CFB8CVRALU1</b>	-	-	-
Flush cover, with 2 egress doors	-	-	<b>CFB8CVRALU2</b>	-
Blank box cover	-	<b>CFB8JBC1</b>	-	<b>CFB8JBC2</b>
Cover Load Ratings*:				
Recommended Loading	20,000 lb	20,000 lb	20,000 lb	20,000 lb
Maximum Load	40,000 lb	40,000 lb	40,000 lb	40,000 lb

Note: \*Load applied through 3" (76mm) mandrel in center of cover. Loads are static and don't apply to rolling loads.

Dimensions in Inches (mm)

## Above-Floor Service Fittings (Single Service)

Hubbell offers a variety of above-floor service pedestals to satisfy just about any requirement. Large capacity enables a choice of services—you can even create your own unique pedestal to satisfy specific requirements. Above floor service fittings are ideal for furniture feed applications.

### Pedestals – Metallic – LO-CON (single service only)

Traditional metallic pedestals with die-cast aluminum frame, brushed aluminum housing and stainless steel faceplates. These pedestals are offered as component parts. They mount on floor box covers or floor deck/duct systems with  $\frac{3}{4}$  inch or 1 inch threaded openings.

### Create Pedestal – Create your own pedestal to meet specific service requirements. Order housing, face plates and devices separately.

Description	Catalog Number
Frame, housing, $\frac{3}{4}$ in. chase nipple, without plates.	<b>SC3098A</b>
Frame, housing, 1 in. chase nipple, without plates.	<b>SC3099A</b>
Blank plate.	<b>SS309B</b>
Telephone bushing with 1 in. I.D. and (2) $\frac{5}{8}$ in. KO for coax.	<b>SS309T</b>
Single receptacle plate with 1.39 in. (35.3) opening.	<b>SS309S</b>
Duplex receptacle plate.	<b>SS309D</b>
Style Line® decorator plate.	<b>SS309DS</b>

### Furniture Feed Plates – Use with SC3098A or SC3099A housings to feed furniture systems in office settings or display cases in retail applications.

Description	Catalog Number
Aluminum plate with $\frac{3}{4}$ in. trade size knockout.	<b>SS309SF</b>
Aluminum plate, blank.	<b>SS309BF</b>

Note: When using SS309SF on Hubbell's LO-CON pedestals, SS309BF must be used on the opposite side.

### Pedestals – Specialized Service – Large Capacity Pedestals (single service only)

Designed to accommodate receptacles up to 50A (4-gang only). These brushed aluminum pedestals are furnished with either a  $\frac{3}{4}$  inch or 1 inch hub and are designed for mounting to floor box covers with  $\frac{3}{4}$  inch or 1 inch threaded openings. Create your own unique pedestal with a wide choice of stainless steel plates and devices.

Description (2-Gang Housing)	Catalog Number
2-gang (front and back) with $\frac{3}{4}$ in. hub.	<b>SA6685</b>
2-gang (front and back) with 1 in. hub.	<b>SA6686</b>

### Plate Option – 1-Gang

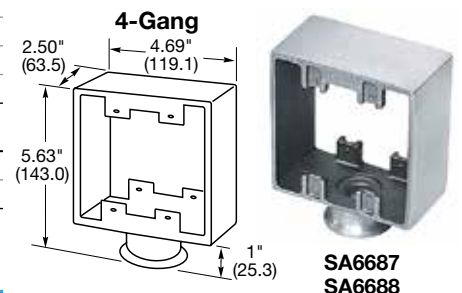
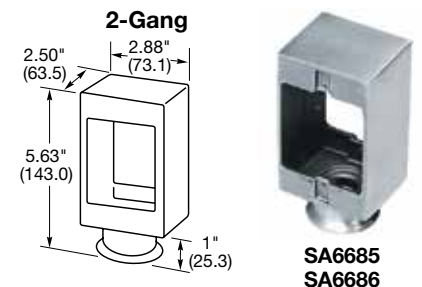
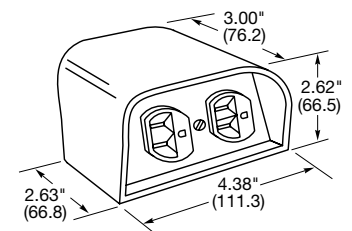
Description	Catalog Number
Duplex opening.	<b>SS8</b>
Style Line® decorator opening.	<b>SS26</b>
Single receptacle opening – boss diameter 1.36 to 1.39 in. (34.5 to 35.3).	<b>SS7</b>
Single receptacle opening – boss diameter 1.55 to 1.58 in. (39.4 to 40.1).	<b>SS720</b>
Blank plate.	<b>SS13</b>

### Description (4-Gang Housing)

Description	Catalog Number
4-gang (2 front and 2 back), with $\frac{3}{4}$ in. hub.	<b>SA6687</b>
4-gang (2 front and 2 back), with 1 in. hub.	<b>SA6688</b>

### Plate Option – 2-Gang

Description	Catalog Number
Two duplex openings.	<b>SS82</b>
Two Style Line® decorator openings.	<b>SS262</b>
Two single receptacle openings – boss diameter 1.36 to 1.39 in. (34.5 to 35.3).	<b>SS72</b>
Single receptacle opening – boss diameter 2.41 to 2.44 in. (61.2 to 62.0).	<b>SS701</b>
Single receptacle opening – boss diameter 2.09 to 2.13 in. (53.1 to 54.1).	<b>SS703</b>
Blank plate.	<b>SS23</b>



Dimensions in Inches (mm)

## Features and Benefits

### Convention Center Utility Boxes

#### Painted Galvanized Steel Box (14 Gauge G90)

- Cost effective, corrosion resistant paint. Suitable for both on and above-grade applications

#### Stainless Steel Box (14 Gauge 304)

- Corrosion resistant enclosure suitable for both on and above-grade applications

#### Listings/Requirements

- UL Listed and CSA Certified
- Meets UL514 requirements for Scrub Water and prevents water, dirt and debris from entering the electrical devices



HBLSCCUBPDW

HBLSCCUBPDWSS

### Power and Data Panels\*\*

Custom manufactured and pre-wired to your project specifications. Panel options include 60A pin and sleeve, 20A and 30A Twist-Lock®, 20A GFCI, isolated ground or industrial straight blade devices. Optional circuit breaker protection is available. Up to two gangs available for audio/video/data communication requirements. Both power and data panels are shipped separately after the boxes have been set in concrete.

Note: \*\*Contact Hubbell for available configurations of power and data panels.



#### Box Design

- Separate enclosure to keep water away from electrical components
- Hooks for tying onto rebar
- 2-gang low voltage compartment
- Custom built panels that accept a wide variety of electrical configurations



#### Cover Design

- Heavy duty covers, 32,000 lb. load capacity with 2x safety factor



#### Adjustability

- 4 inch pre-pour adjustability



#### Air/Water Only Inside View

- Separate enclosure for compressed air/water utilities, prevents air and water from coming in contact with electrical services
- 2 inch drain



#### Stand Alone Power/Data Box

- Custom manufactured and pre-wired to your project specifications
- Optional circuit breaker protection is available
- Up to 2-gangs available for audio/video/data communication requirements



#### Power/Data Box Inside View

- Up to 2-gangs of data
- 20A and 30A devices
- Circuit breakers
- Up to 60A pin and sleeve
- 150A maximum capacity

## Convention Center Utility Boxes

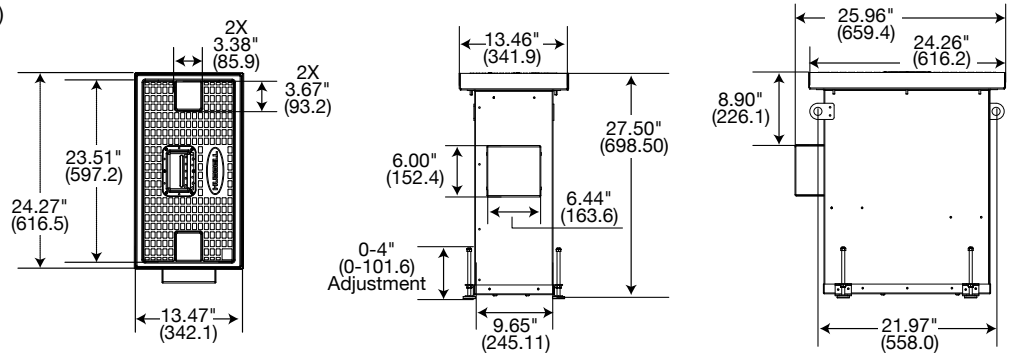
### Metallic Convention Center Utility Boxes\*

Steel Convention Center Utility Box	Painted Galvanized Steel Box	Stainless Steel Box
with Cover for Power and Data/Communications.	<b>HBLSCCUBPD</b>	<b>HBLSCCUBPDSS</b>
with Cover for Power, Data/Communications and Air/Water Box.	<b>HBLSCCUBPDW</b>	<b>HBLSCCUBPDWSS</b>
with Cover for Air/Water Only.	<b>HBLSCCUBW</b>	<b>HBLSCCUBWSS</b>

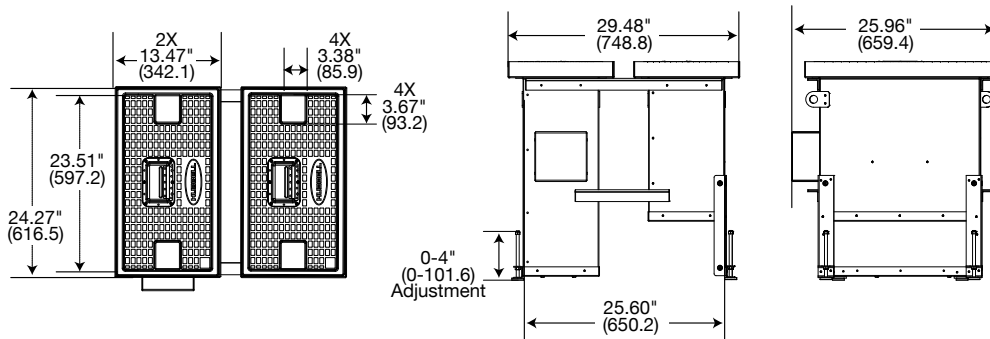
Note: \*All boxes provided with temporary galvanized steel concrete covers.

### Painted Galvanized or Stainless Steel Metallic Box

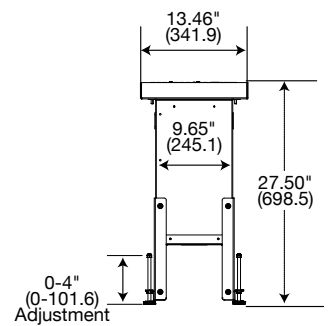
Stand Alone Power/Data  
**HBLSCCUBPD** (Painted Galvanized)  
**HBLSCCUBPDSS** (Stainless Steel)



Combination Power/Data/Water  
**HBLSCCUBPDW** (Painted Galvanized)  
**HBLSCCUBPDWSS** (Stainless Steel)

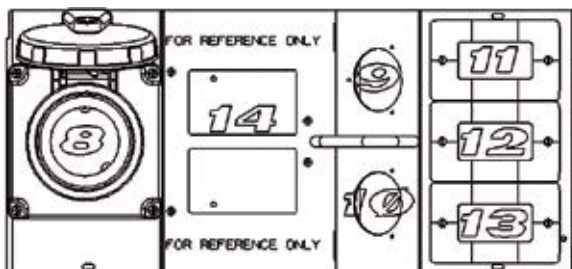


Stand Alone Water/Air Box  
**HBLSCCUBW** (Painted Galvanized)  
**HBLSCCUBWSS** (Stainless Steel)



### Pre-Wired Power Panels

Convention Center Power Panels are custom built to order and pre-wired in the factory to make installation quick and easy. Please contact the factory to configure a power panel for your specific needs.



Position	Device Options
8	Qty. (1) Pin and Sleeve Receptacle 60A.
9 & 10	Qty. (2) Twist-Lock® Receptacles (20A or 30A).
11,12,13	Qty. (3) Duplex Receptacles (20A Standard, GFCI or Isolated Ground).
14	Load Center for Circuit Breakers, 8-Pole Positions Max.

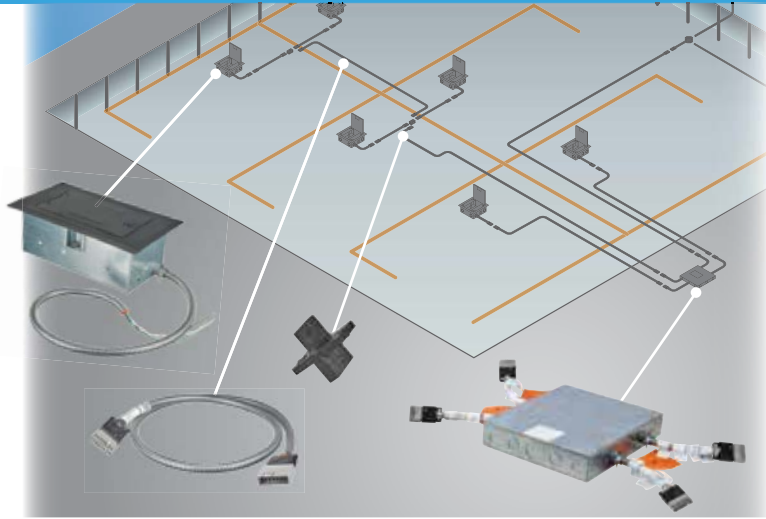
Dimensions in Inches (mm)



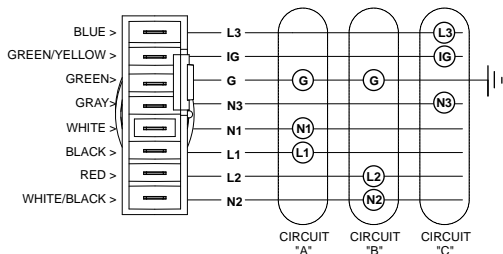
# Floor Boxes

## CONNEXION Zone Distribution System

The Hubbell CONNEXION 2.0 Zone Distribution System is a factory assembled, flexible, modular plug-n-play system that delivers power in raised floor installations. This unique system increases the value of the infrastructure and meets the challenges posed by new construction and renovation in commercial offices, retail outlets and educational facilities. By improving cable management, enhancing flexibility, and reducing administration expense, the CONNEXION 2.0 Zone Distribution System allows power needs to be addressed in a timely and effective manner. The basic CONNEXION 2.0 building blocks are shown below.



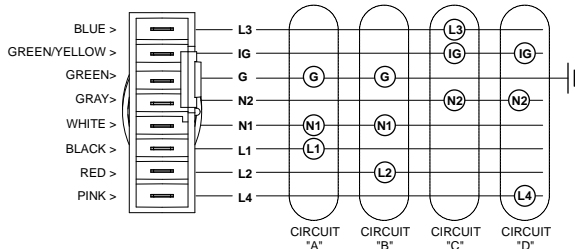
### 3/3/2 System Configuration (3-Hots, 3-Neutrals, 2-Grounds)



Appropriate for a 120/208 volt 3ØY power distribution and dedicated neutrals are desired.

- Three circuit capacity.
- Isolated ground capability for sensitive equipment.
- Each circuit has its own #12 AWG neutral.
- Component Rating: 20 amperes at 120/208 volt.
- 8-Wires (3 hots, 3 neutrals, 1 equipment ground, 1 isolated ground).

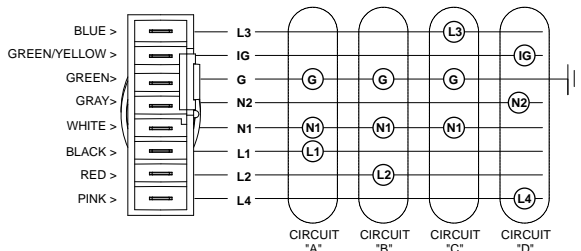
### 4/2/2 System Configuration (4 Hots, 2 Neutrals, 2 Grounds) 2 + 2 Wiring Configuration



Appropriate in areas where shared neutral conductors are utilized.

- Two circuits share one #10 AWG neutral to manage harmonics for general purpose.
- Two additional circuits share one #10 AWG neutral to manage harmonics for general purpose.
- Isolated ground capability for sensitive equipment.
- Component Rating: 20 amperes at 120/208 volt.
- 8-Wires (4 hots, 2 neutrals, 1 equipment ground, 1 isolated ground).

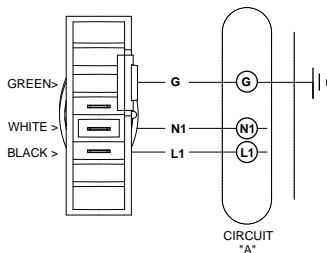
### 4/2/2 System Configuration (4 Hots, 2 Neutrals, 2 Grounds) 3+ 1 Wiring Configuration



Appropriate in areas where shared neutral conductors are utilized.

- Three circuits share #10 AWG neutral to manage harmonics for general purpose.
- One circuit on dedicated #10 AWG neutral for sensitive equipment.
- Isolated ground capability for sensitive equipment.
- Component Rating: 20 amperes at 120/208 volt.
- 8-Wires (4 hots, 2 neutrals, 1 equipment ground, 1 isolated ground).

### 1/1/1 System Configuration (1 Hot, 1 Neutral, 1 Ground)



- One circuit capacity.
- Component Rating: 20 amperes at 120/208 volt.
- 3-Wires (1 hot, 1 neutral, 1 equipment ground).

Note: Contact factory for custom wiring configurations.

# Floor Boxes

## CONNEXION Zone Distribution System

### 2.0 Zone Boxes

Zone Box Part Number	Wiring Configuration	Output Whips	Total Number of Circuits per Box	Circuits per Whip	Home Run Connection Type
ZB332C3W1POUT*	332	1	3	3	Wire nuts to open leads
ZB332C6W2P	332	2	6	3	Wire nuts to open leads
ZB332C12W4P	332	4	12	3	Wire nuts to open leads
ZB332C3W2TC	332	2	3	3	Single Screw down terminal block
ZB332C3W4TC	332	4	3	3	Single Screw down terminal block
ZB332C6W2TM	332	2	6	3	Multi Screw down terminal block
ZB332C12W4TM	332	4	12	3	Multi Screw down terminal block
ZB422S2C4W1POUT*	422, 2+2	1	4	4	Wire nuts to open leads
ZB422S2C8W2P	422, 2+2	2	8	4	Wire nuts to open leads
ZB422S2C16W4P	422, 2+2	4	16	4	Wire nuts to open leads
ZB422S2C4W2TC	422, 2+2	2	4	4	Single Screw down terminal block
ZB422S2C4W4TC	422, 2+2	4	4	4	Single Screw down terminal block
ZB422S2C8W2TM	422, 2+2	2	8	4	Multi Screw down terminal block
ZB422S2C16W4TM	422, 2+2	4	16	4	Multi Screw down terminal block
ZB422S3C4W1POUT*	422, 3+1	1	4	4	Wire nuts to open leads
ZB422S3C8W2P	422, 3+1	2	8	4	Wire nuts to open leads
ZB422S3C16W4P	422, 3+1	4	16	4	Wire nuts to open leads
ZB422S3C4W2TC	422, 3+1	2	4	4	Single Screw down terminal block
ZB422S3C4W4TC	422, 3+1	4	4	4	Single Screw down terminal block
ZB422S3C8W2TM	422, 3+1	2	4	4	Multi Screw down terminal block
ZB422S3C16W4TM	422, 3+1	4	16	4	Multi Screw down terminal block
ZB111C1W1POUT*	111	1	1	1	Wire nuts to open leads
ZB111C2W2P	111	2	2	1	Wire nuts to open leads
ZB111C4W4P	111	4	4	1	Wire nuts to open leads
ZB111C6W6P	111	6	6	1	Wire nuts to open leads
ZB111C8W8P	111	8	8	1	Wire nuts to open leads
ZB111C1W2TC	111	2	1	1	Single Screw down terminal block
ZB111C1W4TC	111	4	1	1	Single Screw down terminal block
ZB111C1W6TC	111	6	1	1	Single Screw down terminal block
ZB111C1W8TC	111	8	1	1	Single Screw down terminal block
ZB111C2W2TM	111	2	2	1	Multi Screw down terminal block
ZB111C4W4TM	111	4	4	1	Multi Screw down terminal block
ZB111C6W6TM	111	6	6	1	Multi Screw down terminal block
ZB111C8W8TM	111	8	8	1	Multi Screw down terminal block

Note: \*OUT suffix denotes single whip output zone box, which will not be further expanded.

### 2.0 Furniture Feeds

Furniture feeds are junction boxes which come with a pre attached power "IN" connector allowing transition to building hard-wiring underneath the raised floor.

Zone Box Part Number	Wiring Configuration	Output Whips	Total Number of Circuits per Box	Circuits per Whip	Home Run Connection Type
ZB332C3W1PIN	332	1	3	3	Wire nuts to open leads
ZB422S2C4W1PIN	422, 2+2	1	4	4	Wire nuts to open leads
ZB422S3C4W1PIN	422, 3+1	1	4	4	Wire nuts to open leads
ZB111C1W1PIN	111	1	1	1	Wire nuts to open leads

### 2.0 Extender Cables

Hubbell Connexion 2.0 extender cables have male (power "IN") / female (power "OUT") ends allowing them to be connected in the field as needed. Available in three different versions, 422, 332, and 111, in 5 ft. increments up to 30 ft.

422 Family	332 Family	111 Family	Length	Connectors
CEXT422MFL01	CEXT332MFL01	CEXT111MFL01	1 ft.	Male / Female
CEXT422MFL05	CEXT332MFL05	CEXT111MFL05	5 ft.	Male / Female
CEXT422MFL10	CEXT332MFL10	CEXT111MFL10	10 ft.	Male / Female
CEXT422MFL15	CEXT332MFL15	CEXT111MFL15	15 ft.	Male / Female
CEXT422MFL20	CEXT332MFL20	CEXT111MFL20	20 ft.	Male / Female
CEXT422MFL25	CEXT332MFL25	CEXT111MFL25	25 ft.	Male / Female
CEXT422MFL30	CEXT332MFL30	CEXT111MFL30	30 ft.	Male / Female
CEXT422FWL01	CEXT332FWL01	CEXT111FWL01	1 ft.	Female / Open
CEXT422FWL01XP*	CEXT332FWL01XP*	CEXT111FWL01XP*	1 ft.	Female / Open
CEXT422MWL01	CEXT332MWL01	CEXT111MWL01	1 ft.	Male / Open
CEXT422MWL01XP*	CEXT332MWL01XP*	CEXT111MWL01XP*	1 ft.	Male / Open
CEXT422MWL05	CEXT332MWL05	CEXT111MWL05	5 ft.	Male / Open
CEXT422MWL15	CEXT332MWL15	CEXT111MWL15	15 ft.	Male / Open

Note: \*Standard lead length is 12 in. long. XP Suffix denotes 18 in. long leads for installations requiring extra-long wires.



Zone distribution Boxes are the core of the Connexion 2.0 system. They serve as the main interface between the conventionally connected electrical system and the labor saving Connexion 2.0 system. With a large array of knock outs, they can accept most conduit sizes when run from the circuit breaker panel. They also accept labor saving Homerun cables as part of the Connexion 2.0 system. With depth of 3 inches, the zone boxes will fit in almost any raised flooring system. Custom configurations are also available. Contact Hubbell Wiring Systems for ordering information.



### 2.0 Splitters

Distributes all cable conductors to up to three locations (one "IN", three "OUTS") to increase the amount of floor boxes fed from a single Zone Distribution Box output whip.

Catalog Number	Wires	Hot Circuits
SP31	3	1
SP83	8	3
SP84	8	4



### 2.0 Homerun Cables

The Homerun cable is a dedicated 9-conductor (#10 AWG, THHN / THWN) cable from the panel to the zone box and allows for savings by removing the need to lay conduit and pull wire.

Catalog Number	Length
ZBHR25	25 ft.
ZBHR50	50 ft.
ZBHR75	75 ft.
ZBHR100	100 ft.



## Custom Pre-Wired Access Floor Boxes

### Cover

- 180° cover opening
- Two large cable egress doors
- Die cast aluminum construction
- Five powder coat finishes
- ADA compliant



### Box

- 16 gauge galvanized sheet metal construction

### Cable Whip

- Wire leads for field termination
- Pre-wired cable whip

### Features and Benefits

- Reduce job site fabrication time and installation labor
- Reduce job site waste
- Access Floor Box pre-wired to your specifications
  - Choose from Hubbell quality devices
  - Single or multiple circuit wiring configurations
  - Various cable lengths
- Pigtail terminates beneath raised floor
- Box covers available in five finishes
- Contact Hubbell Wiring Systems for ordering information
- UL Listed Wiring Assembly, file number E305156

### Pre-Wired Raised Access Floor Box Options

Box Series	Description	Cover Style	Cut Out Dimensions	Conduit Knockouts
<b>AFB2G25PW</b>	2-Gang, 2½" Depth	Rectangular	6¾" x 13½"	½" – ¾"
<b>AFB2G50PW</b>	2-Gang, 5.0" Depth	Rectangular	6¾" x 13½"	½" – 2"
<b>AFB4G25PW</b>	4-Gang, 2½" Depth	Rectangular	11¼" x 11⅞"	½" – ¾"
<b>AFB4G50PW</b>	4-Gang, 5.0" Depth	Rectangular	11¼" x 11⅞"	½" – 2"
<b>AFB10G55PW</b>	10-Gang, 5½" Depth	Rectangular	11" x 11¼"	½" – 2"
<b>RAFB4PW</b>	4-Gang, 8.0" Depth	Round	8" Diameter	½" – 2"

## Products at a Glance

Featuring the unique capabilities of Hubbell's SystemOne universal cover and sub-plate design, Hubbell has expanded its floor box offering to provide industry leading flexibility while accommodating an extensive range of applications. Hubbell SystemOne is constructed to give customers the ability to create personal solutions for their most demanding, power, data and audio/video requirements.

## SystemOne Recessed Raised Access and Wood Floor Applications...



### 2-Gang Rectangular

Ideal for applications that call for basic power and data/AV requirements. The 2-gang boxes can be used as an access point to electrical or data connections, or as a furniture feed to power interior furniture partitions. Available in two box depths, the 2 ½ in. depth works well in floors using short pedestals; the 5 in. depth is ideal for furniture feed applications. The rectangular covers are available in assorted finishes to enhance any design scheme.



### 4-Gang Rectangular

The Hubbell SystemOne 4-Gang Recessed Raised Access or Wood Floor Box delivers AV plus power. Similar to the 2-gang recessed raised access floor box, the 4-gang 2 ½ inch box depth provides a solution for floors using short pedestals. The 5 inch depth is ideal for applications with a lot of requirements. Rectangular covers in a variety of finishes will match any existing or new style.



### 4-Gang Round


With an 8 in. diameter, the Hubbell SystemOne 4-Gang Round Recessed Floor Box is ideal for use in raised access floors with pre-cut tile or wood floor coverings. With a variety of finish selections, the round covers blend in with the flooring and overall design of the building. Deep, 2 ¾ in. wiring compartments are ready to accommodate today's most advanced, high-performance power, data and AV needs to supply reliable connectivity.



### 10-Gang Rectangular

Designed to serve high-capacity, multi-service applications, the 10-gang floor box supports installation with an array of Hubbell power, data and AV devices. Third-party mounting plates are available for other manufacturers' devices, including Extron®, Crestron® and FSR®. A 5 ½ in. box depth offers great capacity for connectivity, with the ability accept 2 in. conduit to meet growing AV and data needs. The rectangular covers come in a variety of colors and finishes to enhance any building's design.

### Cover

- 180° cover opening
- Two large cable egress doors
- Listed to UL 514A and UL scrub water compliant
- Die cast aluminum cover construction
- Available in round, rectangular and furniture feed styles
- All covers are ADA compliant 

### Rectangular Boxes

- 16 gauge galvanized sheet metal
- 6 in. solid conductor ground pigtail in each gang
- Many boxes allow for 2 in. conduits
- Mounts in tiles ¾ in. to 2 in. thick
- Patent pending, labor saving, easy mount device plates

### Round Box

- Fits in 8 in. diameter air diffuser holes
- 16 gauge galvanized sheet metal construction
- Individual grounding screws for each gang
- 2 in. knock-out on the bottom allows for large amounts of data and/or AV devices
- Mounts in tiles ¾ in. to 2 in. thick

Extron® is a registered trademark of Extron Electronics.  
Crestron® is a registered trademark of Crestron Electronics, Inc.  
FSR® is a registered trademark of FSR Inc.



# Floor Boxes

## Selecting a SystemOne Recessed Raised Access or Wood Floor Box

To assist with the floor box selection process please have the following information available:

Electrical requirements:	Box depth	Cover style:
Power (each electrical device requires one gang) Data/AV (consult manufacturers' specification for size/volume requirements), number required.  Add up total number to determine needed capacity. If necessary capacity is not shown round up to next size. Example: 9-Gang rounds up to a 10-Gang floor box.	Determine maximum tile thickness and stantion height and add together. Box depth can not exceed total.	Round Rectangular

Once this information is gathered start on the right column "capacity" select necessary box, then select the concrete pour depth and on-grade or above-grade application, and finally cover style. Locate inter connecting point of all three categories and move to right to select correct catalog number.

- ① Capacity: Select necessary box.
- ② Box Depth: Determine maximum possible depth (tile and stantion height total) and select a depth less than the calculated height.
- ③ Cover Style: Select Round or Rectangular, not all box sizes are available in round.
- ④ Locate interconnecting point of all three categories and move to right to select correct catalog number.

		Box Depth ②							
		2 ½ in.	3 in.	2 ½ in.	5 in.	5 ½ in.	6 ¼ in.		
Capacity ①	2-Gang			•				AFB2G25	Select Correct Catalog Number ④
				•				AFB2G25CHI	
					•			AFB2G50	
					•			AFB2G50CHI	
	4-Gang	•						AFB4G25	
		•						AFB4G25CHI	
					•			AFB4G50	
					•			AFB4G50CHI	
							•	RAFB4BASE	
	10-Gang					•		AFB10G55	
						•		AFB10G55CHI	
			Rectangular	Rectangular	Furniture Feed	Furniture Feed	Rectangular	Round	
		Cover Style ③							





# Floor Boxes

## Features and Benefits

### SystemOne Recessed Benefits and Enhancements

#### Functionality

- Cables and connections are protected by recessed functionality
- Open architecture sub-plate design
- Dirt ingress reduced by egress door brushes
- Meets UL 514A scrub water requirements with ScrubShield® technology
- Easy selection with common flange for all floor types
- Round and rectangular box versions available

#### Value

- Enhance building décor with numerous finishes
- Increase durability and longevity with cast aluminum covers

#### Online Resources

- BIM models, customer drawings and technical specifications are available on [www.hubbell-wiring.com](http://www.hubbell-wiring.com)



#### Safety

- Low profile flanges meet ADA requirements
- Hide-away egress doors fold under cover while in use
- 180° opening of main doors



#### Covers

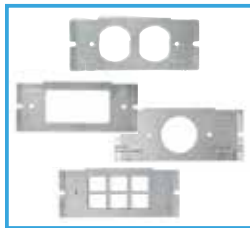
- Die cast construction available in five finishes
- Furniture feed includes one 2 in. conduit hub and one 1 in. conduit hub with reducer to 3/4 in.
- Maximum static load of 800 lbs. with 2x safety factor\*

*Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.*



#### Rectangular Floor Boxes

- Standard or Chicago version available
- Temporary cover included



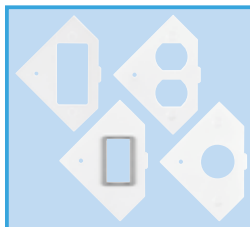
#### Plates

- For use with 2, 4 and 6-gang floor boxes
- UL 514A listed



#### Round Floor Boxes

- Corrosion resistant epoxy paint
- Temporary cover included



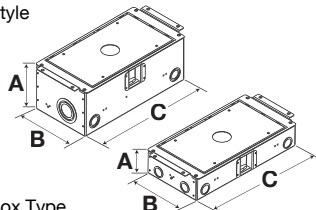


#### RAFB4 Plates

- All RAFB4SP series plates are powder coated white

Visit web site for information on Hubbell's Pre-wired, Plug and Play, Connexion System.

## SystemOne Recessed 2-Gang Rectangular Floor Boxes, Covers and Plates For Use In Raised Access or Wood Floors

### Dimensions Inches (mm)

Style			
Box Type			
Standard Chicago	<b>AFB2G50</b> <b>AFB2G50CHI</b>	<b>AFB2G25</b> <b>AFB2G25CHI</b>	
Minimum Depth from Top of Floor Tile	5.00" (127.0)	2.50" (63.5)	
Cubic Inch (cm3) Capacity per Gang	60 cu. in. (980 cm3)	30 cu. in. (490 cm3)	
Dimensions – A	5.06" (128.5)	2.88" (73.2)	
Dimensions – B	6.62" (168.2)	6.62" (168.2)	
Dimensions – C	14.08" (357.6)	14.08" (357.6)	
KO Trade Size: Front & Back Sides Bottom	(1) 1", 1¼", 1½", 2" (2) ¾", 1", 1¼" (4) ¾", 1", 1¼"	(4) ½", ¾" (2) ½", ¾" (2) ½", ¾", 1"	
Cover Family		Rectangular	Rectangular
Temporary Cover Included		✓	✓



### Rectangular Covers (for use with raised access tiles and wood floors)

- Die cast construction available in five finishes
- Furniture feed includes one 2 in. conduit hub and one 1 in. conduit hub with reducer to ¾ in.
- Maximum static load of 800 lbs. with 2x safety factor\*













Cover dimensions 15 in. x 8¾ in.

Finish	Surface	Surface with Insert	Furniture Feed
Aluminum Powder Coated	<b>2GAFBCVRLU</b>	<b>2GAFBCVRLUC</b>	<b>2GAFBFFCVRLU</b>
Black Powder Coated	<b>2GAFBCVRBK</b>	<b>2GAFBCVRBKC</b>	<b>2GAFBFFCVRBK</b>
Brass Powder Coated	<b>2GAFBCVRBRS</b>	<b>2GAFBCVRBRSC</b>	<b>2GAFBFFCVBRRS</b>
Bronze Powder Coated	<b>2GAFBCVRBRZ</b>	<b>2GAFBCVRBRZC</b>	<b>2GAFBFFCVBRZ</b>
Satin Nickel Powder Coated	<b>2GAFBCVRNK</b>	<b>2GAFBCVRNKC</b>	<b>2GAFBFFCVRNK</b>

Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

### Plates - for use in 2, 4 and 6-Gang Floor Boxes

- UL 514A listed

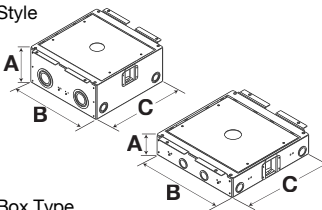


Plate Style	(1) Decorator Opening	(1) Duplex Opening	(2) Extron® MAAP Openings	(2) Extron® Openings	(2) 1U Hubbell iStation Openings	(1) 1.5U Hubbell iStation Opening
Cat. No.	<b>FBMPREC</b>	<b>FBMPDUP</b>	<b>FBMPMAAP</b>	<b>FBMPAAP</b>	<b>FBMP2IM</b>	<b>FBMP15IM</b>
						
Plate Style	(1) Simplex Opening 1.40 in. Diameter	(1) Twist-Lock® Opening 1.60 in. Diameter	1-Gang Blank	Cable Feed Through with Bushing	(1) Opening for TracJack® or Series II®	(1) Opening w/ Hubbell ISF6 Frame for Keystone Jacks
Cat. No.	<b>FBMP139</b>	<b>FBMP156</b>	<b>FBMPBNK</b>	<b>FBMPFT</b>	<b>FBMPTRAC</b>	<b>FBMP6KS</b>
						

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Dimensions in Inches (mm)

## SystemOne Recessed 4-Gang Rectangular Floor Boxes, Covers and Plates For Use In Raised Access or Wood Floors

### Dimensions Inches (mm)

Style			
Box Type			
Standard	<b>AFB4G50</b>	<b>AFB4G25</b>	
Chicago	<b>AFB4G50CHI</b>	<b>AFB4G25CHI</b>	
Minimum Depth from Top of Floor Tile	5.00" (127.0)	2.50" (63.5)	
Cubic Inch (cm3) Capacity per Gang	57.5 cu. in. (940 cm3)	26.5 cu. in. (434 cm3)	
Dimensions – A	5.17" (131.4)	2.69" (68.2)	
Dimensions – B	11.00" (279.4)	11.00" (279.4)	
Dimensions – C	11.00" (279.4)	11.00" (279.4)	
KO Trade Size: Front & Back Sides	(2) 1", 1¼", 1½", 2"	(2) ½", ¾"	
Bottom	(4) ½", ¾", 1"	(4) ½", ¾", 1"	
Cover Family	Rectangular	Rectangular	
Temporary Cover Included	✓	✓	



### Rectangular Covers (for use with raised access tiles and wood floors)

- Die cast construction available in five finishes
- UL 514A listed
- Maximum static load of 1500 lbs. with 2x safety factor\*













Cover dimensions 13 in. x 13¼ in.

Finish	Flush Surface	With Insert
Aluminum Powder Coated	<b>4GAFBCVRALU</b>	<b>4GAFBCVRALUC</b>
Black Powder Coated	<b>4GAFBCVRBK</b>	<b>4GAFBCVRBK</b>
Brass Powder Coated	<b>4GAFBCVRBRS</b>	<b>4GAFBCVRBRSC</b>
Bronze Powder Coated	<b>4GAFBCVRBRZ</b>	<b>4GAFBCVRBRZC</b>
Satin Nickel Powder Coated	<b>4GAFBCVRNK</b>	<b>4GAFBCVRNK</b>

Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

### Plates - for use in 2 and 4-Gang Floor Boxes

- UL 514A listed

Plate Style	(1) Decorator Opening	(1) Duplex Opening	(2) Extron® MAAP Openings	(2) Extron® Openings	(2) 1U Hubbell iStation Openings	(1) 1.5U Hubbell iStation Opening
Cat. No.	<b>FBMPREC</b>	<b>FBMPDUP</b>	<b>FBMPMAAP</b>	<b>FBMPAAP</b>	<b>FBMP2IM</b>	<b>FBMP15IM</b>
						
Plate Style	(1) Simplex Opening 1.40 in. Diameter	(1) Twist-Lock® Opening 1.60 in. Diameter	1-Gang Blank	Cable Feed Through with Bushing	(1) Opening for TracJack® or Series II®	(1) Opening w/ Hubbell ISF6 Frame for Keystone Jacks
Cat. No.	<b>FBMP139</b>	<b>FBMP156</b>	<b>FBMPBNK</b>	<b>FBMPFT</b>	<b>FBMPTRAC</b>	<b>FBMP6KS</b>
						

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Dimensions in Inches (mm)

## SystemOne Recessed 4-Gang Round Floor Boxes, Covers and Plates For Use In Raised Access or Wood Floors

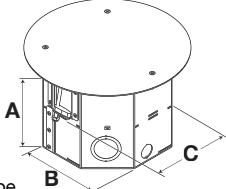



**RAF4NKL**  
with Devices



**RAF4BRS**

### Dimensions Inches (mm)

Style			
Box Type	Round		
Round	<b>RAF4BASE</b>		
Minimum Depth from Top of Floor Tile	6.25" (158.8)		
Cubic Inch (cm3) Capacity per Gang	28.5 cu. in. (460 cm3)		
Dimensions – A	6.41" (162.9)		
Dimensions – B	7.33" (186.2)		
Dimensions – C	8.05" (204.6)		
KO Trade Size: Sides	(2) 1/2"	(2) 3/4", 1 1/2" - Concentric, (2) 1", 1 1/4" - Concentric	
Bottom	(1) 1 1/2", 2"	(1) 3/4", 1" - Concentric, (1) 3/4", 1", 1 1/4" - Concentric	
Temporary Cover Included	✓		
ADA	Flange thickness is 1/8 inches thick and complies with ADA requirements		



### RAF4 Series – Round Floor Box with Cover

Includes: **RAF4BASE** and 8 in. cover

Cover Finish	Catalog Number
Brushed Aluminum	<b>RAF4ALU</b>
Black Powder Coated	<b>RAF4BLK</b>
Brass Plated	<b>RAF4BRS</b>
Bronze Plated	<b>RAF4BRZ</b>
Satin Nickel Plated	<b>RAF4NKL</b>

### 8 Inch Round Covers\*

Round covers are suitable for use with all floor types

Plate Style	Catalog Number
Brushed Aluminum	<b>CFBS1R8CVRALU</b>
Black Powder Coated	<b>CFBS1R8CVRBLK</b>
Brass Plated	<b>CFBS1R8CVRBRS</b>
Bronze Plated	<b>CFBS1R8CVRBRZ</b>
Satin Nickel Plated	<b>CFBS1R8CVRNKL</b>

*Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.*

### RAF4 Series – Plates

- All **RAF4SP** series plates are powder coated white

Plate Style	(1) Decorator	(1) Duplex	(1) Simplex Opening 1.40 in. Diameter	(1) Twist-Lock® Opening 1.60 in. Diameter	Blank
Cat. No.	<b>RAF4SPDECO</b>	<b>RAF4SPDUPLX</b>	<b>RAF4SPTL14</b>	<b>RAF4SPTL16</b>	<b>RAF4SPBLANK</b>

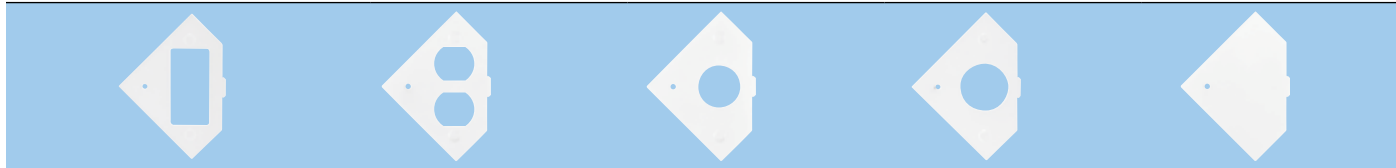
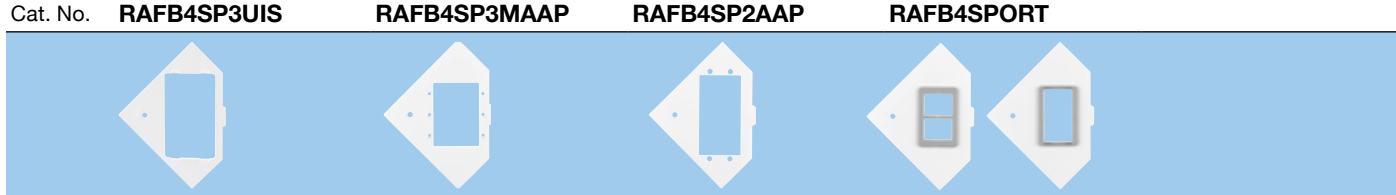


Plate Style	(3) Extron® MAAP Modules	(2) Extron® AAP Modules	Opening to Accept Bezels for Ortronics TracJack®
Cat. No.	<b>RAF4SP3UIIS</b>	<b>RAF4SP3MAAP</b>	<b>RAF4SP2AAP</b>

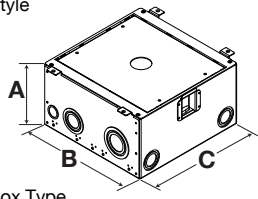



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Dimensions in Inches (mm)

## SystemOne Recessed 10-Gang Rectangular Floor Boxes, Covers and Plates For Use In Raised Access or Wood Floors

### Dimensions Inches (mm)

Style	
Box Type	
Standard Chicago	<b>AFB10G55</b> <b>AFB10G55CHI</b>
Min. Depth from Top of Floor Tile	5.50" (139.7)
Cubic Inch (cm3) Capacity per Gang	25 cu. in. (400 cm3)
Dimensions – A	5.74" (145.9)
Dimensions – B	10.96" (278.4)
Dimensions – C	12.37" (314.1)
KO Trade Size: Front & Back	(1) ½", ¾", (1) ¾", 1", 1¼", 1½", (1) 1", 1¼", 1½", 2"
Sides	(2) ¾", 1", 1¼", 1½"
Bottom	(2) ½", ¾", (4) ½", ¾", 1", 1¼"
Cover Family	Rectangular
Temporary Cover Included	✓



### Rectangular Covers




















(for use with raised access tiles and wood floors)

- Die cast construction available in five finishes
- UL 514A listed
- Maximum static load of 1500 lbs with 2x safety factor\*

Finish	Surface Style Cover	Surface Style Cover with Insert
Aluminum Powder Coated	<b>10GAFBCVRLU</b>	<b>10GAFBCVRLUC</b>
Black Powder Coated	<b>10GAFBCVRBK</b>	<b>10GAFBCVRBKC</b>
Brass Powder Coated	<b>10GAFBCVRBRS</b>	<b>10GAFBCVRBRSC</b>
Bronze Powder Coated	<b>10GAFBCVRBRZ</b>	<b>10GAFBCVRBRZC</b>
Satin Nickel Powder Coated	<b>10GAFBCVRNK</b>	<b>10GAFBCVRNKC</b>

Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

### AFB10 Series – Plates

Plate Style	(1) Decorator Opening	(1) Duplex Opening	Blank	Decorator Opening Plate Including Hubbell ISF6GY	(2) Openings to Accommodate (6) Ortronics TrackJack®
Cat. No.	<b>FB10MPREC</b>	<b>FB10MPDUP</b>	<b>FB10MPBNK</b>	<b>FB10MPKEY</b>	<b>FB10MPTRAC</b>
					
Plate Style	(2) Decorator	(4) Extron® MAAP Modules	(4) Extron® AAP Modules	For (6) 1U Hubbell iStation Modules	Replacement Spacer Around Wire-Way
Cat. No.	<b>FB10MP2A</b>	<b>FB10MPMAAP</b>	<b>FB10MPAAP</b>	<b>FB10MP2B</b>	<b>FB10MPX</b>
					
Plate Style	(1) Twist-Lock® Opening 1.60 in. Dia. (Uses 2-Gangs)	(1) Simplex Opening 1.40 in. Dia. (Uses 2-Gangs)	(2) Twist-Lock® Opening 1.60 in. Dia. (Uses 3-Gangs)	(2) Simplex Opening 1.40 in. Dia. (Uses 3-Gangs)	(1) Opening for Appliance Receptacle (Uses 3-Gangs)
Cat. No.	<b>FB10TLA</b>	<b>FB10TLX</b>	<b>FB10TLB</b>	<b>FB10TLY</b>	<b>FB10MP3GAPP</b>
					
Plate Style	(3) Twist-Lock® Opening 1.60 in. Dia. (Uses 5-Gangs)	(3) Simplex Opening 1.40 in. Dia. (Uses 5-Gangs)	(2) 2-Gang. Meets NEMA Spacing. Ideal for Crestron® DM –TX Product and Power (Uses 5-Gangs)	(4) Single Service Openings Utilizing NEMA Wallplate (Uses 5-Gangs)	
Cat. No.	<b>FB10TLC</b>	<b>FB10TLZ</b>	<b>CFB10NEMA</b>	<b>FB10MPNEMA4G</b>	
					

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Dimensions in Inches (mm)



## Features and Benefits

### SystemOne 4 inch Recessed Floor Box, for Raised Access and Wood Floors

The AFBS1R4 floor box was designed for use in raised access or wood floors. It installs easily into a 4 inch diameter hole and is retained by two sets of retaining bars on the side. Electrical connections are made below the walking surface to protect the electrical devices and increase safety by reducing tripping hazards. Intended for areas that require basic power requirements - one duplex, a duplex with two data jacks or a quadplex - the unobtrusive design will blend into any setting. Available in six architectural finishes and utilizing a flange that is ADA compliant at 1/8 inch thick, Hubbell SystemOne Floor Boxes harmonize aesthetics with function and safety.

- UL listed, scrub water compliant
- Plenum rated



**AFBS1R4BRS**



#### Box Design

- Durable die-cast aluminum box construction
- Flexible single or dual service
- Easily installs in 4 inch diameter hole, 5 5/8 inch device depth
- Four 1/2 inch side knockouts
- One 1, 3/4 and 1/2 inch concentric bottom knockout




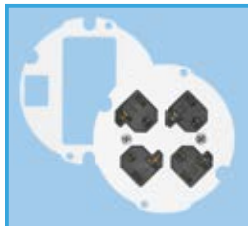
#### Covers

- Durable die-cast aluminum cover
- 1,000 lbs, static load rated cover
- Available in six architectural finishes



#### Safety

- Increased safety with recessed connections
- Low profile flanges meet ADA requirements 
- Hide-away egress door fold under cover while in use
- 180° opening of main doors



#### Easy Mount Device Plates

- All S1R4SP series plates are powder coated white



#### Applications

- Raised access and wood floor applications in commercial and residential buildings

## SystemOne 4 inch Recessed Floor Box, for Raised Access and Wood Floors

### 4 inch Recessed Floor Boxes

Description	Catalog Number
Floor Box with temporary installation Cover	<b>AFBS1R4BASE</b>
Floor Box (AFBS1R4BASE) with Brushed Aluminum Finish Cover (AFBS1R4CVRALU)	<b>AFBS1R4ALU</b>
Floor Box (AFBS1R4BASE) with Black Powder Coat Finish (AFBS1R4CVRBLK)	<b>AFBS1R4BLK</b>
Floor Box (AFBS1R4BASE) with Plated Brushed Brass Finish Cover (AFBS1R4CVRBRS)	<b>AFBS1R4BRS</b>
Floor Box (AFBS1R4BASE) with Plated Antique Bronze Finish Cover (AFBS1R4CVRBRZ)	<b>AFBS1R4BRZ</b>
Floor Box (AFBS1R4BASE) with Gray Powder Coat Finish Cover (AFBS1R4CVRGRY)	<b>AFBS1R4GRY</b>
Floor Box (AFBS1R4BASE) with Plated Satin Nickel Finish Cover (AFBS1R4CVRNKL)	<b>AFBS1R4NKL</b>

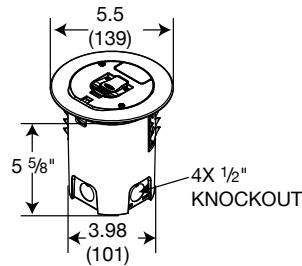


### Replacement Parts

Description	Catalog Number
Low Voltage Divider	<b>AFBS1R4DIV</b>
Replacement Bottom Knockouts	<b>AFBS1R4BOTTOM</b>

### Installation

Hole Diameter	4 inch
Bottom Knock out	1 inch, 3/4 inch, 1/2 inch concentric
Side knock out	(4) 1/2 inch



### Covers

- Flange diameter is 5.5 inches
- Flange thickness is 1/8 inches thick and complies with ADA requirements
- Cover load rating is 1,000 lbs, for a static load applied through a 3 inch dia. mandrel with 2x safety factor\*

### Architectural Covers

Brushed Aluminum Finish,  
Single fold under cable  
egress door.



**AFBS1R4CVRALU**

Plated Brushed Brass Finish,  
Single fold under cable  
egress door.



**AFBS1R4CVRBRS**

Plated Antique Bronze Finish,  
Single fold under cable  
egress door.



**AFBS1R4CVRBRZ**

Plated Satin Nickel Finish,  
Single fold under cable  
egress door.



**AFBS1R4CVRNKL**

### Powder Coated Covers

Black Powder Coat Finish,  
Single fold under cable  
egress door.



**AFBS1R4CVRBLK**










Gray Powder Coat Finish,  
Single fold under cable  
egress door.



**AFBS1R4CVRGRY**

Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

### Device Mounting Plates

Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate
2X2 Sub-plate with (1) StyleLine® decorator device opening and (2) keystone jack openings <b>S1R4SP2X2STYLE</b>		(1) StyleLine® decorator device opening for power or datacom applications <b>S1R4SPSTYLE</b>		2X2 Sub-plate with (1) decorator device opening and (2) Ortronics® TracJack® openings <b>S1R4SP2X2STYLETJ</b>	
2X2 Sub-plate with (1) duplex device opening and (2) keystone jack openings <b>S1R4SP2X2DUPLEX</b>		(1) Duplex device opening for power or datacom applications <b>S1R4SPDUPLEX</b>		2X2 Sub-plate with (1) duplex device opening and (2) Ortronics® TracJack® openings <b>S1R4SP2X2DUPLEXTJ</b>	
(4) Single 20A receptacles. Can be wired as single or two circuit with isolated ground capability, 12 inch wire leads <b>S1R4SPQUAD</b>		(1) 1.60 inch opening for 20 or 30A Twist-Lock® receptacle <b>S1R4SPTWIST</b>		(1) 1.40 inch opening for simplex receptacle <b>S1R4SPSIMPLEX</b>	

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Dimensions in Inches (mm)

## Features and Benefits

### SystemOne 6 inch Furniture Feed Floor Box, for Raised Access and Wood Floors

The AFBS1R6FF floor box is designed for use in raised access or wood floors. It installs easily into a 6 inch diameter hole and is retained by two pawl arms which swing outwards when tightened by a screw driver. Providing the lowest profile in the industry, the 1/8 inch flange thickness is ADA compliant. The box can also serve as a wiring chamber for power if needed.

Available in six architectural finishes, Hubbell SystemOne Floor Boxes harmonize aesthetics with function and safety.

- UL listed, scrub water compliant
- Plenum rated



AFBS1R6FFNKL



#### Box Design

- One high capacity opening in side for passing low voltage cables through
- One 3/4 and 1/2 inch concentric knockout on side and bottom for power
- Installs in raised access floor tiles or wood floors with thicknesses of 1 to 2 inches
- Installs in 6 inch diameter hole
- One 2 inch knockout on bottom




#### Covers

- Durable die-cast aluminum cover
- 1,000 lbs, static load rated cover
- Cover features one 2 inch conduit hub for low voltage and one 3/4 inch conduit hub for power
- Available in six architectural finishes



#### Safety

- Increased safety with recessed connections
- Low profile flanges meet ADA requirements 
- Cover load rating is 1000 lbs, for a static load applied through a 3 inch dia. mandrel



#### Additional Parts

- Low voltage divider
- Low Voltage Grommet
- Low Voltage Gate
- 2 inch conduit adapter



#### Applications

- Raised access and wood floor applications in commercial and residential buildings

## SystemOne 6 inch Furniture Feed Floor Box, for Raised Access and Wood Floors

### 6 inch Recessed Floor Boxes

Description	Catalog Number
Floor Box with Temporary Installation Cover	<b>AFBS1R6BASE</b>
Floor Box (AFBS1R6BASE) with Brushed Aluminum Finish Cover (AFBS1R6FFCVRALU)	<b>AFBS1R6FFALU</b>
Floor Box (AFBS1R6BASE) with Black Powder Coat Finish (AFBS1R6FFCVRBLK)	<b>AFBS1R6FFBLK</b>
Floor Box (AFBS1R6BASE) with Plated Brushed Brass Finish Cover (AFBS1R6FFCVRBRS)	<b>AFBS1R6FFBRS</b>
Floor Box (AFBS1R6BASE) with Plated Antique Bronze Finish Cover (AFBS1R6FFCVRBRZ)	<b>AFBS1R6FFBRZ</b>
Floor Box (AFBS1R6BASE) with Gray Powder Coat Finish Cover (AFBS1R6FFCVRGRY)	<b>AFBS1R6FFGRY</b>
Floor Box (AFBS1R6BASE) with Plated Satin Nickel Finish Cover (AFBS1R6FFCVRNKL)	<b>AFBS1R6FFNKL</b>

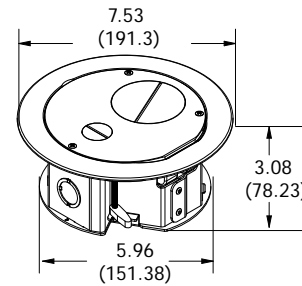


### Replacement Parts

Description	Catalog Number
Low Voltage Divider	<b>AFBS1R6DIV</b>
Low Voltage Grommet	<b>AFBS1R6GROM</b>
Low Voltage Gate	<b>AFBS1R6GATE</b>

### Installation





Hole Diameter	6 inch
Bottom low Voltage Knock out	2 inch
Side low voltage entry	Removable gate, area equal to 2 inch conduit
Bottom Power Knock out	¾" ½" concentric
Side Power knock out	¾" ½" concentric
Fastening	2 pawl arms





### Covers

- Flange Diameter 7.5 inches
- Flange thickness is 1/8 inches thick and complies with ADA requirements
- Cover load rating is 1,000 lbs, for a static load applied through a 3 inch dia. mandrel with 2x safety factor\*

### Architectural Covers

Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate
Brushed Aluminum Finish, with 2 inch and ¾ threaded hubs. <b>AFBS1R6FFCVRALU</b>		Plated Antique Bronze Finish, With 2 inch and ¾ threaded hubs. <b>AFBS1R6FFCVRBRZ</b>	
Plated Brushed Brass Finish, With 2 inch and ¾ threaded hubs. <b>AFBS1R6FFCVRBRS</b>		Plated Satin Nickel Finish, With 2 inch and ¾ threaded hubs. <b>AFBS1R6FFCVRNKL</b>	

### Powder Coated Covers

Description / Catalog Number	Sub-plate
Black Powder Coat Finish, With 2 inch and ¾ threaded hubs. <b>AFBS1R6FFCVRBLK</b>	
Gray Powder Coat Finish, With 2 inch and ¾ threaded hubs. <b>AFBS1R6FFCVRGRY</b>	

Note: \*Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)

# Floor Boxes

## Products at a Glance

This family of furniture and work surface connectivity boxes installs into conference tables and workstations to bring power, voice, data, and multimedia directly to the point of use. In addition, they offer an aesthetic design with improved cable management. Now, users can plug in laptops, projectors and other equipment at the desktop level - no more crawling under the table or moving obstacles to get to the electrical outlet and network connectivity.

## Furniture and Work Surface Connectivity Boxes



### Flush Mount Boxes

Hubbell offers square and rectangular flush mount boxes in a variety of configurations. These boxes are available in stainless steel, anodized aluminum or painted finishes to match any décor. Boxes are designed for easy installation and are available pre-wired or empty for field wiring.



### Lift-up Style Boxes

Offering a convenient and attractive method for work surface power and data connections, these boxes are available in several finishes. When not in use, services are concealed by flipping the unit down.



### 2X2 USB Work Surface Pop-Up Box

Simple push-down method for opening and closing, two 125V receptacles plus two USB charging ports, 3.8 Amps of USB charging, with minimal 5 inch square footprint, pre-wired 5 foot cord, NEMA 5-15P plug. Available in brushed aluminum or black powder coat finishes.

## Table Top Boxes



### Pre-Wired Boxes

Round dual-service boxes easily install into a 3½ inch diameter core hole. Power is pre-wired and keystone openings accommodate data or multi-media activation.



### Pre-Wired Boxes

Configured with 15A power outlet, 15-pin feed through and 3.5mm audio jack. This unit allows for further customization by populating two keystone openings.



### Low Voltage Boxes

Low voltage only units are available pre-loaded with XLR microphone jack or with keystone opening for Hubbell snap-fit modules.



# Floor Boxes

## Furniture and Work Surface Connectivity Boxes



### Square Flush Mount Boxes

Description	Finish	Dimensions	Catalog Number
2-Gang Square Flush Mount Box with Cover.	Black	6.5"L x 6.5"W x 3.75"H	<b>HBLSHA2</b>
2-Gang Square Flush Mount Box with Cover.	Stainless Steel	6.5"L x 6.5"W x 3.75"H	<b>HBLSHA2BSS</b>



HBLSHA2

### Rectangular Flush Mount Boxes

Description	Finish	Dimensions	Catalog Number
2-Gang Rectangular Flush Mount with Cover.	Black	10.75"L x 4.06"W x 3.5"H	<b>HBLPHA2</b>
2-Gang Rectangular Flush Mount with Cover.	Stainless Steel	10.75"L x 4.06"W x 3.5"H	<b>HBLPHA2BSS</b>
4-Gang Rectangular Flush Mount with Cover.	Black	10.75"L x 6.5"W x 3.5"H	<b>HBLPHA4</b>
4-Gang Rectangular Flush Mount with Cover.	Stainless Steel	10.75"L x 6.5"W x 3.5"H	<b>HBLPHA4BSS</b>



HBLPHA2

### Surface Mount Boxes

Description	Finish	Dimensions	Catalog Number
2-Gang Surface Mount Box.	Black	4.19"L x 4.81"W x 2.44"H	<b>HBLCON2</b>
3-Gang Surface Mount Box.	Black	6.19"L x 4.81"W x 2.44"H	<b>HBLCON3</b>



HBLCON2

### Recessed Mount Boxes

Description	Finish	Dimensions	Catalog Number
2-Gang Recessed Mount.	Black	10.25"L x 7.0"W x 5.88"H	<b>HBLMIR2</b>
4-Gang Recessed Mount.	Black	31.0"L x 10.25"W x 5.88"H	<b>HBLMIR4</b>



HBLMIR2

### Under Desk Mount Boxes

Description	Finish	Dimensions	Catalog Number
2-Gang Under Desk Mount.	Black	9.19"L x 3.0"W x 2.88"H	<b>HBLMAR2</b>
3-Gang Under Desk Mount.	Black	13.69"L x 3.0"W x 2.88"H	<b>HBLMAR3</b>



HBLMAR2

### Hubbell – Screw Type Face Plates

	HBLST302SBK	HBLDE301SBK	HBLBL300SBK	HBLIMFSBK	HBL317SBK
<p>Typical</p>					
	Duplex	Style Line® Decorator Opening	Blank	3-Unit Hubbell iSTATION (See Network Wiring section for module options)	Hubbell 6-Port

Note: See page O-30 for open systems screw type face plates.

### Table Top Boxes

#### Low Voltage Only

Description	Finish	Dimensions	Catalog Number
Table Top box; 2 inch diameter hole; (1) keystone opening; Keystone modules sold separately.	Black Anod. Alum. Clear Anod. Alum. Solid Brass	2.19" Diameter	<b>TTBKSBK</b> <b>TTBKSAL</b> <b>TTBKSBR</b>
Table Top box; 2 inch diameter hole; (1) XLR microphone jack installed.	Black Anod. Alum. Clear Anod. Alum. Solid Brass	2.19" Diameter	<b>TTBXLRBK</b> <b>TTBXLRAL</b> <b>TTBXLRBR</b>



TTBKSBK



TTBXLRBK

#### Pre-Wired Dual-Service

Description	Finish	Dimensions	Catalog Number
Table Top box; 3.5 inch diameter hole; (1) pre-wired 15A outlet with 9 foot power supply cord; (1) 3.5mm screw terminal audio jack; (1) 15-pin gender changer F/F; (2) keystone openings; Keystone modules sold separately.	Black Anod. Alum. Clear Anod. Alum. Solid Brass	3.88" Diameter	<b>TTBDS1BK</b> <b>TTBDS1AL</b> <b>TTBDS1BR</b>
Table Top box; 3.5 inch diameter hole; (2) pre-wired 15A outlets with 9 foot power supply cord; (2) keystone openings; Keystone modules sold separately.	Black Anod. Alum. Clear Anod. Alum. Solid Brass	3.88" Diameter	<b>TTBDS2BK</b> <b>TTBDS2AL</b> <b>TTBDS2BR</b>



TTBDS1BK



TTBDS2BK

Note: See section A for power devices and section W for datacom accessories.

## Features and Benefits

### Pre-Wired 2X2 USB Work Surface Pop-Up Box

Hubbell's UL listed 2X2 USB Work Surface Pop-Up Box is ideal for work surfaces, such as desks, which require power for a computer and USB charging for smart devices. Developed with coordination from the hotel industry, the Hubbell Pop-Up Box utilizes a pneumatic spring for providing a smooth action for opening and closing. Available in brushed aluminum or black powder coat, the Pop-Up Box is suited for installation with any modern décor.

Installation is simple and only requires a jig-saw or similar saw plus a screwdriver. The unit is supplied with a 5 foot cord with a molded plug end allowing it to be installed with ease. Designed to be installed into existing desks or by furniture manufactures. The Hubbell 2X2 USB Work Surface Pop-Up Box is ideally suited for any work surface application.

- cULus listed to UL962A for Furniture Power Distribution Units



**WSBUSB2X2ALU**



#### Box Design

- Gas-spring actuation for smooth opening and closing
- Die cast aluminum construction
- Rated for +10,000 open/close cycles
- Simple three-screw installation
- Unobtrusive low profile flange at 0.05 in.
- Charging convenience at the push of a button



#### USB Device

- 15A duplex with two USB charging ports, 3.8A USB charging capacity
- Tamper-resistant receptacle
- LED power indicating light
- Easily replaceable receptacle
- 5 ft, pre-wired, 12 gauge, 3 wire electrical cord - making it excellent for conference rooms or classrooms that are frequently rearranged



**WSBUSB2X2ALU**



**WSBUSB2X2BLK**

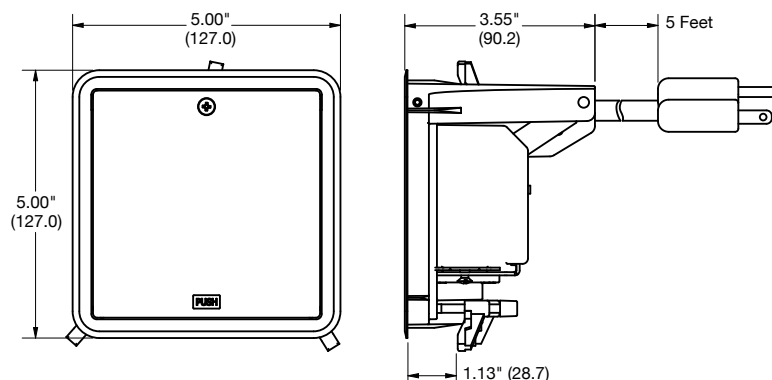
### 2X2 USB Work Surface Pop-Up Box

Surface Dimensions	Cut out dimensions	Product Depth	Maximum Surface Thickness	Finish	Catalog Number
5" x 5"	4.62" x 4.62"	3.55"	1.125"	Brushed Aluminum	<b>WSBUSB2X2ALU</b>
5" x 5"	4.62" x 4.62"	3.55"	1.125"	Black Powder Coat	<b>WSBUSB2X2BLK</b>

### Electrical Specifications

Voltage	Current	USB Charging Current	Plug Type	Cord Length
125V	15A	3.8A	NEMA 5-15P	5 Feet

### Dimensions



Dimensions in Inches (mm)

## Pre-Wired Furniture and Work Surface Connectivity Boxes, Surface Series

### Square Lift-Up Style

Description	Finish	Dimensions	Catalog Number
Two (2) pre-wired 15A outlets with 6 ft. power supply cord; 1-Unit opening for Hubbell iSTATION modules. Unit rotates up when in use and down to conceal services when not in use.	Black Silver	5.75"L x 5.39"W x 4.25"H	<b>WSBC21UBK</b> <b>WSBC21USV</b>



**WSBC21UBK**

### Square Mini Lift-Up Style

Description	Finish	Dimensions	Catalog Number
One (1) pre-wired 15A outlet with 9 ft. power supply cord; One (1) RJ-45 jack installed with 6 ft. patch cord.	Black Brushed Stainless Steel	3.7"L x 3.7"W x 2.93"H	<b>WSBA11BK</b> <b>WSBA11BSS</b>
Two (2) pre-wired 15A outlets with 9 ft. power supply cord (power only).	Black Brushed Stainless Steel	3.7"L x 3.7"W x 2.93"H	<b>WSBA2BK</b> <b>WSBA2BSS</b>



**WSBA11BK**

### Under Table Mount

Description	Finish	Dimensions	Catalog Number
Two (2) pre-wired 15A outlets with 9 ft. power supply cord; One (1) Low Voltage Plate included with 1-Unit opening for Hubbell iSTATION modules.	Black	6.50"L x 1.75"W x 2.25"H	<b>WSBD21UBK</b>



**WSBD21UBK**

### Work Surface Mount

Description	Finish	Dimensions	Catalog Number
One (1) pre-wired 15A outlet with 9 ft. power supply cord; One (1) Hubbell Keystone opening.	Black Silver	3.57"L x 2.19"W x 2.50"H	<b>WSBE11BK</b> <b>WSBE11SV</b>
Two (2) pre-wired 15A outlets with 9 ft. power supply cord; Two (2) Hubbell Keystone openings.	Black Silver	6.32"L x 2.19"W x 2.50"H	<b>WSBE22BK</b> <b>WSBE22SV</b>
Three (3) pre-wired 15A outlets with 9 ft. power supply cord; One (1) Low Voltage Plate included with 1-Unit opening for Hubbell iSTATION modules.	Black Silver	8.25"L x 2.19"W x 2.50"H	<b>WSBE31UBK</b> <b>WSBE31USV</b>
Mounting bracket with thumb screw (optional).	n/a	n/a	<b>WSBECLAMP</b>



**WSBE22SV**

### Recessed Concealed Services

Description	Finish	Dimensions	Catalog Number
Two (2) pre-wired 15A outlets with 6 ft. power supply cord; One (1) Low Voltage Plate included with 1-Unit opening for Hubbell iSTATION modules; Two (2) additional 1-Unit openings provided in base of unit.	Black Brushed Anod. Alum. Brushed Stainless Steel	8.98"L x 5.47"W x 2.97"H	<b>WSBB23UBK</b> <b>WSBB23UBAL</b> <b>WSBB23UBSS</b>
Four (4) pre-wired 15A outlets with 6 ft. power supply cord; Two (2) 1-Unit opening for Hubbell iSTATION modules provided in base of unit.	Black Brushed Anod. Alum. Brushed Stainless Steel	8.98"L x 5.47"W x 2.97"H	<b>WSBB43UBK</b> <b>WSBB43UBAL</b> <b>WSBB43UBSS</b>
Empty Enclosure with one (1) duplex opening, One (1) Low Voltage Plate included with 1-Unit opening for Hubbell iSTATION modules; Two (2) additional 1-Unit openings provided in base of unit; intended for field wiring.	Black	8.98"L x 5.47"W x 2.97"H	<b>WSBBHWBK</b>



**WSBB23UBK**

## Pre-Wired Furniture and Work Surface Connectivity Boxes, Surface Elite Series

### Grommet Style



**WSBF22BK**



**WSBFGROMSV**

Description	Finish	Dimensions	Catalog Number
Two (2) pre-wired 15A outlets with 6 ft. power supply cord; two (2) Hubbell Keystone openings.	Black Silver	8.62"L x 3.0"W x 2.25"H	<b>WSBF22BK</b> <b>WSBF22SV</b>
Flush grommet cover with dust shield.	Black Silver Brushed Aluminum Brushed Stainless Steel	5.68"L x 3.39"W x 0.96"H	<b>WSBFGROMBK</b> <b>WSBFGROMSV</b> <b>WSBFGROMBAL</b> <b>WSBFGROMBSS</b>



**WSBFGROMBK**



**WSBFGROMSV**



**WSBFGROMBAL**



**WSBFGROMBSS**

## Pre-Wired Work Surface Elite Series

### Recessed Concealed Services



**WSBG43USV**

(cover doors shown open)

Description	Finish	Dimensions	Catalog Number
Four (4) pre-wired 15A outlets with 6 ft. power supply cord; three (3) new voltage openings which allow for three (3) 1-unit Hubbell iSTATION modules.	Black Silver Clear Anodized Black Anodized	15.0"L x 9.0"W x 6.25"H	<b>WSBG43UBK</b> <b>WSBG43USV</b> <b>WSBG43UBAL</b> <b>WSBG43UBBA</b>

### Pop-Up Style\*



**WSBH42U with WSBHTRBK**

Description	Finish	Dimensions	Catalog Number
Base unit with four (4) pre-wired 15A outlets with 6 ft. power supply cord; two (2) low voltage plates included with 1-unit opening for Hubbell iSTATION modules.	—	8.90"L x 8.90"W x 13.9"H	<b>WSBH42U*</b>
Trim ring and decorative round top.	Black Brushed Stainless Steel	5.25" Diameter 5.25" Diameter	<b>WSBHTRBK</b> <b>WSBHTRBSS</b>

Note: \*WSBH42U is CSA Certified only.

### Replacement Low Voltage Data Plates



**WSBPLATE1**



**WSBPLATE2**

Description	Finish	Dimensions	Catalog Number
Non-metallic low voltage plate, blank.	Black	3.18"L x 1.88"W	<b>WSBPLATE1</b>
Non-metallic low voltage plate, 1-unit Hubbell iSTATION cut-out.	Black	3.18"L x 1.88"W	<b>WSBPLATE2</b>

# Floor Boxes

## Features and Benefits

### AV In-Wall Enclosure

Hubbell's netSELECT® Flat Panel Television (FPTV) connection enclosure delivers high-density connectivity and power in the wall. This allows flat panel displays and interactive "smart" boards to sit flush against walls with no dangling cords. It quickly installs to studs or sheetrock without additional components or hardware.

- Optional screw on cover reduces tampering
- cULus 1863 Listed



NSAV62M



#### Box Design

- Flush against walls installation
- Sheet metal base white powder coat finish
- Accepts standard electrical boxes
- Integrated cable management



#### Mounting

- Multiple device mounting options
- 1½ and 1¼ inch conduit knockouts
- Easily mounts to studs or sheetrock
- Easily replaceable receptacle
- Trim ring covers rough in

### FPTV Connection Enclosure

Description	Color	Catalog Number
2-Gang In-Wall enclosure.	White	<b>NSAV62M</b>
Steel cover for NSAV6 series.	White	<b>NSAV6C</b>
4-Gang In-Wall enclosure.	White	<b>NSAV124M</b>
Steel cover for NSAV12 series.	White	<b>NSAV12C</b>

### Power Kits (For use with NSAV62M only)

Description	Color	Catalog Number
Standard power kit.	White	<b>NSOKPTR</b>
Surge protected power kit.	Blue	<b>NSOKPS</b>

### AV Connectors and Plates

Description	Color	Catalog Number
1-Gang blank plate.	White	<b>NP14W</b>
1-Gang decorator plate.	White	<b>NP26W</b>
1-Gang Hubbell iSTATION plate.	White	<b>IMF1W</b>
1-Gang 4-port Keystone plate.	White	<b>NSP14W</b>
1-Port HDMI frame.	White	<b>NS801W</b>
2-Port HDMI frame.	White	<b>NS802W</b>
HDMI snap fit.	White	<b>SFHC14W</b>
F-connector snap fit.	White	<b>NSF70W</b>
Usb A-to-B snap fit.	White	<b>SFUSBABW</b>
Cat 6 snap fit jack.	White	<b>NSJ6W</b>

Note: See Network Wiring section for other connector options.



### AV Ceiling Enclosure

The AV Ceiling Enclosure is designed to work with active AV devices to integrate AV distribution, data connections and power in one location, providing a direct connection to a projector or a display device. An additional AV/data kit can be added or customized to address all connector, mounting and patching needs, reducing multiple pieces on site.

- Manage multiple applications inside one enclosure
- Flush mounted, white enclosure for consistent look when mounted in the ceiling
- Loaded with two Hubbell 20A duplex receptacles and a 2-gang back box
- All steel rugged construction provides the ultimate strength for installation



AVCE1H

### AV Ceiling Enclosure

Description	Height Inches (mm)	Width Inches (mm)	Depth Inches (mm)	Color	Catalog Number
AV ceiling enclosure.	12" (305)	24" (610)	8" (203)	White	<b>AVCE1H</b>

Note: Enclosure includes two 20 amp duplex receptacles and 2-gang back box.



## Gangable AV and Large Capacity Wall Boxes



HBL985



HBL985 and HBL986 with HBL989 Low Voltage Partition



HBL986



HBL989

### Gangable AV Wall Boxes

Box	Dimensions	Top Knockouts	Bottom Knockouts	Back Knockouts	Catalog Number
2-Gang, 2 in. KO, 54 in. <sup>3</sup> capacity	H: 4.21 in. W: 4.06 in. D: 4.0 in.	(2) ½" (2) ½" - ¾" TKO*	(1) 1", 1¼", 1½" and 2"	(2) ½" - ¾" TKO	<b>HBL985</b>
3-Gang, 2 in. KO, 79 in. <sup>3</sup> capacity	H: 4.21 in. W: 5.87 in. D: 4.0 in.	(3) ½" (3) ½" - ¾" TKO*	(1) ½" (1) ½" - ¾" TKO* (1) 1", 1¼", 1½" and 2"	(3) ½" - ¾" TKO	<b>HBL986</b>
4-Gang, 2 in. KO, 104 in. <sup>3</sup> capacity	H: 4.21 in. W: 7.69 in. D: 4.0 in.	(4) ½" (4) ½" - ¾" TKO*	(1) ½" (1) ½" - ¾" TKO* (2) 1", 1¼", 1½" and 2"	(4) ½" - ¾" TKO	<b>HBL987</b>
6-Gang, 2 in. KO, 154 in. <sup>3</sup> capacity	H: 4.21 in. W: 11.31 in. D: 4.0 in.	(6) ½" (6) ½" - ¾" TKO*	(1) ½" (1) ½" - ¾" TKO* (2) 1", 1¼", 1½" and 2"	(6) ½" - ¾" TKO	<b>HBL988</b>

Note: \*TKO (Tangential Knockout).

### Low Voltage AV Wallbox Partitions

Compatible With	Compatible Mud Ring Depth	Description	Quantity	Catalog Number
HBL985 and HBL986	½", ¾" and 1¼"	Solid divider	1	<b>HBL989</b>
		With pass-thru capability	1	<b>HBL989AVD</b>



HBL260



Front



Back (Cutaway)



Front



Back (Cutaway)

Note: Cutaway images are for demonstration purposes only.

### 2-Gang Large Capacity Wall Box - 66.7 Cubic Inch Capacity

Description	Dimensions	Knockouts Sides*	Knockouts Back*	Catalog Number
Square 2-gang wall box	4 <sup>11</sup> / <sub>16</sub> "H x 4 <sup>11</sup> / <sub>16</sub> "W x 3¼"D	(2) ¾" - 1" TKO; (2) 1" - 1¼" TKO; (2) 1" - 2" conc. KO	(2) ¾" - 1" TKO (2) ½" TKO	<b>HBL260</b>

Note: Use with industry standard 4<sup>11</sup>/<sub>16</sub>" square mud rings for 1- or 2-gang applications.

\*TKO (Tangential Knockout)

### 3-Gang Large Capacity Wall Box - 113.3 Cubic Inch Capacity

Description	Dimensions	Knockouts Sides	Knockouts Back	Catalog Number
Square 2 or 3-gang wall box	4 <sup>11</sup> / <sub>16</sub> "H x 7¾"W x 3¼"D	(4) ½" - ¾" TKO, (4) ¾" - 1" TKO, (2) 1" - 1¼" TKO, (2) 1" - 2" conc. KO	(2) ½" - ¾" TKO, (2) ¾" - 1" TKO, (2) 1" - 1¼" TKO	<b>HBL263</b>

Note: Use with industry standard 4" square mudrings for 1- or 2-gang applications.

### 2-Gang Mud Rings - Compatible with HBL260

Description	Capacity (cu. in.)	Catalog Number
⅝" height	7.3	<b>HBL818</b>
¾" height	8.8	<b>HBL840</b>
1" height	12.0	<b>HBL819</b>
1¼" height	15.0	<b>HBL820</b>

### 3-Gang Mud Rings - Compatible with HBL263

Description	Capacity (cu. in.)	Catalog Number
½" height	10.1	<b>HBL792</b>
⅝" height	12.3	<b>HBL793</b>
1¼" height	24.3	<b>HBL794</b>



HBL792



HBL794



HBL981

### Low Voltage Partitions

Compatible With	Compatible Mud Ring Depth	Description	Quantity	Catalog No.
HBL260 and HBL263	½", ¾" and 1¼"	Solid divider	1	<b>HBL981</b>
		With pass-thru capability	1	<b>HBL981AVD</b>

# SECTION P

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# Fire-Rated Poke-Throughs

## Products at a Glance

Hubbell's SystemOne Recessed Fire-Rated Poke-Throughs (FRPT) enhances functionality providing increased power, data and audio visual capacity. Safety is improved with recessed connectivity, a low profile flange, and egress doors that hinge inwards. Building value is enhanced with plated finishes to match and blend with modern building décor.

### Hubbell SystemOne Recessed FRPTs for 8 Inch Core Hole Applications...



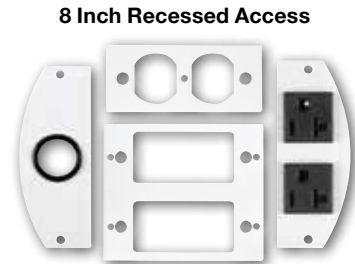
#### High Capacity Multimedia Applications

Sub-plate layout for the center three gangs of the eight inch FRPT allows for maximum audio visual capacity. The NEMA spacing allows the product flexibility to easily accept 3rd party products.



#### High Capacity Multimedia Applications

Perimeter sub plates for the eight inch FRPT help compliment the audio visual or data in the center three gangs. Additionally these plates can be exchange for other low voltage compatible plates.



8 Inch Recessed Access

Center Sub-Plates  
with Outer Sub-plates

### Hubbell SystemOne Recessed FRPTs for 6 Inch Core Hole Applications...



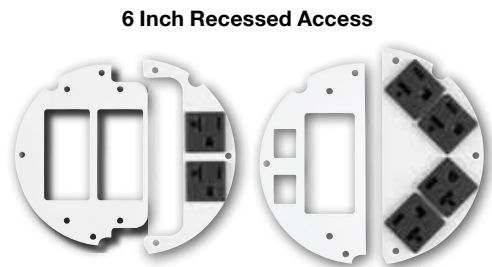
#### 60/40 6 Inch Sub-Plate Split

An Industry first, the 60/40 sub-plate layout allows for unmatched capacity with up to 12 keystone jacks and one 20A duplex.



#### 50/50 6 Inch Sub-Plate Split

Two duplexes with ample audio/video and data are achieved by using the 50/50 sub-plate layout. Additionally this layout will accommodate two Style Line® devices for GFCI, surge, etc. applications.



6 Inch Recessed Access

60/40 split  
Sub-Plates

50/50 split  
Sub-Plates

### Hubbell SystemOne Recessed FRPTs for 4 Inch Core Hole Applications...



#### 4 Inch Quad Sub-Plate

The quad sub-plate can be wired on one circuit or two and includes 12 inch of stranded 14 AWG wire.



#### 4 Inch 2X2 Sub-Plate

The 2x2 sub plates are available with Style Line® or traditional duplex openings and can accommodate up to two keystone jacks.



4 Inch Recessed Access

Quad Sub-Plate

Multi & Single Service  
Sub-Plates



# Fire-Rated Poke-Throughs

## Products at a Glance

Featuring the innovative SystemOne product line, Hubbell's offering of Fire-Rated Poke-Throughs (FRPT) products provide installers with a broad range of options to support a wide array of connections. Hubbell SystemOne flush FRPTs install in a 4 inch core hole and provide users the flexibility to create personal solutions for their most demanding applications.

## Hubbell SystemOne FRPTs for 4 Inch Core Hole Applications...



### Multi-Service Applications

This Hubbell SystemOne sub-plate incorporates two Style Line® rectangular openings. These can be used for a variety of power and/or data applications. It will accommodate 15 or 20 amp, standard, isolated ground, GFCI or surge protected receptacles. Using communication frames it can provide up to a 6-port multi-service or a 12-port all communication solution.



### Multimedia Applications

Other Hubbell SystemOne sub-plates are designed to meet the growing needs of the audio and video markets. Some sub-plates provide power outlets with Hubbell's audio/video products including 15-pin SVGA, RCA, S-Video, 3.5mm stereo, and XLR microphone jacks. Other sub-plates can accommodate Extron® Electronics MAAP and AAP series audio/video modules.



### 4X4 Applications

Provides maximum power capacity for flush, multi-service applications. This sub-plate features a pre-wired four outlet 20A, 125V receptacle and four openings for Hubbell's Snap Fit, flush mount modular jacks and audio/video connectors.

## Traditional FRPTs for 3 Inch and 2 Inch Core Hole Applications...



### Flush Applications

Hubbell offers a variety of single and multi-service flush fire-rated poke-through products. It incorporates a Hubbell Style Line®, 20 amp, duplex receptacle and two Hubbell Category 5e data jacks. The jacks mount flush to the cover for an unobtrusive appearance. Various colors and all brass versions are available.



### Pedestal Applications

Hubbell offers single and multi-service pedestal style FRPTs for those applications requiring above-the-floor connections. Available in 2, 4 or 6-gang sizes, pedestal FRPTs provide more power and low voltage connections to the desktop than most flush configurations in a 3 Inch core hole.



### Furniture Feed Applications

Hubbell offers single and multiple service flush and pedestal style FRPTs that deliver power and voice/data cabling to feed furniture systems. Various models can feed up to 2 inch conduit and can accommodate up to 36 Category 5e data cables.

*Extron® is a registered trademark of Extron Electronics.*

## Features and Benefits

### Hubbell SystemOne Recessed 4, 6 and 8 Inch System

#### Functionality

- Cables and connections are protected by recessed functionality
- Open architecture sub-plate design
- Dirt ingress reduced by egress door brushes
- Exceeds UL 514A Scrub Requirements with ScrubShield® technology
- Easy selection with common flange for all floor types

#### Value

- Enhance building décor with numerous finishes
- Increase durability and longevity with cast aluminum covers

#### Online Resources

- BIM models, customer drawings and technical specifications are available on [www.hubbell-wiring.com](http://www.hubbell-wiring.com)



**S1R8PTFIT2**



#### Safety

- Low profile flange, 0.15 inch exceeds ADA requirements
- Hide-away egress doors fold under cover while in use
- 180° opening of main door



#### 6 Inch Sub-Plate Features

##### 60/40 Device Plate Combinations

- Allows for a wide array of data and audio visual connectivity with a 20A duplex receptacle
- The two plates can be independently wired



#### 8 Inch Sub-Plate Features

##### Center Plate Configurations

- Allows for three duplex receptacles or up to 18 data and/or audio visual jacks
- Open architecture sub-plate design accommodates Extron®, Crestron®, FSR®, etc.
- NEMA spacing between devices
- All plates can be independently wired



#### 6 Inch Sub-Plate Features

##### 50/50 Device Plate Combinations

- Accommodates up to two 20A duplex receptacles with eight data or audio visual connections
- The two plates can be independently wired



#### 8 Inch Sub-Plate Features

##### Outer Plate Configurations

- Available in pre-wired 20A duplex receptacles or data/AV plates
- Multiple 20A duplex receptacles can be wired to a common circuit or independently



#### 4 Inch Sub-Plate Features

##### Plate Configurations

- Quad receptacle sub-plate, single or dual circuit wiring
- 2x2 sub plate for decorator or traditional receptacles plus two keystone jacks
- Since service decorator or traditional sub-plates



## How to Order 4, 6 and 8 Inch SystemOne Products

### STEP 1: Select Poke-Through

8 Inch Recessed Access



6 Inch Recessed Access



6 Inch Furniture Feed

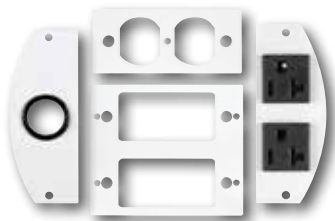


4 Inch Recessed Access



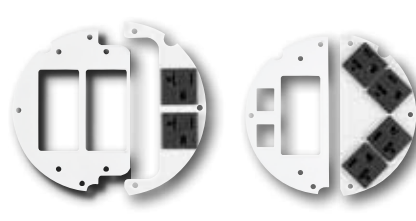
### STEP 2: Select Sub-Plates

8 Inch Recessed Access



Center Sub-Plates with Outer Sub-plates

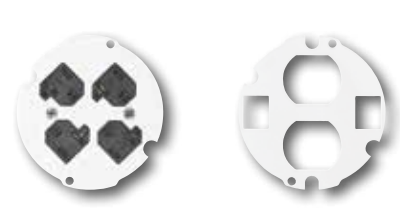
6 Inch Recessed Access



60/40 split Sub-Plates

50/50 split Sub-Plates

4 Inch Recessed Access



Quad Sub-Plates

2X2 Sub-Plates

Note: Furniture feed model does not use sub-plates.

### STEP 3: Select Cover Finishes



Black Powder Coat



Bronze Plated Finish



Brushed Brass Plated



Satin Nickel Plated



Brushed Aluminum

### Recommended Fire-Rated Poke-Through Size Chart

To avoid over or under utilizing the capacity of the fire-rated poke-through, first determine how many gangs of power, data and AV are required for the application. The matrix below will guide you to the correct poke-through size.

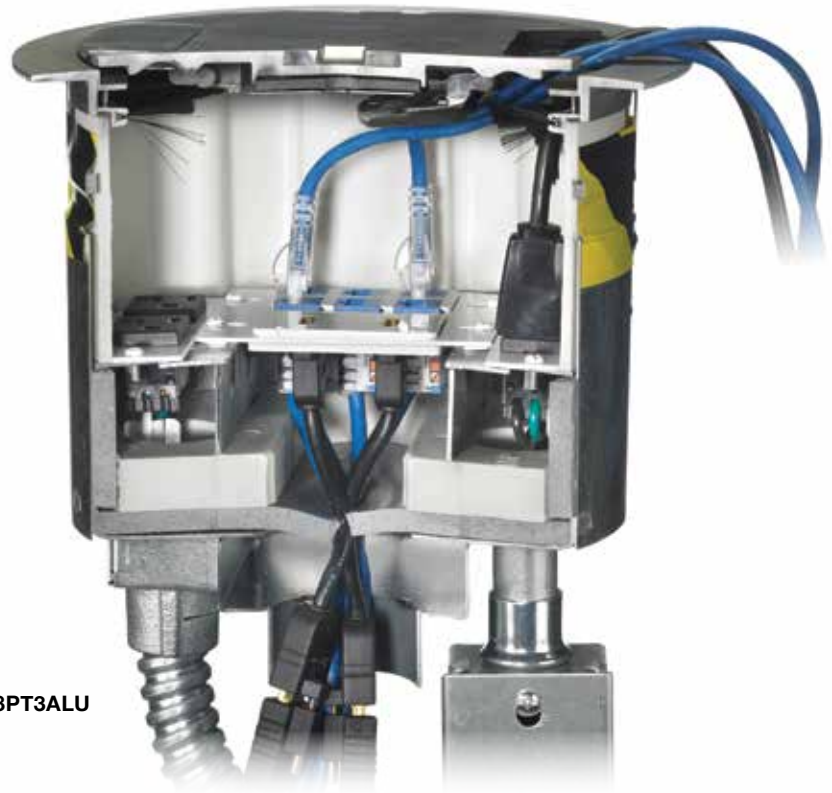
		Recommended Fire-Rated Poke-Through Size						
POWER GANGS	5	8"	Exceeds capacity					
	4	8"	8"	of Hubbell recessed				
	3	6"	8"	8"	poke-throughs			
	2	6"	6"	8"	8"			
	1	4"	6"	6"	8"	8"		
	0	—	4"	6"	8"	8"	8"	
		0	1	2	3	4	5	
		DATA AND AV GANGS						

Example: 2-gangs of power, 1-gang of AV and 1-gang of data is required. Find the intersection for 2 power gangs with 2 data/AV gangs. The highlighted intersection defines the recommended FRPT.

## Features and Benefits

### SystemOne Recessed 8 Inch Fire-Rated Poke-Through Fittings

- Step down installation
- Maintains concrete floor fire rating up to two hours
- Junction box standard
- For use in the City of Chicago applications, junction box is NOT included
- Features ScrubShield® technology that exceeds UL514A scrub water exclusion requirements



S1R8PT3ALU



#### FRPT Design

- Step down installation
- Flexible single or dual service
- Recessed connections



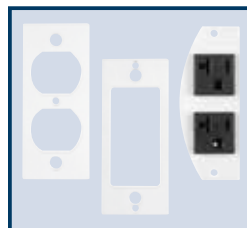
#### Covers

- Durable die-cast aluminum cover
- 1,000 lbs, static load rated cover
- Available in six architectural finishes



#### Chamber

- Recessed 3.5 inch connectivity chamber
- Large wiring compartments
- Fixed wiring chamber
- On-site exchangeable center compartment fitting
- Standard 3/4-inch EMT



#### Easy Mount Device Plates

- Multiple, open architecture mounting plates for power, data and AV



#### Safety

- Low profile flange, 0.15 inch exceeds ADA requirements
- Hide-away egress doors fold under cover while in use
- 180° opening of main door



#### 8 Inch Sub-Plate Features

- Center and outer plate configurations
- Available in pre-wired 20A duplex receptacles or data/AV plates
- Multiple 20A duplex receptacles can be wired to a common circuit or independently
- NEMA spacing between devices

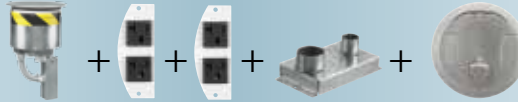
## SystemOne Recessed 8 Inch Core Hole Kits

### Pre-Wired 8 Inch Fire-Rated Poke-Through Kit

Assembled unit includes:

- (1) Hubbell SystemOne 8 inch floor fitting (S1R8PTFIT1)
- (4) 20A, pre-wired receptacles, 18 inch wire lead, two pieces (S1R8PSPZ)
- (1) Fitting connection box with 1 inch and 1½ inch EMT stubs (S1R8JNC1)
- (1) 8 inch flange and universal cover assembly (S1R8CVRxx)

Receptacles feature single circuit wiring



Finish	Catalog Number
Brushed Aluminum	<b>S1R8PTZZ1ALU</b>
Black Powder Coat	<b>S1R8PTZZ1BLK</b>
Brass Plated	<b>S1R8PTZZ1BRS</b>
Antique Bronze Plated	<b>S1R8PTZZ1BRZ</b>
Nickel Plated	<b>S1R8PTZZ1NKL</b>



### 8 Inch Fire-Rated Poke-Through Kit

Assembled unit includes:

- (1) Hubbell SystemOne 8 inch floor fitting (S1R8PTFIT1)
- (1) Fitting connection box with 1 inch and 1½ inch EMT stubs (S1R8JNC1)
- (1) 8 inch flange and universal cover assembly (S1R8CVRxx)



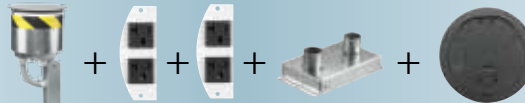
Finish	Catalog Number
Brushed Aluminum	<b>S1R8PT1ALU</b>
Black Powder Coat	<b>S1R8PT1BLK</b>
Brass Plated	<b>S1R8PT1BRS</b>
Antique Bronze Plated	<b>S1R8PT1BRZ</b>
Nickel Plated	<b>S1R8PT1NKL</b>

### Pre-Wired 8 Inch Fire-Rated Poke-Through Kit

Assembled unit includes:

- (1) Hubbell SystemOne 8 inch floor fitting (S1R8PTFIT2)
- (4) 20A, pre-wired receptacles, 18 inch wire lead, two pieces (S1R8PSPZ)
- (1) Fitting connection box with (2) 1 inch EMT stubs (S1R8JNC2)
- (1) 8 inch flange and universal cover assembly (S1R8CVRxx)

Receptacles feature single circuit wiring



Finish	Catalog Number
Brushed Aluminum	<b>S1R8PTZZ2ALU</b>
Black Powder Coat	<b>S1R8PTZZ2BLK</b>
Brass Plated	<b>S1R8PTZZ2BRS</b>
Antique Bronze Plated	<b>S1R8PTZZ2BRZ</b>
Nickel Plated	<b>S1R8PTZZ2NKL</b>



### 8 Inch Fire-Rated Poke-Through Kit

Assembled unit includes:

- (1) Hubbell SystemOne 8 inch floor fitting (S1R8PTFIT2)
- (1) Fitting connection box with (2) 1 inch EMT stubs (S1R8JNC2)
- (1) 8 inch flange and universal cover assembly (S1R8CVRxx)



Finish	Catalog Number
Brushed Aluminum	<b>S1R8PT2ALU</b>
Black Powder Coat	<b>S1R8PT2BLK</b>
Brass Plated	<b>S1R8PT2BRS</b>
Antique Bronze Plated	<b>S1R8PT2BRZ</b>
Nickel Plated	<b>S1R8PT2NKL</b>

### Pre-Wired 8 Inch Fire-Rated Poke-Through for Data AV Kit

Assembled unit includes:

- (1) Hubbell SystemOne 8 inch floor fitting (S1R8PTFIT3)
- (4) 20A, pre-wired receptacles, 18 inch wire lead, two pieces (S1R8PSPZ)
- (1) Fitting connection box with one 2 inch EMT stubs (S1R8JNC3)
- (1) 8 inch flange and universal cover assembly (S1R8CVRxx)

Receptacles feature single circuit wiring



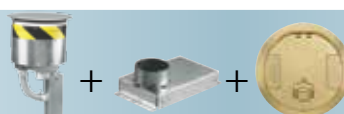
Finish	Catalog Number
Brushed Aluminum	<b>S1R8PTZZ3ALU</b>
Black Powder Coat	<b>S1R8PTZZ3BLK</b>
Brass Plated	<b>S1R8PTZZ3BRS</b>
Antique Bronze Plated	<b>S1R8PTZZ3BRZ</b>
Nickel Plated	<b>S1R8PTZZ3NKL</b>



### 8 Inch Fire-Rated Poke-Through Kit

Assembled unit includes:

- (1) Hubbell SystemOne 8 inch floor fitting (S1R8PTFIT3)
- (1) Fitting connection box with (1) 2 inch EMT stubs (S1R8JNC3)
- (1) 8 inch flange and universal cover assembly (S1R8CVRxx)



Finish	Catalog Number
Brushed Aluminum	<b>S1R8PT3ALU</b>
Black Powder Coat	<b>S1R8PT3BLK</b>
Brass Plated	<b>S1R8PT3BRS</b>
Antique Bronze Plated	<b>S1R8PT3BRZ</b>
Nickel Plated	<b>S1R8PT3NKL</b>

Note: xx indicates finish options.

## SystemOne Recessed 8 Inch FRPT and Covers, for Use In Concrete Floors



**S1R8PTFIT1**



**S1R8PTFIT2CHI**



**S1R8PPT**



**S1R8ADMTBK**



**S1FRPTJB**



**S1R8DIV**



**S1R8JNC1**



**S1R8JNC7**



**S1R8JNC2**



**S1R8JNC9**



**S1R8JNC3**



**S1R8JNC10**



**S1R8JNC4**



**S1R8JNC11**



**S1R8JNC6**



**S1R8JNC12**

### 8 Inch Fire-Rated Poke-Through

Description	Catalog Number
8 Inch Fire-Rated Poke-Through. No Junction box.	<b>S1R8PTFIT</b>
8 Inch Fire-Rated Poke-Through includes: (1) 3/4 inch power EMT plus (1) S1R8JNC1 with (1) 1 inch EMT and (1) 1 1/2 inch EMT.	<b>S1R8PTFIT1</b>
8 Inch Fire-Rated Poke-Through includes: (1) 3/4 inch power EMT plus (1) S1R8JNC2 with (2) 1 inch EMT.	<b>S1R8PTFIT2</b>
8 Inch Fire-Rated Poke-Through includes: (1) 3/4 inch power EMT plus (1) S1R8JNC3 with (1) 2 inch EMT.	<b>S1R8PTFIT3</b>
8 Inch Fire-Rated Poke-Through includes: (1) 3/4 inch power EMT plus (1) S1R8JNC1 with (2) 1 inch EMT and (1) 1 1/2 inch EMT. No Junction box or flexible metal conduit.	<b>S1R8PTFIT1CHI</b>
8 Inch Fire-Rated Poke-Through includes: (1) 3/4 inch power EMT plus (1) S1R8JNC2 with (2) 1 inch EMT. No Junction box or flexible metal conduit.	<b>S1R8PTFIT2CHI</b>
8 Inch Fire-Rated Poke-Through includes: (1) 3/4 inch power EMT plus (1) S1R8JNC3 with (1) 2 inch EMT. No Junction box or flexible metal conduit.	<b>S1R8PTFIT3CHI</b>

Note: See page P-27 for technical information.

### Recessed 8 Inch Cover

8 Inch FRPT Cover Assembly unit includes solid cast aluminum construction, carpet gasket and mounting hardware.



Finish	Catalog Number
Brushed Aluminum	<b>S1R8CVRALU</b>
Black Powder Coat	<b>S1R8CVRBLK</b>
Brushed Brass Plated	<b>S1R8CVRBRS</b>
Antique Bronze Plated	<b>S1R8CVRBRZ</b>
Satin Nickel Plated	<b>S1R8CVRNKL</b>

Note: COVER LOAD RATING: 1,000 lbs with 2x safety factor. Load applied through a 3" (76mm) mandrel in center of the cover. Static loads only.

### 8 Inch Accessories

Description	Catalog Number
Pre-pour tube, includes hardware.	<b>S1R8PPT*</b>
Abandonment plate, black finish.	<b>S1R8ADMTBK</b>
Low voltage replacement divider.	<b>S1R8DIV</b>
Power junction box, 27.0 cubic inches; (1) 3/4 inch and (1) 1 inch EMT connector.	<b>S1FRPTJB</b>

Note: \*Not UL Listed.

### Replacement Fitting Box

Description	Catalog Number
(1) 1 1/2 inch & (1) 1 inch EMT.	<b>S1R8JNC1</b>
(2) 1 inch EMTs.	<b>S1R8JNC2</b>
(1) 2 inch EMT.	<b>S1R8JNC3</b>
(3) 1 inch EMTs.	<b>S1R8JNC4</b>
(1) 1 1/2 inch & (1) 1 1/4 inch EMT.	<b>S1R8JNC5</b>
(2) 1 1/4 inch EMTs.	<b>S1R8JNC6</b>
(1) 3/4 inch & (2) 1 inch EMTs.	<b>S1R8JNC7</b>
(1) 3/4 inch & (1) 1 1/4 inch EMT.	<b>S1R8JNC8</b>
(1) 3/4 inch & (2) 1 1/4 inch EMTs.	<b>S1R8JNC9</b>
(1) 1 1/4 inch & (1) 2 inch EMT.	<b>S1R8JNC10</b>
(1) 1 1/2 inch & (1) 2 inch EMT.	<b>S1R8JNC11</b>
(3) 1 1/4 inch EMTs.	<b>S1R8JNC12</b>



## SystemOne Recessed 8 Inch Sub-Plates

### Center Plate Configurations

- Allows for 3 duplexes or up to 18 data/ AV jacks. Other combinations possible
- Accepts third party AV devices (i.e. Extron®, Crestron®, FSR®)
- Standard NEMA spacing between devices













### Outer Plate Configurations








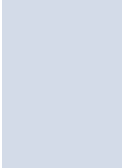


- Available in pre-wired duplexes or openings to accommodate third party AV Devices
- Multiple duplexes can be wired in the supplied junction box or independently






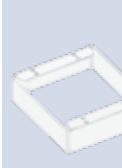
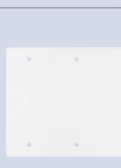

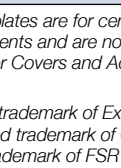
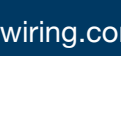
### Center Sub-Plates - Single Gang

Description/Cat. No.	Sub-plate	Description/Cat. No.	Sub-plate
Blank cover plate		(2) Extron® MAAP openings	
<b>S1R8CSPB</b> (1) 1 unit Hubbell iSTATION opening		<b>S1R8CSPC</b> (1) 1.5 unit Hubbell iSTATION opening (See section W for modules)	
<b>S1R8CSPD</b> (1) 1.60" opening for 20A & 30A Twist-Lock®		<b>S1R8CSPE</b> (1) Duplex opening	
<b>S1R8CSPG</b> (1) 1.40" opening for simplex or 15A Twist-Lock®		<b>S1R8CSPI</b> (1) Style Line® Decorator opening	
<b>S1R8CSPJ</b>		<b>S1R8CSPK</b>	

### Outer Sub-Plates

Description/Cat. No.	Sub-plate	Description/Cat. No.	Sub-plate
Blank cover plate		Single Extron® AAP opening	
<b>S1R8PSPU</b> Pull through with 1" bushing opening		<b>S1R8PSPV</b> Single Extron® AAP opening	
<b>S1R8PSPW</b> (1) 1 unit Hubbell iSTATION opening (See section W for modules)		<b>S1R8PSPX</b> Dual 20A pre-wired power cubes; one circuit (Supplied with isolated ground sticker)	
<b>S1R8PSPY</b> Dual 20A pre-wired power cubes; one circuit (Supplied with isolated ground sticker); Marked with "Controlled"		<b>S1R8PSPZ</b> <b>S1R8PSPZ25</b> (25 Inch leads)	
<b>S1R8PSPZC</b>			

### Center Sub-Plates - Two and Three Gang

Two gang; (4) Extron® AAP openings		Two gang; 3 unit Hubbell iSTATION opening (See section W for modules)	
<b>S1R8CSPA</b>		Two gang; device depth extension collar (for use with 3rd party data up to 2.5" depth or two power receptacles)	
<b>S1R8CSPM</b>		<b>S1R8CSPEXT</b>	
Three gang; blank cover plate			
<b>S1R8CSPN</b>			

Note: Rectangle sub-plates are for center compartment, crescent sub-plates are for outer compartments and are not inter-changeable  
See page P-8 for Covers and Accessories.

Extron® is a registered trademark of Extron Electronics.  
Crestron® is a registered trademark of Crestron Electronics, Inc.  
FSR® is a registered trademark of FSR Inc.



## Features and Benefits

### SystemOne Recessed 6 Inch Fire-Rated Poke-Through Fittings

- Step down installation
- Maintains concrete floor fire rating up to two hours
- Junction box standard
- Includes (1) 2 inch data/AV EMT and (1) ¼ inch power EMT
- For use in the City of Chicago applications, junction box is NOT included
- Features ScrubShield® technology that exceeds UL514A scrub water exclusion requirements



S1R6PTWZALU



#### FRPT Design

- Step down installation
- Flexible single or dual service
- Recessed connections



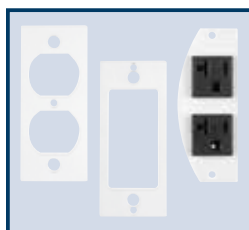
#### Covers

- Durable die-cast aluminum cover
- 1,000 lbs, static load rated cover
- Available in six architectural finishes



#### Chamber

- Recessed 3.5 inch connectivity chamber
- Large wiring compartments divides up to 2.9 inch (73mm) deep
- Low voltage divider
- 2-inch EMT
- ¼-inch EMT



#### Easy Mount Device Plates

- Multiple, open architecture mounting plates for power, data and AV



#### Safety

- Low profile flange, 0.15 inch exceeds ADA requirements
- Hide-away egress doors fold under cover while in use
- 180° opening of main door



#### 6 Inch Sub-Plate Features

##### 60/40 Device Plate Combinations

- Allows for a wide array of data and audio visual connectivity with a 20A duplex receptacle
- The two plates can be independently wired

## SystemOne Recessed 6 Inch Core Hole Kits

### Pre-Wired 60/40 Split 6 Inch Fire-Rated Poke-Through for Data AV Kit

Assembled unit includes:

- (1) Hubbell SystemOne 6 inch floor fitting (S1R6PTFIT)
- (2) Decorator opening sub-plate (S1R6SPW)
- (2) 20A, pre-wired receptacle with 18 inch wire leads (S1R6SPZ)
- (1) 6 inch flange and universal cover assembly (S1R6CVRxx)

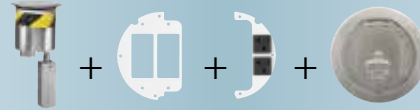
Receptacles feature single circuit wiring.

Finish

- Brushed Aluminum
- Black Powder Coat
- Brass Plated
- Antique Bronze Plated
- Nickel Plated

Catalog Number

- S1R6PTWZALU**
- S1R6PTWZBLK**
- S1R6PTWZBRS**
- S1R6PTWZBRZ**
- S1R6PTWZTNKL**



### Pre-Wired 50/50 Split 6 Inch Fire-Rated Poke-Through for Data AV Kit

Assembled unit includes:

- (1) Hubbell SystemOne 6 inch floor fitting (S1R6PTFIT)
- (4) 1 Unit Hubbell iSTATION openings (S1R6SPD)
- (1) Decorator opening and (2) keystone openings (S1R6SPE)
- (4) 20A, pre-wired receptacles (S1R6SPH)
- (1) 6 inch flange and universal cover assembly (S1R6CVRxx)

Opening architecture Keystone openings accept Hubbell modular jacks and many others.

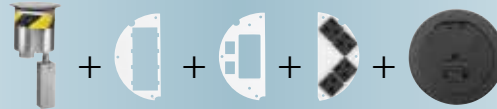
Receptacles feature single or two circuit wiring and isolated ground capability.

Finish

- Brushed Aluminum
- Black Powder Coat
- Brass Plated
- Antique Bronze Plated
- Nickel Plated

Catalog Number

- S1R6PTDEHALU**
- S1R6PTDEHBLK**
- S1R6PTDEHBRS**
- S1R6PTDEHBRZ**
- S1R6PTDEHNKL**



### Pre-Wired 50/50 Split 6 Inch Fire-Rated Poke-Through for Third Party Devices Kit

Assembled unit includes:

- (1) Hubbell SystemOne 6 inch floor fitting (S1R6PTFIT)
- (3) Extron® AAP openings (S1R6SPA)
- (5) Extron® MAPP openings (S1R6SPC)
- (1) Decorator opening and (2) Hubbell keystone openings (S1R6SPE)
- (4) 20A, pre-wired receptacles (S1R6SPH)
- (1) 6 inch flange and universal cover assembly (S1R6CVRxx)

Opening architecture Keystone openings accept Hubbell modular jacks and many others.

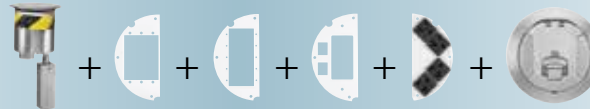
Receptacles feature single or two circuit wiring and isolated ground capability.

Finish

- Brushed Aluminum
- Black Powder Coat
- Brass Plated
- Antique Bronze Plated
- Nickel Plated

Catalog Number

- S1R6PTACEHALU**
- S1R6PTACEHBLK**
- S1R6PTACEHBRS**
- S1R6PTACEHBRZ**
- S1R6PTACEHNKL**



### 6 Inch Fire-Rated Poke-Through with Finished Cover Kit

Assembled unit includes:

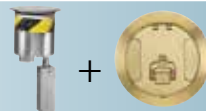
- (1) Hubbell SystemOne 6 inch floor fitting (S1R6PTFIT)
- (1) 6 inch flange and universal cover assembly (S1R6CVRxx)

Finish

- Brushed Aluminum
- Black Powder Coat
- Brass Plated
- Antique Bronze Plated
- Nickel Plated

Catalog Number

- S1R6PTALU**
- S1R6PTBLK**
- S1R6PTBRS**
- S1R6PTBRZ**
- S1R6PTTNKL**



### 6 Inch Fire-Rated Poke-Through for Furniture Feed Applications Kit

Assembled unit includes:

- (1) Hubbell SystemOne 6 inch floor fitting (S1R6PTFIT)
- (1) 6 inch furniture feed flange and cover assembly (S1R6FFCVRxx)
- (1) 2 inch conduit fitting
- (1) 3/4 inch conduit fitting

Finish

- Brushed Aluminum
- Black Powder Coat
- Brass Plated
- Antique Bronze Plated
- Nickel Plated

Catalog Number

- S1R6PTFFALU**
- S1R6PTFFBLK**
- S1R6PTFFBRS**
- S1R6PTFFBRZ**
- S1R6PTFFNKL**



Note: xx indicates finish options.

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## SystemOne Recessed 6 Inch FRPT and Covers, for Use In Concrete Floors



**S1R6PTFIT**



**S1R6PTFITCHI**



**S1R6PPT**



**S1R6ADMTBK**



**S1FRPTJB**



**S1R6DIV**



**S1R6SPEXT**



**S1RFFFIT2**



**S1RPLUG2ALU**



**S1RPLUG075ALU**

### 6 Inch Fire-Rated Poke-Through

Description	Catalog Number
6 Inch Fire-Rated Poke-Through.	<b>S1R6PTFIT</b>
6 Inch Fire-Rated Poke-Through; for use in the City of Chicago.	<b>S1R6PTFITCHI</b>

Note: See page P-28 for technical information.

### Recessed 6 Inch Cover

6 Inch Fire-Rated Poke-Through cover assembled unit includes solid cast aluminum construction, carpet gasket and mounting hardware.



Finish	Catalog Number	Furniture Feed Option
Brushed Aluminum	<b>S1R6CVRALU</b>	<b>S1R6FFCVRALU</b>
Black Powder Coat	<b>S1R6CVRBLK</b>	<b>S1R6FFCVRBLK</b>
Brushed Brass Plated	<b>S1R6CVRBRS</b>	<b>S1R6FFCVRBRS</b>
Antique Bronze Plated	<b>S1R6CVRBRZ</b>	<b>S1R6FFCVRBRZ</b>
Satin Nickel Plated	<b>S1R6CVRNKL</b>	<b>S1R6FFCVRNKL</b>

Note: COVER LOAD RATING: 1,000 lbs with 2x safety factor. Load applied through a 3" (76mm) mandrel in center of the cover. Static loads only.

### 6 Inch Accessories

Description	Catalog Number
Pre-pour tube, includes hardware.	<b>S1R6PPT*</b>
Abandonment plate, black finish.	<b>S1R6ADMTBK</b>
Low voltage replacement divider.	<b>S1R6DIV</b>
Power junction box, 27.0 cubic inches; (1) 3/4 inch and (1) 1 inch EMT connector.	<b>S1FRPTJB</b>
1 1/2 inch extension kit.	<b>S1R6SPEXT</b>

Note: \*Not UL Listed.

### Replacement Furniture Feed Fitting

Description	Catalog Number
2 inch Furniture feed fitting.	<b>S1RFFFIT2</b>

### Replacement Plugs

Finish	2 Inch	3/4 Inch
Aluminum	<b>S1RPLUG2ALU</b>	<b>S1RPLUG075ALU</b>
Black	<b>S1RPLUG2BLK</b>	<b>S1RPLUG075BLK</b>
Brass	<b>S1RPLUG2BRS</b>	<b>S1RPLUG075BRS</b>
Bronze	<b>S1RPLUG2BRZ</b>	<b>S1RPLUG075BRZ</b>
Nickel	<b>S1RPLUG2NKL</b>	<b>S1RPLUG075NKL</b>

## SystemOne Recessed 6 Inch Sub-Plates

### 60/40 Device Plate Combination

- Allows for up to twelve data/AV jacks plus a 20A duplex receptacle
- Two plates which can be wired independently









### 50/50 Device Plate Combination




- Allows for up to eight Hubbell data jacks plus two 20A duplex receptacles
- Two plates which can be wired independently



### Left 60% Sub-Plates










Description/Cat. No.	Sub-plate	Description/Cat. No.	Sub-plate
(2) Style Line® Decorator openings, left side only		(1) Style Line® Decorator and (2) 1.5 unit Hubbell iSTATION openings, left side only	
<b>S1R6SPT</b>		<b>S1R6SPU</b>	
(1) Style Line® Decorator and (2) Extron® MAAP openings, left side only		(2) Style Line® Decorator openings, left side only	
<b>S1R6SPV</b>		<b>S1R6SPW</b>	
(1) Style Line® Decorator and (2) Extron® AAP openings, left side only		(1) Style Line® Decorator and (2) 1.5 unit Hubbell iSTATION openings, left side only (See section W for modules)	
<b>S1R6SPX</b>		<b>S1R6SPY</b>	

### Right 40% Sub-Plates




(2) 20A pre-wired receptacles; 16 inch lead; one circuit, right side only (Supplied with isolated ground sticker)		(2) 20A pre-wired receptacles; 25 inch lead; one circuit, right side only (Supplied with isolated ground sticker)	
<b>S1R6SPZ</b>		<b>S1R6SPZ25</b>	
(2) 20A pre-wired receptacles; 16 inch lead; one circuit, right side only (Supplied with isolated ground sticker); Marked with "Controlled"			
<b>S1R6SPZC</b>			

Note: Sub-plates can not be rotated to create additional layouts. When assembled, sub-plates can not overlap. Custom Plates available upon request and may be subject to minimum order quantity. See page P-12 for Covers and Accessories.

### Left 50% Sub-Plates

Description/Cat. No.	Sub-plate	Description/Cat. No.	Sub-plate
(3) Extron® AAP plate openings, left side only		Blank cover plate, left side only	
<b>S1R6SPA</b>		<b>S1R6SPB</b>	
(5) Extron® MAAP plate openings, left side only		(4) 1 unit Hubbell iSTATION openings, left side only (See section W for modules)	
<b>S1R6SPC</b>		<b>S1R6SPD</b>	
(1) Style Line® Decorator and (2) Hubbell keystone openings, left side only		(2) 1.5 unit Hubbell iSTATION openings, left side only (See section W for modules)	
<b>S1R6SPE</b>		<b>S1R6SPF</b>	
(3) Extron® MAAP openings and (2) Hubbell keystone jack openings, left side only		(1) Style Line® Decorator opening, left side only	
<b>S1R6SPL</b>		<b>S1R6SPM</b>	
(1) Decorator opening and (2) Ortronics® TracJack® openings, left side only			
<b>S1R6SPN</b>			

### Right 50% Sub-Plates

(1) Duplex device opening, right side only		(1) Style Line® Decorator device opening, right side only	
<b>S1R6SPI</b>		<b>S1R6SPK</b>	
(1) 1.60 inch opening for 20A and 30A Twist-Lock®, right side only		(1) 1.40 inch opening for simplex or 15A Twist-Lock®, right side only	
<b>S1R6SPG</b>		<b>S1R6SPJ</b>	
(4) 20A pre-wired receptacles; one or two circuits, right side only (Supplied with isolated ground sticker)		(4) 20A pre-wired receptacles; 16 Inch leads; one or two circuits, right side only; Marked with "Controlled"	
<b>S1R6SPH</b> (16 Inch leads)		<b>S1R6SPHC4</b> (4 Controlled)	
<b>S1R6SPH25</b> (25 Inch leads)		<b>S1R6SPHC2</b> (2 Controlled)	

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## Features and Benefits

### SystemOne Recessed 4 Inch Fire-Rated Poke-Through Fittings

- Step down installation
- Maintains concrete floor fire rating up to two hours
- Junction box standard, 27 cubic inches
- (1) ¾ inch conduit for power and (2) ½ inch conduits for low voltage
- For use in the City of Chicago applications, junction box is NOT included



S1R4PTFIT



#### FRPT Design

- Step down installation
- Flexible single or dual service
- Recessed connections



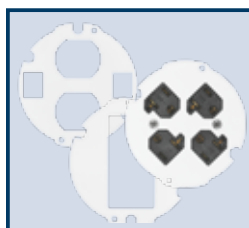
#### Covers

- Durable die-cast aluminum cover
- 1,000 lbs, static load rated cover
- Available in six architectural finishes



#### Chamber

- 3-inch deep user access chamber
- Deep wiring chamber for GFCI and USB devices
- Low voltage dividers
- Two ½ inch EMTs
- One ¾ inch EMT



#### Easy Mount Device Plates

- Field configurable device plates
- Multiple, open architecture mounting plates for power, data and AV



#### Safety

- Low profile flange, 0.15 inch exceeds ADA requirements
- Hide-away egress door folds under cover while in use
- 180° opening of main door



#### 6 Inch Sub-Plate Features

##### 60/40 Device Plate Combinations

- Allows for a wide array of data and audio visual connectivity with a 20A duplex receptacle
- The two plates can be independently wired

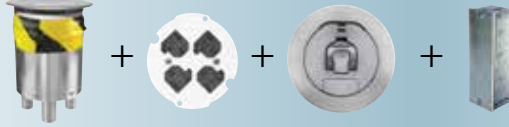


## SystemOne Recessed 4 Inch Core Hole Kits

### One-Piece Pre-Wired, Quad Receptacle, Recessed Connectivity, Fire-Rated Poke-Through for Power Only

Assembled unit includes:

- (1) Hubbell SystemOne 4 inch recessed floor fitting (S1R4PTFIT)
- (1) Hubbell SystemOne 4 inch recessed activation cover (S1R4CVRxx)
- (1) Hubbell pre-wired quad receptacle with mounting plate (S1R4SPQUAD)
- (1) Hubbell Junction box (S1FRPTJB)



Finish	Catalog Number
Brushed Aluminum	<b>S1R4PTQUADALU</b>
Brushed Brass Plated	<b>S1R4PTQUADBRS</b>
Antique Bronze Plated	<b>S1R4PTQUADBRSZ</b>
Satin Nickel Plated	<b>S1R4PTQUADNKL</b>
Black Powder Coat	<b>S1R4PTQUADBLK</b>
Gray Powder Coat	<b>S1R4PTQUADGRY</b>



### One-Piece, Fire-Rated Poke-Through, Recessed Connectivity

Assembled unit includes:

- (1) Hubbell SystemOne 4 inch recessed floor fitting (S1R4PTFIT)
- (1) Hubbell SystemOne 4 inch recessed activation cover (S1R4CVRxx)
- (1) Hubbell Junction box (S1FRPTJB)



Finish	Catalog Number
Brushed Aluminum	<b>S1R4PTALU</b>
Brushed Brass Plated	<b>S1R4PTBRS</b>
Antique Bronze Plated	<b>S1R4PTBRZ</b>
Satin Nickel Plated	<b>S1R4PTNKL</b>
Black Powder Coat	<b>S1R4PTBLK</b>
Gray Powder Coat	<b>S1R4PTGRY</b>



Note: xx indicates finish options.

## SystemOne Recessed 4 Inch FRPT and Covers, for Use In Concrete Floors

### 4 Inch Fire-Rated Poke-Through

Description	Catalog Number
4 Inch FRPT includes: Junction box and low voltage dividers.	<b>S1R4PTFIT</b>
4 Inch FRPT includes: Low voltage dividers, junction box NOT included.	<b>S1R4PTFITCHI</b>
4 Inch FRPT includes: Quad sub-plate and junction box.	<b>S1R4PTQUAD</b>

Note: See page P-29 for technical information.



**S1R4PTFIT**  
**S1R4PTFITQUAD**

### Recessed 4 Inch Cover

Single fold under cable egress door. Unit includes solid cast aluminum construction, carpet gasket and mounting hardware.



Finish	Catalog Number
Brushed Aluminum	<b>S1R4CVRALU</b>
Black Powder Coat	<b>S1R4CVRBLK</b>
Brushed Brass Plated	<b>S1R4CVRBRS</b>
Antique Bronze Plated	<b>S1R4CVRBRZ</b>
Gray Powder Coat	<b>S1R4CVRGRY</b>
Satin Nickel Plated	<b>S1R4CVRNKL</b>

Note: COVER LOAD RATING: 1,000 lbs with 2x safety factor. Load applied through a 3" (76mm) mandrel in center of the cover.  
Static loads only.



**S1R4PTFITCHI**

## SystemOne Recessed 4 Inch Sub-Plates and Accessories

The 4 Inch recessed cover is available in a number of durable, yet beautiful finishes to match any décor. The flange height of 0.15 inch is ADA compliant and suitable for use on any floor finish. All covers are UL514A, scrubwater compliant.



### Device Mounting Plates

Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate	Description / Catalog Number	Sub-plate
2X2 Sub-plate with (1) Style Line® decorator device opening and (2) keystone jack openings <b>S1R4SP2X2STYLE</b>		(1) Style Line® decorator device opening for power or datacom applications <b>S1R4SPSTYLE</b>		2X2 Sub-plate with (1) decorator device opening and (2) Ortronics® TracJack® openings <b>S1R4SP2X2STYLETJ</b>	
2X2 Sub-plate with (1) duplex device opening and (2) keystone jack openings <b>S1R4SP2X2DUPLEX</b>		(1) Duplex device opening for power or datacom applications <b>S1R4SPDUPLEX</b>		2X2 Sub-plate with (1) duplex device opening and (2) Ortronics® TracJack® openings <b>S1R4SP2X2DUPLEXTJ</b>	
(4) Single 20A receptacles. Can be wired as single or two circuit with isolated ground capability, 12 inch wire leads <b>S1R4SPQUAD</b>		(1) 1.60 inch opening for 20 or 30A Twist-Lock® receptacle <b>S1R4SPTWIST</b>		(1) 1.40 inch opening for simplex receptacle <b>S1R4SPSIMPLEX</b>	

Note: See section W for data jacks and frames.



For low light applications (i.e. under tables or podiums) consider using Hubbell's LED illuminated receptacles: HBL8200ILW 15A, LED or HBL8300ILW 20A, LED.

**HBL8300ILW**



**S1R4PPT**



**S1R4DIV**

### 4 Inch Accessories

Description	Catalog Number
Pre-pour tube, includes hardware.	<b>S1R4PPT*</b>
Low voltage replacement divider.	<b>S1R4DIV</b>

Note: \*Not UL Listed.

### Design Solutions for:

Retail, Cafeterias, Commercial Office Space, Mass Transit Hubs, Education.



**Tile**

**Carpet**

**Terrazzo**

For Technical files, including BIM models, CAD files and Customer drawings, please visit [www.hubbell-wiring.com](http://www.hubbell-wiring.com) under the Technical tab.

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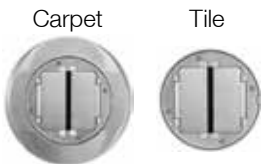
## Features and Benefits

### 4 Inch Core Through Floor Fittings

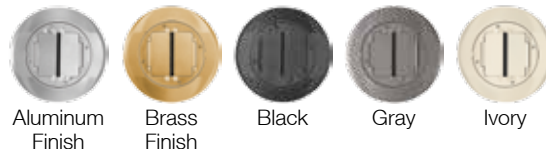


- Step down installation clips allow the fitting to be installed or removed from the floor above
- Fire barrier expands during fire conditions to maintain the floor's fire rating
- Adjustable lower fire barrier accommodates concrete floor thicknesses from 2¼ to 7 inch
- Oversized EMT conduit tubes for increased cable capacity

### Universal Flange and Cover Assembly



- Hinged doors open 180 degrees flush to the carpet flange or tile
- Locking studs allow each door to be secured independently
- The universal carpet or tile flange can be used for Hubbell SystemOne Fire-Rated Poke-Throughs and Floor Boxes
- Finishes and colors available:



### Hubbell SystemOne Flush Sub-Plates

Hubbell's modular sub-plate design allows users to economically upgrade Hubbell SystemOne FRPT and Floor Boxes to accommodate future moves, additions and changes. See page P-20 for additional information.



4x4 Sub-Plate



Datacom and Power Sub-Plate



Extron® APP/MAPP and Power Sub-Plate



Dual Style Line® Decorator Sub-Plate



Twist-Lock® Sub-Plate



Furniture Feed Cover, Carpet

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### Features



- Accepts all Hubbell SystemOne universal covers and flush sub-plates
- Excellent solution for retrofit and new construction
- Delivers power, voice, data and multimedia
- UL listed for use in 1 – 4 hour fire rated floors at 100% rated fill
- Available with integral power junction box
- SystemOne Fire-Rated Poke-Throughs are approved for use in the City of Chicago
- UL installation spacing - minimum 2 feet on center, not more than one per 65 square feet of floor area in each span

### Features

- Durable cast aluminum construction available in black, gray, brass, aluminum and ivory powder coat finishes
- Features ScrubShield® technology that exceeds UL514A scrub water exclusion requirements
- Provides consistent look and maximum functionality throughout the installed life
- Meets ADA standards for accessible design

### Features

- Durable cast aluminum construction, powder coat finish
- Hubbell 4X4: four 20A, 125V receptacles, four keystone openings for voice/data jacks and flush multimedia connectors
- Hubbell X-END and Hubbell iSTATION modular connectivity
- Accommodates Extron® Electronics Architectural Series audio/video system integration products
- Accommodates GFCI, surge and standard Style Line® Decorator receptacles
- Twist-Lock® receptacle with two flush keystone openings
- Large capacity and multi-service furniture feed applications
- Open system sub-plates permit maximum data flexibility

## SystemOne Flush Systems 4 Inch Core Hole, One-Piece Units

### Hubbell SystemOne 4 Inch Core Hole, One-Piece Units

All Hubbell SystemOne 4 Inch core, one-piece units include the sub-plate and cover to simplify your order and reduce installation time. Units are also available with a power junction box installed. The junction box is also available for purchase separately.



**S1PT4X4BLJ**

**Description**

**One-Piece 4X4 Poke-Through**

Assembled-unit includes:

- Hubbell SystemOne 4X4 floor fitting (S1PT4X4FIT)
- 4x4 sub-plate (S1SP4X4)
- Finish flange and universal carpet cover assembly (S1CFCxx)
- 4-hour fire classification

Keystone openings accept Hubbell modular jacks, X-END connectors and flush multimedia snap fit connectors. Receptacles feature single or two circuit wiring and isolated ground capability.

**Color**

- Aluminum Finish
- Brass Finish
- Black/Brass Finish
- Black
- Gray

**Catalog Number without Junction Box**

- S1PT4X4AL**
- S1PT4X4BRS**
- S1PT4X4BRS3**
- S1PT4X4BL**
- S1PT4X4GY**

**Catalog Number with Junction Box\***

- S1PT4X4ALJ**
- S1PT4X4BRSJ**
- S1PT4X4BRS3J**
- S1PT4X4BLJ**
- S1PT4X4GYJ**



**S1PTAL**

**One-Piece Dual Style Line® Decorator Poke-Through**

Assembled-unit includes:

- Hubbell SystemOne dual channel floor fitting (S1PTFIT)
- Dual Style Line® decorator opening sub-plate (S1SP)
- Finish flange and universal carpet cover assembly (S1CFCxx)
- 4-hour fire classification

Style Line® decorator openings accept two Style Line® decorators or one surge or GFCI receptacle and one Style Line® decorator receptacle. Outlet frames can be used to convert the application to a 6-port multi-service or a 12-port all communication solution. Fitting is 4-hr rated at 100% fill to accommodate (12) Cat. 6A cables (0.330" diameter).

- Aluminum Finish
- Brass Finish
- Black
- Gray

- S1PTAL**
- S1PTBRS**
- S1PTBL**
- S1PTGY**

- S1PTALJ**
- S1PTBRSJ**
- S1PTBLJ**
- S1PTGYJ**



**S1PT3IMAL**

**One-Piece Modular AV Poke-Through**

Assembled-unit includes:

- Hubbell SystemOne AV floor fitting (S1PTAVFIT)
- 20A, 125V power and 3-unit Hubbell iSTATION sub-plate (S1SP3IM)
- Finish flange and universal carpet cover assembly (S1CFCxx)
- 4-hour fire classification

The Hubbell iSTATION's recessed opening can accommodate data/voice/audio and video solutions including 15-pin VGA, RCA, S-Video, 3.5mm stereo, X-END, HDMI and XLR microphone jacks.

- Aluminum Finish
- Brass Finish
- Black
- Gray

- S1PT3IMAL**
- S1PT3IMBRS**
- S1PT3IMBL**
- S1PT3IMGY**

- S1PT3IMALJ**
- S1PT3IMBRSJ**
- S1PT3IMBLJ**
- S1PT3IMGYJ**



**S1PTFFGY**

**One-Piece Furniture Feed Poke-Through**

Assembled-unit includes:

- Hubbell SystemOne AV floor fitting (S1PTAVFIT)
- Hubbell SystemOne furniture feed cover plate (S1SPFFxx)
- 4-hour fire classification

This solution provides one 3/4 in. conduit for power and one 1 1/2 in. conduit for low-voltage. Furnished with two screw-in flexible metal conduit connectors.

- Aluminum Finish
- Brass Finish
- Black
- Gray

- S1PTFFAL**
- S1PTFFBRS**
- S1PTFFBL**
- S1PTFFGY**

- S1PTFFALJ**
- S1PTFFBRSJ**
- S1PTFFBLJ**
- S1PTFFGYJ**



Note: \*Junction box factory installed on through floor fitting. See pages P-30 and P-31 for technical information.

## SystemOne Flush Systems 4 Inch Core Hole, Three-Piece Units

### Hubbell SystemOne 4 Inch Core, Three-Piece Units

Description	Catalog Number without Junction Box	Catalog Number with Junction Box*
<b>4X4 Through Floor Fitting</b> Through floor fitting with two ¾ in. EMT for communications and one ¾ in. EMT for power. For use with Hubbell SystemOne universal covers and S1SP4X4 and S1SPTL series sub-plates only. Universal cover and sub-plate ordered separately. 4-hour fire classification.	<b>S1PT4X4FIT</b>	<b>S1PT4X4FITJ</b>
<b>Dual Channel Through Floor Fitting</b> Through floor fitting with two 1 in. EMT conduit stems to feed power and/or communication services. For use with Hubbell SystemOne universal covers and all Hubbell sub-plates except S1SP4X4 and S1SPTL series. Universal cover and sub-plate ordered separately. 4-hour fire classification.	<b>S1PTFIT</b>	<b>S1PTFITJ</b>
<b>AV Through Floor Fitting</b> Through floor fitting with one ¾ in. EMT conduit stem for power and one 1½ in. EMT conduit stem for communication services. Ideal for demanding, high capacity audio/video and data requirements. For use with Hubbell SystemOne universal covers and all Hubbell sub-plates except S1SP4X4 and S1SPTL series. Universal cover and sub-plate ordered separately. 4-hour fire classification.	<b>S1PTAVFIT</b>	<b>S1PTAVFITJ</b>



**S1PT4X4FITJ**



**S1PTFIT**



**S1PTAVFIT**

Note: \*Junction box factory installed on through floor fitting. See pages P-30 and P-31 for technical information.

### Hubbell SystemOne Universal Cover

- Cast aluminum construction
- Durable powder coat finish



Color	Carpet	Tile
Aluminum Finish	<b>S1CFCAL</b>	<b>S1TFCAL</b>
Brass Finish	<b>S1FCBRS</b>	<b>S1TFCBRS</b>
Black	<b>S1FCBBL</b>	<b>S1TFCBL</b>
Gray	<b>S1FCGGY</b>	<b>S1TFCGY</b>
Ivory	<b>S1FCFI</b>	<b>S1TFCFI</b>



Aluminum Finish

Brass Finish

Black

Gray

































Ivory

### Poke Through Accessories

Description	Color	Catalog Number
<b>Abandonment Plates</b> Used to cover abandoned SystemOne Fire-Rated Poke-Throughs or Floor Boxes.	Black Gray	<b>S1AP4BL</b> <b>S1AP4GY</b>
<b>Fire-Rated Closure Plug</b> Used to seal a 4 Inch core hole when the FRPT is no longer required and the through-floor fitting is removed. Maintains the floor's 1-4 hour fire rating.	Black Gray	<b>S1FRP4BL</b> <b>S1FRP4GY</b>
<b>Power Junction Box</b> For use with SystemOne Fire-Rated Poke-Throughs. Provides 27.0 cubic inches. (1) ¾ and (1) 1" EMT connector supplied. Trade size knockouts: Top (1) 1 inch Bottom (1) ¾ inch Sides (2) ½ inch (1) ¾ inch		<b>S1FRPTJB</b>
<b>4 Inch Dia., Pre-Pour Tube</b> Includes hardware.		<b>S1R4PPT</b>





## SystemOne Flush Sub-Plates



































Description	Catalog Number	Description	Catalog Number	Description	Catalog Number
<b>Style Line® Decorator/GFCI</b> (2) Style Line® decorator openings for power and/or datacom applications.	 <b>S1SP</b>	<b>Duplex/Duplex</b> (2) Duplex openings for power and/or datacom applications.	 <b>S1SPDU</b>	<b>Duplex/Style Line® Decorator</b> (1) Duplex and (1) Style Line® decorator opening for power and/or datacom applications.	 <b>S1SPDUSL</b>
<b>Hubbell 4 X 4</b> (4) 20A, 125V receptacles. (4) Keystone openings for Hubbell jacks or flush AV connectors. Power can be wired as single or two circuit with isolated ground capability.  Includes  stickers.	 <b>S1SP4X4</b> <b>S1SP4X4C</b>	<b>Carpet Furniture Feed Cover/Flange*</b> (1) ¾" and (1) 1½" NPT access holes for power and/or datacom applications. Universal Cover not required. Includes carpet flange.		<b>Tile Furniture Feed Cover/Flange*</b> (1) ¾" and (1) 1½" NPT access holes for power and/or datacom applications. Universal Cover not required. Includes tile flange.	
Provided with 15 ft. wire leads Provided with 30 ft. wire leads	<b>S1SP4X415</b> <b>S1SP4X430</b>	Aluminum Fin. Brass Finish Black Gray	<b>S1SPFFAL</b> <b>S1SPFFBRS</b> <b>S1SPFFBL</b> <b>S1SPFFGY</b>	Aluminum Fin. Brass Finish Black Gray	<b>S1SPFFTAL</b> <b>S1SPFFTBR</b> <b>S1SPFFTBL</b> <b>S1SPFFTGY</b>
<b>Single Receptacle + Data</b> Opening for 20 or 30A Twist-Lock® receptacle (1.56" OD) and (2) Keystone openings for Hubbell jacks or flush AV connectors.	 <b>S1SPTL</b>	<b>Hubbell DataCom + Power</b> (1) 20A, 125V receptacle and 3-unit recessed Hubbell iSTATION opening for data, voice, and AV applications.  Marked with  "Controlled"	 <b>S1SP3IM</b> <b>S1SP3IMC</b>	<b>Hubbell DataCom + Duplex</b> (1) Duplex opening, (2) flush Keystone openings and 1.5 unit recessed Hubbell iSTATION opening for data, voice and AV applications.	 <b>S1SPDU2IM</b>
<b>Hubbell DataCom + Style Line® Decorator</b> (1) Style Line® decorator opening, (2) flush Keystone openings and 1.5 unit recessed Hubbell iSTATION opening for data, voice and AV applications.	 <b>S1SPSL2IM</b>	<b>Hubbell DataCom</b> 1 unit flush Hubbell iSTATION opening and 3-unit recessed Hubbell iSTATION opening for data, voice, and AV applications.	 <b>S1SP4IM</b>	<b>Active Multimedia + Power</b> Single 20A, 125V receptacle; (2) flush Keystone openings; (1) rectangular Style Line® decorator opening to accommodate active multimedia modules or low voltage outlet frames.  Marked with  "Controlled"	 <b>S1SPAMM20</b> <b>S1SPAMM20C</b>
<b>Extron® or FSR + Power</b> (1) 20A, 125V receptacle. Recessed opening for (3) single Extron® MAAP series adapter plates or FSR IPS plates.  Marked with  "Controlled"	 <b>S1SPEXT1</b> <b>S1SPEXT1C</b>	<b>Extron® or FSR + Power</b> (1) 20A, 125V receptacle. Recessed opening for (1) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS plates.  Marked with  "Controlled"	 <b>S1SPEXT2</b> <b>S1SPEXT2C</b>	<b>Extron® or FSR Single-Service</b> Recessed opening for (2) single Extron® MAAP and (2) single AAP series adapter plates or FSR IPS plates.	 <b>S1SPEXT3</b>
<b>Extron® AAP + Power</b> (1) 20A, 125V receptacle. (2) flush Keystone & recessed opening for (2) single Extron® AAP Series adapter plates.  Marked with  "Controlled"	 <b>S1SPEXT4</b> <b>S1SPEXT4C</b>	<b>Ortronics Series II® + Power</b> (1) 20A, 125V receptacle. Recessed opening for (3) 1 unit Ortronics Series II® modules.  Marked with  "Controlled"	 <b>S1SPORT</b> <b>S1SPORTC</b>	<b>Ortronics TracJack® + Power</b> (1) 20A, 125V receptacle. Recessed bezel for (6) Ortronics TracJack® modules.  Marked with  "Controlled"	 <b>S1SPTRAC</b> <b>S1SPTRACC</b>
<b>Panduit Mini Com® 4 X 4</b> (4) 20A, 125V receptacles. (4) Openings for Panduit Mini-Com Connectivity.  Includes  stickers.	 <b>S1SP4X4PA</b> <b>S1SP4X4PAC</b>	<b>SYSTIMAX® 4 X 4</b> (4) 20A, 125V receptacles. (4) Openings for SYSTIMAX® Connectivity.  Includes  stickers.	 <b>S1SP4X4SYS</b> <b>S1SP4X4SYS</b>	<b>Siemon MAX® + Power</b> (1) 20A, 125V receptacle. Recessed bezel for (6) Siemon MAX® modules.  Marked with  "Controlled"	 <b>S1SPMAX</b> <b>S1SPMAXC</b>

Note: \*Furnished with two screw-in flexible metal conduit connectors. See Network Wiring section for complete offering of Hubbell jacks, frames and datacom accessories. See page P-21 for FRPT Configuration Chart.

## Sub-Plate Accessories



Description		Description	Catalog Number	
<b>Replacement Threaded Conduit Plugs</b> Used with S1SPFFx and S1SPFTx only. Sub-plate is supplied with plugs.		<b>Replacement for S1SPMAX.</b> Sub-plate is supplied with data frame. Works with Siemon MAX®.	<b>S1DFMAX</b>	
Color	1½" Plug	¾" Plug		
Aluminum Finish	<b>S1FP15AL</b>	<b>S1FP34AL</b>	Replacement for S1SPTRAC sub-plate. Sub-plate is supplied with data frame. Works with Ortronics TracJack®.	<b>S1DFTRAC</b>
Brass Finish	<b>S1FP15BRS</b>	<b>S1FP34BRS</b>	Blank Style Line® decorator frame, Black.	<b>NS620BK</b>
Black	<b>S1FP15BL</b>	<b>S1FP34BL</b>	2-Port Style Line® decorator frame, Black.	<b>ISF2BK</b>
Gray	<b>S1FP15GY</b>	<b>S1FP34GY</b>	4-Port Style Line® decorator frame, Black.	<b>ISF4BK</b>
			6-Port Style Line® decorator frame, Black.	<b>ISF6BK</b>

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SystemOne Flush Configuration Chart			Non-Metallic				Floor Boxes*				4" Core Hole Fire-Rated Poke-Throughs		
			Metal										
Approved for use in the City of Chicago. (except S1PFB)													
Sub-Plates			S1PFB	S1CFB	S1SFB	S1SFBCR	S1SFBAV	S1SFBAVCR	S1PTFIT	S1PT4X4FIT	S1PTAVFIT		
S1SP	Style Line® Decorator/GFCI		3	3.5	3.5	3.5	3.5	3.5	✓+	✗	✓		
S1SPDU	Duplex/Duplex		3	3.5	3.5	3.5	3.5	3.5	✓+	✗	✓		
S1SPDUSL	Duplex/Style Line® Decorator		3	3.5	3.5	3.5	3.5	3.5	✓+	✗	✓		
S1SP4X4 S1SP4X4PA S1SP4X4SYS	Hubbell 4 X 4 Panduit Mini-Com® 4 X 4 SYSTIMAX® 4 X 4		4	4	4	4	4	4	✗	✓+	✗		
S1SP4X4C S1SP4X4PAC S1SP4X4SYSC	Marked with "Controlled"		4	4	4	4	4	4	✗	✓+	✗		
S1SPTL	Twist-Lock® Receptacle + Data		4	4	4	4	4	4	✗	✓+	✗		
S1SP3IM	Hubbell DataCom + Power		5	5	5	5	5	5	✓	✗	✓+		
S1SP4IM	Hubbell DataCom		3.5	3.5	3.5	3.5	3.5	3.5	✓	✗	✓+		
S1SPDU2IM	Hubbell DataCom + Duplex		5	5	5	5	5	5	✓	✗	✓+		
S1SPSL2IM	Hubbell DataCom + Style Line® Decorator		5	5	5	5	5	5	✓	✗	✓+		
S1SPFFxx (Carpet)	Furniture Feed Cover/Flange (Replace "xx" with BRS (Brass finish), AL (Aluminum finish), BL (Black) or GY (Gray).		3	3.5	3.5	3.5	3.5	3.5	✓	✗	✓+		
S1SPFFTxx (Tile)			3	3.5	3.5	3.5	3.5	3.5	✓	✗	✓+		
S1SPEXT1	Extron® or FSR + Power		4	4	4	4	4	4	✓	✗	✓+		
S1SPEXT1C	Marked with "Controlled"		4	4	4	4	4	4	✓	✗	✓+		
S1SPEXT2	Extron® or FSR + Power		4	4	4	4	4	4	✓	✗	✓+		
S1SPEXT2C	Marked with "Controlled"		4	4	4	4	4	4	✓	✗	✓+		
S1SPEXT3	Extron® or FSR Single-Service		4.5	4.5	4.5	4.5	4.5	4.5	✓	✗	✓+		
S1SPEXT4	Extron® or FSR + Power		4	4	4	4	4	4	✓	✗	✓+		
S1SPEXT4C	Marked with "Controlled"		4	4	4	4	4	4	✓	✗	✓+		
S1SPORT	Ortronics Series II® + Power		5	5	5	5	5	5	✓	✗	✓+		
S1SPORTC	Marked with "Controlled"		5	5	5	5	5	5	✓	✗	✓+		
S1SPTRAC	Ortronics TracJack® + Power		5	5	5	5	5	5	✓	✗	✓+		
S1SPTRACC	Marked with "Controlled"		5	5	5	5	5	5	✓	✗	✓+		
S1SPMAX	Siemon MAX® + Power		5	5	5	5	5	5	✓	✗	✓+		
S1SPMAXC	Marked with "Controlled"		5	5	5	5	5	5	✓	✗	✓+		
S1SPAMM20	Active Multimedia + Flush Keystone + Power		5	5	5	5	5	5	✓	✗	✓+		
S1SPAMM20C	Marked with "Controlled"		5	5	5	5	5	5	✓	✗	✓+		
S1CFCxx (Carpet)	SystemOne Floor Boxes and FRPTs use SystemOne Universal Covers (Replace "xx" with BRS (Brass finish), AL (Aluminum finish), BL (Black) or GY (Gray).		 Signifies minimum depth of concrete pour in inches for Hubbell SystemOne Floor Boxes.						 Recommended Floor Fitting	 Alternative Floor Fitting	 Not Compatible		
S1TFCxx (Tile)			<i>Extron® is a registered trademark of Extron Electronics. MAX® is a registered trademark of The Siemon Company. Mini-Com® and Panduit® are registered trademarks of Panduit Corp. SYSTIMAX® is a registered trademark of CommScope, Inc. TracJack®, Series II® &amp; Ortronics® are registered trademarks of Ortronics/Legrand.</i>										


## 2X2 Flush FRPT 3 Inch Core Hole Units

### 2X2 Flush FRPT, One-Piece Units (PT2X2FIT)

Description	Color	Catalog Number	Description	Color/Material	Catalog Number
2X2 Poke-Through Non-metallic Cover	Black Gray Black Gray	<b>PT2X2BL</b> <b>PT2X2GY</b> <b>PT2X2IGBL*</b> <b>PT2X2IGGY*</b>	2X2 Poke-Through	Black/Brass Brass Finish/Brass Black/Brass Brass Finish/Brass	<b>PT2X2BRS3</b> <b>PT2X2BRS</b> <b>PT2X2IGBRS3*</b> <b>PT2X2IGBRS*</b>
<ul style="list-style-type: none"> <li>Pre-wired 20A Style Line® decorator receptacle and (2) Category 5e data jacks</li> <li>Painted aluminum flange</li> <li>Approved for use in the City of Chicago</li> </ul>			<ul style="list-style-type: none"> <li>Pre-wired 20A Style Line® decorator receptacle and (2) Category 5e data jacks</li> <li>Solid brass flange</li> <li>Approved for use in the City of Chicago</li> </ul>		

Note: \*Includes pre-wired 20A isolated ground duplex Style Line® receptacle.



### 2X2 Flush FRPT, Two-Piece Units

Description	Catalog Number
Multi-Channel Through-Floor Fitting with (1) 3/4 in. EMT stem with junction box for power and (2) 1/2 in. EMT stems for low voltage.	<b>PT2X2FIT</b>
	
	<p>Specifications:</p> <ul style="list-style-type: none"> <li>1 – 4 hour fire rating (1 – 3 hour for steel floor units and concrete topping, D900 Series Design)</li> <li>For 2 1/4 in. to 7 in. floor thickness</li> <li>UL installation spacing – minimum 2 ft. on center and not more than one per 65 sq. ft. of floor area</li> <li>Approved for use in the City of Chicago</li> </ul>

### Service Fittings

Description	Color	Catalog Number	Description	Color/Material	Catalog Number
2X2 Service Fitting Non-metallic Cover/ Aluminum Flange	Black Gray	<b>PT2X2SFBL</b> <b>PT2X2SFGY</b>	2X2 Service Fitting Non-metallic Cover/ Brass Flange	Black/Brass Brass Finish/Brass	<b>PT2X2SFBR3</b> <b>PT2X2SFBR5</b>
<ul style="list-style-type: none"> <li>Pre-wired 20A Style Line® decorator receptacle and (2) Category 5e data jacks</li> <li>Painted aluminum flange</li> </ul>			<ul style="list-style-type: none"> <li>Pre-wired 20A Style Line® decorator receptacle and (2) Category 5e data jacks</li> <li>Solid brass flange</li> </ul>		

### Accessories

Description	Color/Material	Catalog Number	Description	Color/Material	Catalog Number
Non-metallic Replacement Covers	Brass Finish Black Gray	<b>PT2X2CBRS</b> <b>PT2X2CBL</b> <b>PT2X2CGY</b>	<b>Closure Plug</b> Textured aluminum plug seals 3 in. core hole when FRPT is no longer required and is removed. Maintains the floor's 1 – 4 hour fire rating. UL Listed and CSA Certified.	Gray	<b>FRP250</b>
					

Note: See page P-33 for technical information.

## Flush Duplex FRPT 3 Inch Core Hole Units

### Flush Duplex FRPT, One-Piece Units

Description	Color	Catalog Number	Description	Color/Material	Catalog Number
Flush Poke-Through	Black Brown Gray Ivory Gray Ivory	<b>PT7FSDBLA</b> <b>PT7FSDBRA</b> <b>PT7FSDGYA</b> <b>PT7FSDIA</b> <b>PT7IGFSDGYA*</b> <b>PT7IGFSDIA*</b>	Flush Brass Poke-Through	All Brass Black/Brass All Brass	<b>PT7FSDBR2A</b> <b>PT7FSDBR3A</b> <b>PT7IGFSDBRSA*</b>

Complete assembled unit includes:

- Pre-wired 20A duplex receptacle
- Non-metallic flip lid cover with (2) ½ in. diameter low voltage feed-through holes
- Painted aluminum flange



Complete assembled unit includes:


- Pre-wired 20A duplex receptacle
- All brass or black non-metallic cover option
- Flip lid cover with (2) ½ in. diameter low voltage feed-through holes
- Solid brass flange



Note: \*Includes pre-wired 20A isolated ground duplex receptacle.

### Flush FRPT, Two-Piece Units

Description	Catalog Number
Multi-Channel Through-Floor Fitting with (1) ¾ in. EMT stem for power and (2) ½ in. low voltage feed-through holes.	<b>PT7FSD</b> (with Junction Box) <b>PT73SD</b> (without Junction Box)



Specifications:


- 1 – 4 hour fire rating (1 – 3 hour for steel floor units and concrete topping, D900 Series Design)
- For 2¼ in. to 7 in. floor thickness
- UL installation spacing – minimum 2 ft. on center and not more than one per 65 sq. ft. of floor area

### Service Fittings

Description	Color	Catalog Number	Description	Color/Material	Catalog Number
Flush Aluminum Service Fitting	Black Brown Gray Ivory	<b>FRFBLA</b> <b>FRFBRA</b> <b>FRFGYA</b> <b>FRFIA</b>	Flush Brass Service Fitting	Solid Brass	<b>FRFBRS2A</b>


Complete assembled unit includes:

- Pre-wired 20A duplex receptacle
- Non-metallic flip lid cover with (2) ½ in. diameter low voltage feed-through holes
- Painted aluminum flange



Complete assembled unit includes:

- Pre-wired 20A duplex receptacle
- Solid brass flip lid cover with (2) ½ in. diameter low voltage feed-through holes
- Solid brass flange



### Accessories

Description	Color	Catalog Number	Description	Color/Material	Catalog Number
Non-metallic Replacement Covers	Black Brown Gray Ivory	<b>PFBRCBLA</b> <b>PFBRCBRA</b> <b>PFBRCGYA</b> <b>PFBRCIA</b>	All Brass Replacement Covers	Solid Brass	<b>BRS2RCA</b>







Note: See page P-26 for 3 Inch FRPT accessories.  
See page P-33 for technical information.

## Flush Furniture Feed FRPT 3 Inch Core Hole Units

### Large Capacity, Single-Service Flush Furniture Feed FRPT, Two-Piece Units

Description	Catalog Number	Description	Color/Material	Catalog Number
Large Capacity, Single-Service Through Floor Fitting with (1) 2 in. EMT stem. Will accommodate up to 36 Category 5e cables.	<b>PT2FIT</b>	Large Capacity Cover/Flange	Brass Finish Black Gray	<b>FF2BRS</b> <b>FF2BK</b> <b>FF2GY</b>
<p>Specifications:</p> <ul style="list-style-type: none"> <li>• 1- to 2-hour fire rating</li> <li>• Single-Service, Power or Data</li> <li>• For 2¼ to 7 in. floor thickness</li> <li>• UL installation spacing – minimum 2 ft. on center and not more than 1 per 65 sq. ft. of floor area</li> <li>• Approved for use in the City of Chicago</li> </ul>		<p>Specifications:</p> <ul style="list-style-type: none"> <li>• Cover/flange with 1¼ in. and 2 in. trade size combination knockout</li> <li>• Painted aluminum cover and flange</li> <li>• Approved for use in the City of Chicago</li> </ul>		



Note: \*Includes pre-wired 20A isolated ground duplex Style Line® receptacle. See page P-34 for technical information.

### Flush Furniture Feed FRPT, One-Piece Units



Description	Color	Catalog Number	Description	Color	Catalog Number
3-Service Furniture Feed Poke-Through	Black Gray Ivory	<b>PT73FFSDBK</b> <b>PT73FFSDGY</b> <b>PT73FFSDI</b>	Single-Service Furniture Feed Poke-Through	Black Gray Ivory	<b>PT7FFSDBK</b> <b>PT7FFSDGY</b> <b>PT7FFSDI</b>
<p>Complete assembled unit includes:</p> <ul style="list-style-type: none"> <li>• PT73SD floor fitting</li> <li>• Aluminum cover with (2) ½ in. threaded hubs for low voltage and (1) ¾ in. threaded hub for power</li> <li>• Painted aluminum flange</li> </ul>			<p>Complete assembled unit includes:</p> <ul style="list-style-type: none"> <li>• PT71SD floor fitting</li> <li>• Aluminum cover with (1) KO to accept a ¾ in. connector</li> <li>• Painted aluminum flange</li> </ul>		

Note: See page P-34 for technical information.

### Flush Furniture Feed FRPT, Two-Piece Units

Description	Catalog Number	Description	Catalog Number
3-Service Furniture Feed Through-Floor Fitting with (1) ¾ in. EMT stem for power and (2) ½ in. low voltage conduit holes.	<b>PT73SD</b>	Single-Service Furniture Feed Through-Floor Fitting with (1) ¾ in. EMT stem for power or low voltage applications.	<b>PT71SD</b>
<p>Specifications:</p> <ul style="list-style-type: none"> <li>• 1 – 4 hour fire rating (1 – 3 hour for steel floor units and concrete topping, D900 Series Design)</li> </ul>		<p>Specifications:</p> <ul style="list-style-type: none"> <li>• For 2¼ to 7 in. floor thickness</li> <li>• UL installation spacing – minimum 2 ft. on center and not more than 1 per 65 sq. ft. of floor area</li> </ul>	

### Service Fittings

Description	Color	Catalog Number	Description	Color	Catalog Number
3-Service Furniture Feed Service Fitting	Black Gray Ivory	<b>FRF3BK</b> <b>FRF3GY</b> <b>FRF3I</b>	Single-Service Furniture Feed Service Fitting	Brass Finish Black Gray	<b>FRF1BRS</b> <b>FRF1BK</b> <b>FRF1GY</b>
<p>Complete assembled unit includes:</p> <ul style="list-style-type: none"> <li>• Aluminum cover with (2) ½ in. threaded hubs for low voltage and (1) ¾ in. threaded hub for power</li> <li>• Painted aluminum flange</li> </ul>			<p>Complete assembled unit includes:</p> <ul style="list-style-type: none"> <li>• Aluminum cover with (1) KO to accept a ¾ in. connector</li> <li>• Painted aluminum flange</li> </ul>		

Note: See page P-26 for 3 Inch FRPT accessories. See page P-34 for technical information.



## Painted Pedestal FRPT 2 and 3 Inch Core Hole Units

### 3 Inch Core Hole, Two-Piece Unit

Description	Catalog Number
Large Capacity Multi-Service Pedestal Through-Floor Fitting with (1) 1¼ in. EMT stem for low voltage and (1) ½ in. EMT stem for power applications.	<b>PT7XC</b>
Specifications:	
<ul style="list-style-type: none"> <li>• 1 – 4 hour fire rating (1 – 3 hour for steel floor units and concrete topping, D900 Series Design)</li> <li>• For 2¼ in. to 7 in. floor thickness</li> <li>• Approved for use in the City of Chicago</li> </ul>	



### 2 Inch Core Hole, Two-Piece Unit

Description	Catalog Number
Multi-Service Pedestal Through-Floor Fitting with (1) ¾ in. EMT stem for low voltage and (1) ½ in. EMT stem for power applications.	<b>PT27A</b>
Specifications:	
<ul style="list-style-type: none"> <li>• 1 – 4 hour fire rating (1 – 3 hour for steel floor units and concrete topping, D900 Series Design)</li> <li>• For 2¼ in. to 7 in. floor thickness</li> <li>• Approved for use in the City of Chicago</li> </ul>	



Note: \*Includes pre-wired 20A isolated ground duplex receptacle.  
See page P-35 for technical information.

## Pedestal Service Fittings (Order 1 plate per gang)

Description	Color/Material	Catalog Number	Description	Color	Catalog Number	Description	Color	Catalog Number
2-Gang	Alum. Finish Black Gray	<b>FR280ALA</b> <b>FR280BKA</b> <b>FR280GYA</b>	4-Gang	Black Gray	<b>FR480BKA</b> <b>FR480GYA</b>	6-Gang	Black Gray	<b>FR680BKA</b> <b>FR680GYA</b>
Use with PT27A only.			Use with PT27A or PT7XC.			Use with PT27A or PT7XC.		
								
<b>FR280BKA</b>			<b>FR480GYA</b>			<b>FR680BKA</b>		

- Painted aluminum housing with low voltage barrier(s); plates and devices sold separately
- For additional barriers, use FRBR1, see page P-21.
- UL Listed and CSA Certified

Note: See page P-35 for technical information.

## Pedestal Face Plates (Order 1 plate per gang)

Description	Color/Material	Catalog Number	Description	Color/Material	Catalog Number
Duplex	Black Gray	<b>SS2309DBKA</b> <b>SS2309DGYA</b>	Furniture feed (¾ in. KO)	Alum. Finish Black Gray	<b>SS2309FALA</b> <b>SS2309FBKA</b> <b>SS2309FGYA</b>
Style Line®/GFCI	Black Gray	<b>SS2309SLBKA</b> <b>SS2309SLGYA</b>	Furniture feed (1 in. KO)	Black Gray	<b>SS2309F1BKA</b> <b>SS2309F1GYA</b>
Single receptacle (1.39 in. OD)	Black Gray	<b>SS2309SBKA</b> <b>SS2309SGYA</b>	Bushed data opening (1 in. ID)	Black Gray	<b>SS2309TBKA</b> <b>SS2309TGYA</b>
Blank	Alum. Finish Black Gray	<b>SS2309BALA</b> <b>SS2309BBKA</b> <b>SS2309BGYA</b>			

- Painted aluminum plates
- UL Listed and CSA Certified

# Fire-Rated Poke-Throughs

## Brushed Aluminum Pedestal FRPT 3 Inch Core Hole Two-Piece Units

### Through-Floor Fitting

Description	Catalog Number
Large Capacity Multi-Service Pedestal Through-Floor Fitting with (1) 1 ¼ in. EMT stem for low voltage and (1) ½ in. EMT stem for power applications.	<b>PT7XC</b>
Specifications:	
<ul style="list-style-type: none"> <li>• 1 – 4 hour fire rating (1 – 3 hour for steel floor units and concrete topping, D900 Series Design).</li> <li>• For 2¼ in. to 7 in. floor thickness.</li> <li>• Approved for use in the City of Chicago.</li> </ul>	



### Pedestal Service Fitting

Description	Color/Material	Catalog Number
2-Gang Pedestal Service Fitting For use with PT7XC only.	Brushed Aluminum	<b>FR80AL</b>
Specifications:		
<ul style="list-style-type: none"> <li>• Brushed aluminum housing with low voltage barrier. Plates and devices sold separately.</li> </ul>		



Note: See pages P-35 and P-36 for technical information.

### Plates

Description	Catalog Number	Description	Catalog Number
Duplex	<b>SS309D</b>	Furniture feed (¾ in. KO)	<b>SS309SF*</b>
Style Line®/GFCI	<b>SS309DS</b>	Furniture feed, blank	<b>SS309BF*</b>
Single receptacle (1.39 in. OD)	<b>SS309S</b>	Bushed data opening (1 in. ID)	<b>SS309T</b>
Blank	<b>SS309B</b>	<ul style="list-style-type: none"> <li>• 302/304 stainless steel plates (SS309SF &amp; SS309BF are aluminum).</li> <li>• UL Listed and CSA Certified.</li> </ul>	

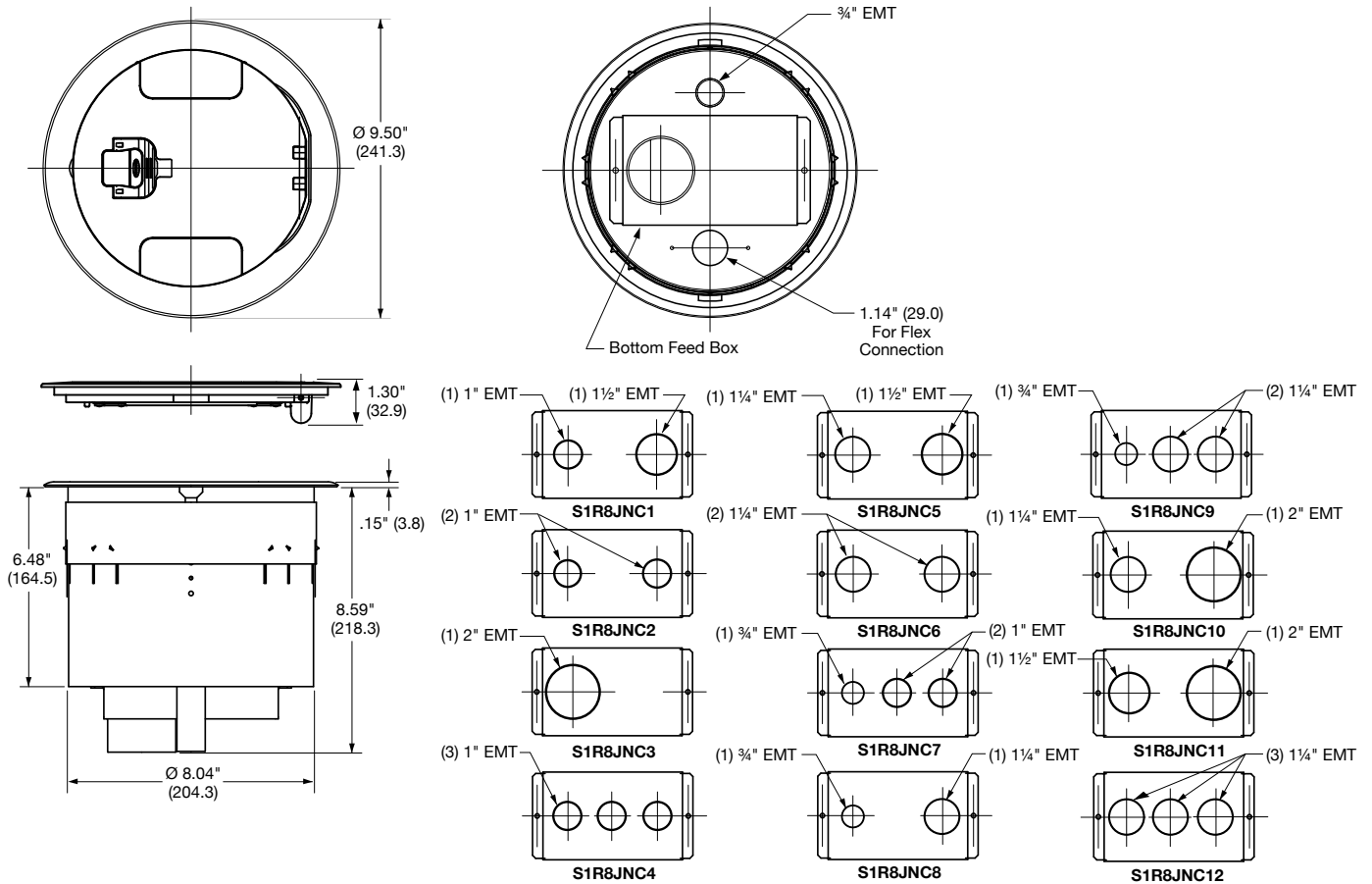
Note: \*For furniture feed applications using **SS309SF**, a **SS309BF** blank must be used for second plate.

### 3 Inch Core Hole FRPT Accessories

Description	Color	Catalog Number	Description	Color/Gang	Catalog Number
<b>Flush FRPT Abandonment Plate</b> Use with PT7FSD, PT73SD or PT71SD only. Covers the opening when FRPT is abandoned. Service fitting is removed and through-floor fitting remains.	Gray Ivory	<b>AP2GY</b> <b>AP2I</b>	<b>PT7XC Extension Kit</b> Extends PT7XC FRPT to accommodate between 7 in. and 13 in. floor thickness.	—	<b>EXT13</b>
<b>Multi-Service Furniture Feed Replacement Inserts</b> Use as a replacement cover for PT73FFSD series, or to convert installed PT7FSD series into furniture feed FRPTs. Includes (2) ½ in. threaded hubs for low voltage and (1) ¾ in. threaded hub for power. (UL Listed only.)	Gray Ivory	<b>FF3GY</b> <b>FF3I</b>	<b>Pedestal FRPT Abandonment Plate</b> Use with PT27A or PT7XC only. Covers the opening when FRPT is abandoned. Service fitting is removed and through-floor fitting remains.	Gray/ 2-gang  Gray/ 4-gang	<b>AP22</b>  <b>AP42</b>
<b>Replacement Low Voltage Barrier</b> Use with FR280, FR480, and FR680 pedestal service fittings only when additional power/low voltage separation is required.		<b>FRBR1</b>			

## Hubbell SystemOne Recessed 8 Inch Series

S1R8PT Series



### Product Information

- Plated cast aluminum covers available in brass, nickel or bronze finishes. Additionally available in brushed aluminum or black powder coat.
- S1R8SPZ sub-plate supplied with pre-wired dual 20A receptacle. Wired with three #12 AWG solid conductors.
- Meets ADA standards for accessible design, "changes in level."
- Meets UL 514A scrub water exclusion requirements.
- COVER LOAD RATING: 1,000 lbs with 2x safety factor. Load applied through a 3" (76mm) mandrel in center of the cover. Static loads only.

### Application Data

- Mounted in 8 in. (203.2) cored concrete diameter through hole.
- Minimum floor thickness: 2 1/4 in. (57.2).
- UL Listed for fire resistance in 1 – 2 hour rated D900 series floors.
- Approved for use in the City of Chicago.

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
#8	.01296 sq. in. (8.361mm <sup>2</sup> )

### UL Listed Wiring Capacity

S1R8PT Series		
Fire Resistance Rating	2-Hrs. (D900)	
Max. Copper Cross Section	Outer Chambers (each) .0154 sq. in.	Center Chamber .0633 sq. in.

### UL Characteristics

Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

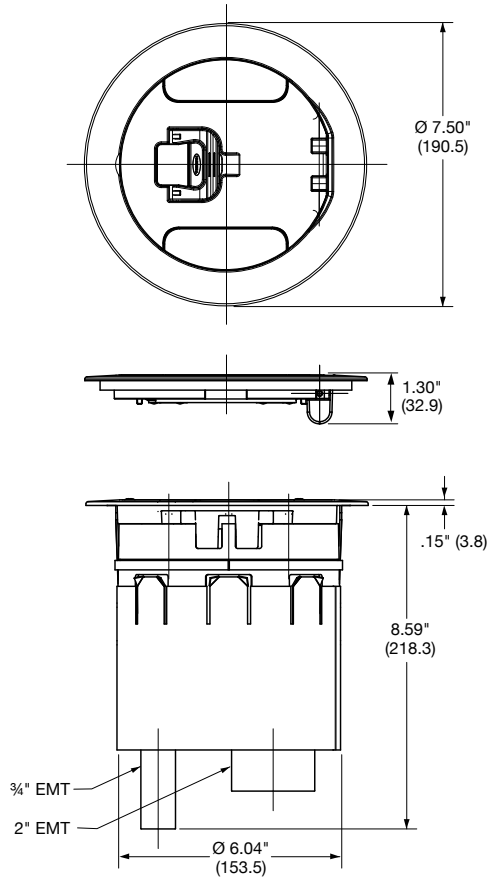
For use in 1, 1 1/2 or 2 hour rated unprotected reinforced floors or in 1 or 2 hour rated floors employing steel floor units and concrete topping (D900 Series designs). UL Spacing Restrictions - Minimum of 2 ft. on center and not more than one unit per each 65 square feet of floor area in each span.

Note: The above product data pertains to both kited units, three-piece units and through-floor fittings. When connection conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

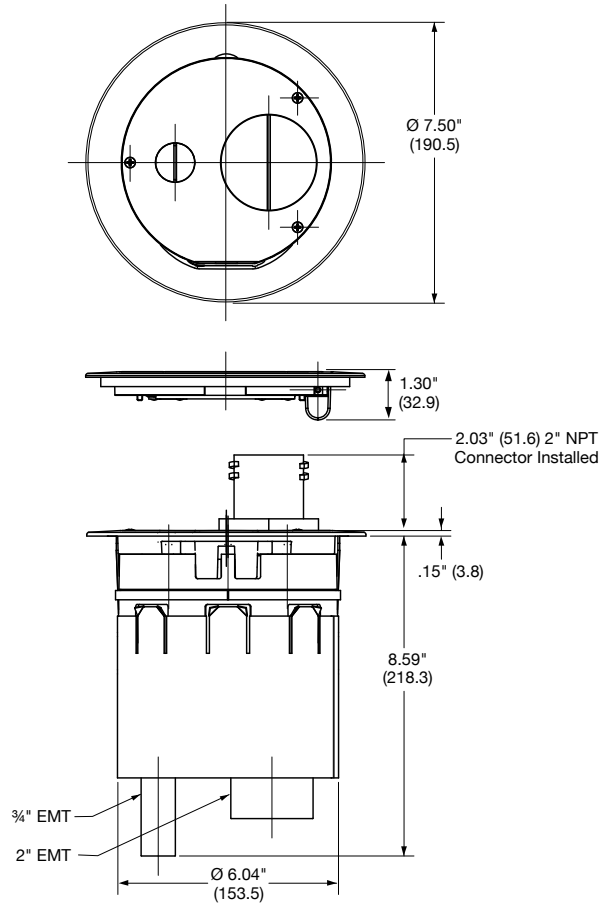
Dimensions in Inches (mm)

## Hubbell SystemOne Recessed 6 Inch Series

S1R6PT Series



S1R6PTFF Series



### Product Information

- Plated cast aluminum covers available in brass, nickel or bronze finishes. Additionally available in brushed aluminum or black powder coat.
- S1R6SPZ sub-plate supplied with pre-wired dual 20A receptacle. Wired with three #12 AWG solid conductors.
- S1R6SPH sub-plate supplied with pre-wired quad 20A receptacle. Wired with six #12 AWG solid conductors. Receptacle can be wired as dual circuit and isolated ground.
- S1R6PTFF series furnished with one (1) 3/4 in. and one (1) 2 in. screw-in flexible metal conduit connectors.
- Meets ADA standards for accessible design, "changes in level."
- Meets UL 514A scrub water exclusion requirements.
- COVER LOAD RATING: 1,000 lbs with 2x safety factor. Load applied through a 3" (76mm) mandrel in center of the cover. Static loads only.

### Application Data

- Mounted in 6 in. (152.4) cored concrete diameter through hole.
- Minimum floor thickness: 2 1/4 in. (57.2).
- UL Listed for fire resistance in 1 – 2 hour rated D900 series floors.
- Approved for use in the City of Chicago.

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
#8	.01296 sq. in. (8.361mm <sup>2</sup> )

### UL Listed Wiring Capacity

	S1R6PT Series		S1R6PTFF Series	
Fire Resistance Rating	2-Hrs. (D900)		2-Hrs. (D900)	
Max. Copper Cross Section	3/4 in. Power EMT .0307 sq. in.	2 in. Low Voltage EMT .0348 sq. in.	3/4 in. Power EMT .0815 sq. in.	2 in. Low Voltage EMT .0962 sq. in.

### UL Characteristics

Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

For use in 1, 1 1/2 or 2 hour rated unprotected reinforced floors or in 1 or 2 hour rated floors employing steel floor units and concrete topping (D900 Series designs).  
UL Spacing Restrictions - Minimum of 2 ft. on center and not more than one unit per each 65 square feet of floor area in each span.

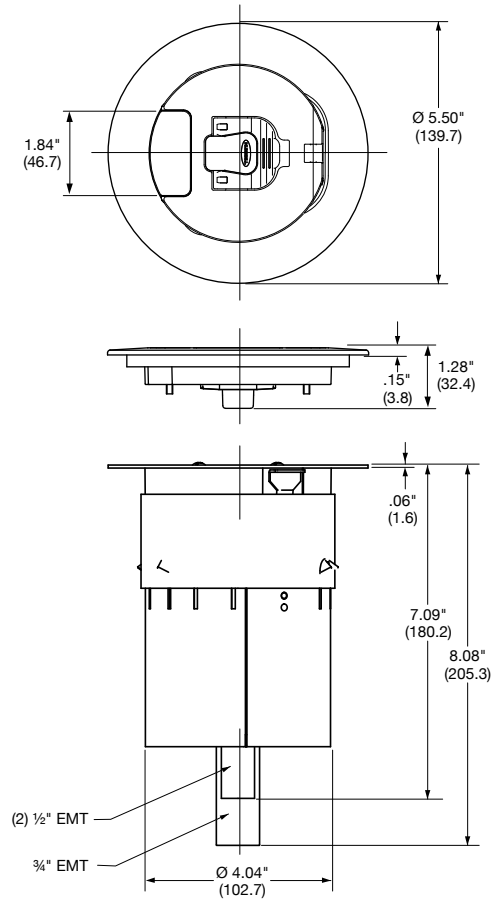
Note: The above product data pertains to both kited units, three-piece units and through-floor fittings.

When connection conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

Dimensions in Inches (mm)

## Hubbell SystemOne Recessed 4 Inch Series

S1R4PT Series



### Product Information

- Plated cast aluminum covers available in brass, nickel or bronze finishes. Additionally available in brushed aluminum, black or gray powder coat.
- S1R4SPQUAD sub-plate supplied with pre-wired quad 20A receptacle. Wired with six #12 AWG solid conductors. Receptacle can be wired as dual circuit and isolated ground.
- Meets ADA standards for accessible design, "changes in level."
- Meets UL 514A scrub water exclusion requirements.
- COVER LOAD RATING: 1,000 lbs with 2x safety factor. Load applied through a 3" (76mm) mandrel in center of the cover. Static loads only.

### Application Data

- Mounted in 4 in. (139.7) cored concrete diameter through hole.
- Minimum floor thickness: 2¼ in. (57.2).
- UL Listed for fire resistance in 1 – 2 hour rated D900 series floors.
- Approved for use in the City of Chicago.

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
# 8	.01296 sq. in. (8.361mm <sup>2</sup> )

### UL Listed Wiring Capacity

S1R4PT Series		
Fire Resistance Rating	2-Hrs. (D900)	
Max. Copper Cross Section	¾ in. Power EMT .0408 sq. in.	½ in. Low Voltage EMT .008 sq. in.

### UL Characteristics

Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

For use in 1, 1½ or 2 hour rated unprotected reinforced floors or in 1 or 2 hour rated floors employing steel floor units and concrete topping (D900 Series designs).  
UL Spacing Restrictions - Minimum of 2 ft. on center and not more than one unit per each 65 square feet of floor area in each span.

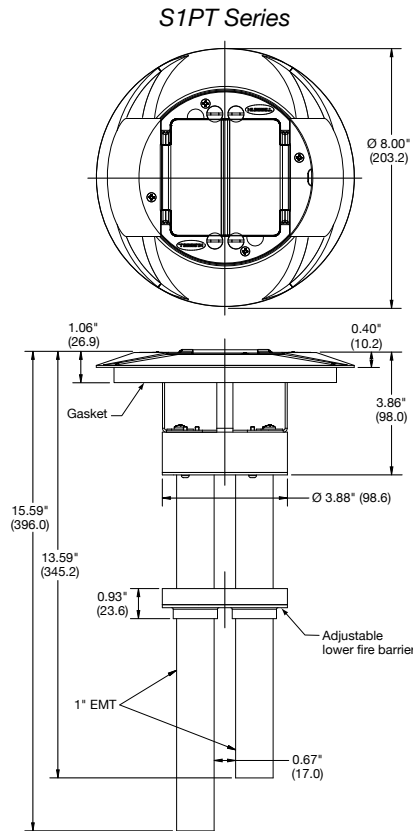
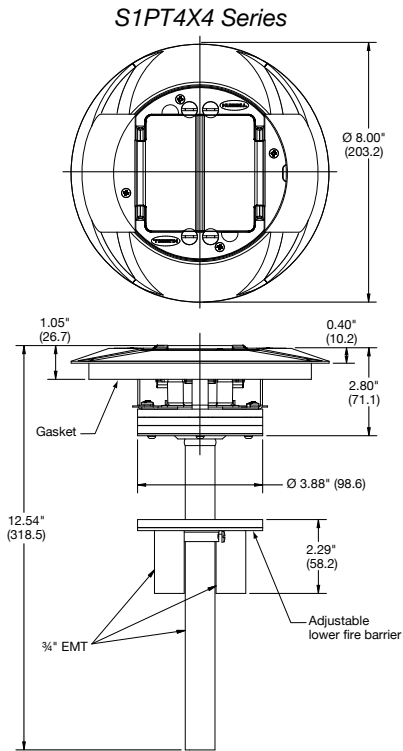
Note: The above product data pertains to both one-piece units, three-piece units and through-floor fittings.

When connection conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

Dimensions in Inches (mm)



## Hubbell SystemOne Flush 4 Inch Series



### Product Information

- Powder coat cast aluminum cover and flange (color finish options: aluminum, brass, black, gray and ivory).
- Hubbell SystemOne universal cover meets ADA standards for accessible design, "changes in level."
- S1SP4X4 sub-plate supplied with pre-wired, molded, four position 20A, 125V, black receptacle, NEMA 5-20R.
- S1SP4X4 wired with six thermally protected #14 AWG THHN stranded copper conductors, receptacle can be wired as dual-circuit and isolated ground.
- S1SP4X4 accepts four (4) Hubbell HXJ6, HXJ5E, HXJU; category 6A, 6, 5e, and USOC, and flush series jacks.
- S1SP sub-plate accepts two (2) 15A or 20A Style Line® decorator receptacles, Style Line® data frames, and/or one (1) GFCI or surge receptacle.

### Application Data

- Mounted in 4 in. (101.6) cored concrete diameter through hole.
- Minimum floor thickness: 2¼ in. (57.2).
- UL Listed for fire resistance in 1 – 4 hour rated D900 series floors.
- Approved for use in the City of Chicago.

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
# 8	.01296 sq. in. (8.361mm <sup>2</sup> )

### UL Listed Wiring Capacity

	S1PT4X4 Series	S1PT Series
Fire Resistance Rating	4-Hrs. (D900)	4-Hrs. (D900)
Max. Copper Cross Section	¾ in. Power EMT .0307 sq. in.	1 in. Power EMT .0307 sq. in.
	¾ in. Low Voltage EMT .016 sq. in.	1 in. Low Voltage EMT .024 sq. in.

### UL Characteristics

Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

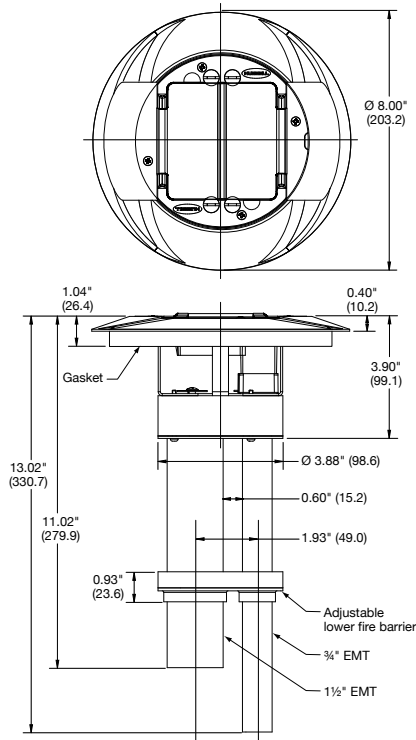
For use in 1, 1½, 2, 3, or 4 hour rated unprotected reinforced concrete floors or in 1, 1½, 2, or 3 hour rated floors employing steel form units and concrete topping (D900 Series designs), or concrete floors with suspended ceilings.

Note: The above product data pertains to both one-piece units, three-piece units and through-floor fittings. When connection conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

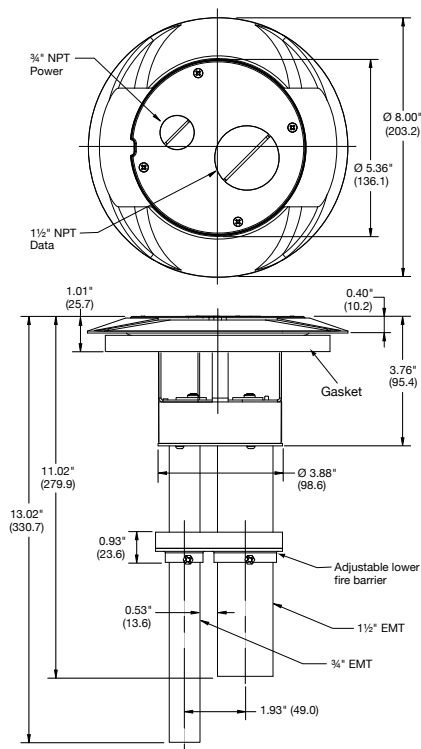
Dimensions in Inches (mm)

## Hubbell SystemOne Flush 4 Inch Series

*S1PTAVFIT and S1PT3IM Series*



*S1PTFF Series*



### Product Information

- Powder coat cast aluminum cover and flange (color finish options: aluminum, brass, black, gray and ivory).
- Hubbell SystemOne universal cover meets ADA standards for accessible design, "changes in level."
- S1PTFF series aluminum conduit insert cover with one (1) 3/4 in. and one (1) 1 1/2 in. die-cast threaded plugs.
- S1PTFF series furnished with one (1) 3/4 in. and one (1) 1 1/2 in. screw-in flexible metal conduit connectors.
- S1PT3IM series sub-plate supplied with pre-wired single 20A 125V black receptacle, NEMA 5-20R.
- S1PT3IM wired with three #12 AWG THHN stranded copper conductors.
- S1PT3IM sub-plate also accepts three unit recessed Hubbell iSTATION; 15-Pin VGA, RCA, S-Video, 3.5 mm stereo and XLR microphone jacks.
- Meets UL 514A scrub water exclusion requirements.

### Application Data

- Mounted in 4 in. (101.6) cored concrete diameter through hole.
- Minimum floor thickness: 2 1/4 in. (57.2).
- UL Listed for fire resistance in 1 – 4 hour rated D900 series floors.
- Approved for use in the City of Chicago.

### UL Listed Wiring Capacity

	S1PTAVFIT and S1PT3IM Series	S1PTFF Series	
Fire Resistance Rating	4-Hrs. (D900)	4-Hrs. (D900)	
Max. Copper Cross Section	3/4 in. Power EMT .0307 sq. in.	3/4 in. Power EMT .072 sq. in.	1 1/2 in. Low Voltage EMT .100 sq. in.
	1 1/2 in. Low Voltage EMT .048 sq. in.		

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
# 8	.01296 sq. in. (8.361mm <sup>2</sup> )

### UL Characteristics

Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

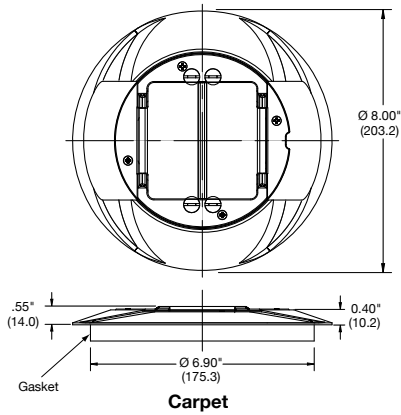
For use in 1, 1 1/2, 2, 3, or 4 hour rated unprotected reinforced concrete floors or in 1, 1 1/2, 2, or 3 hour rated floors employing steel form units and concrete topping (D900 Series designs), or concrete floors with suspended ceilings.

Note: The above product data pertains to both one-piece units, three-piece units and through-floor fittings.  
When connection conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

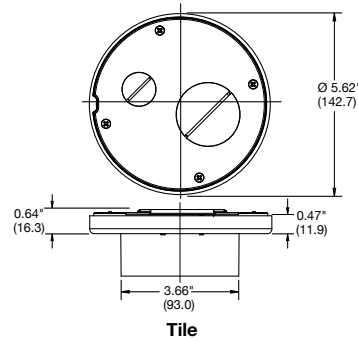
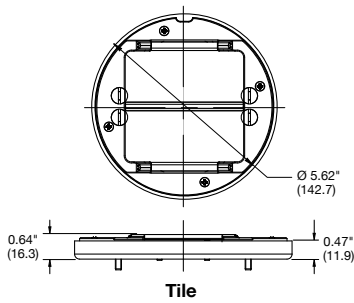
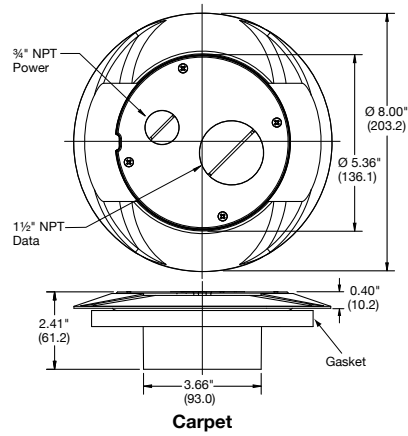
Dimensions in Inches (mm)

## Hubbell SystemOne Flush 4 Inch Series

*S1CFC and S1TFC Series*



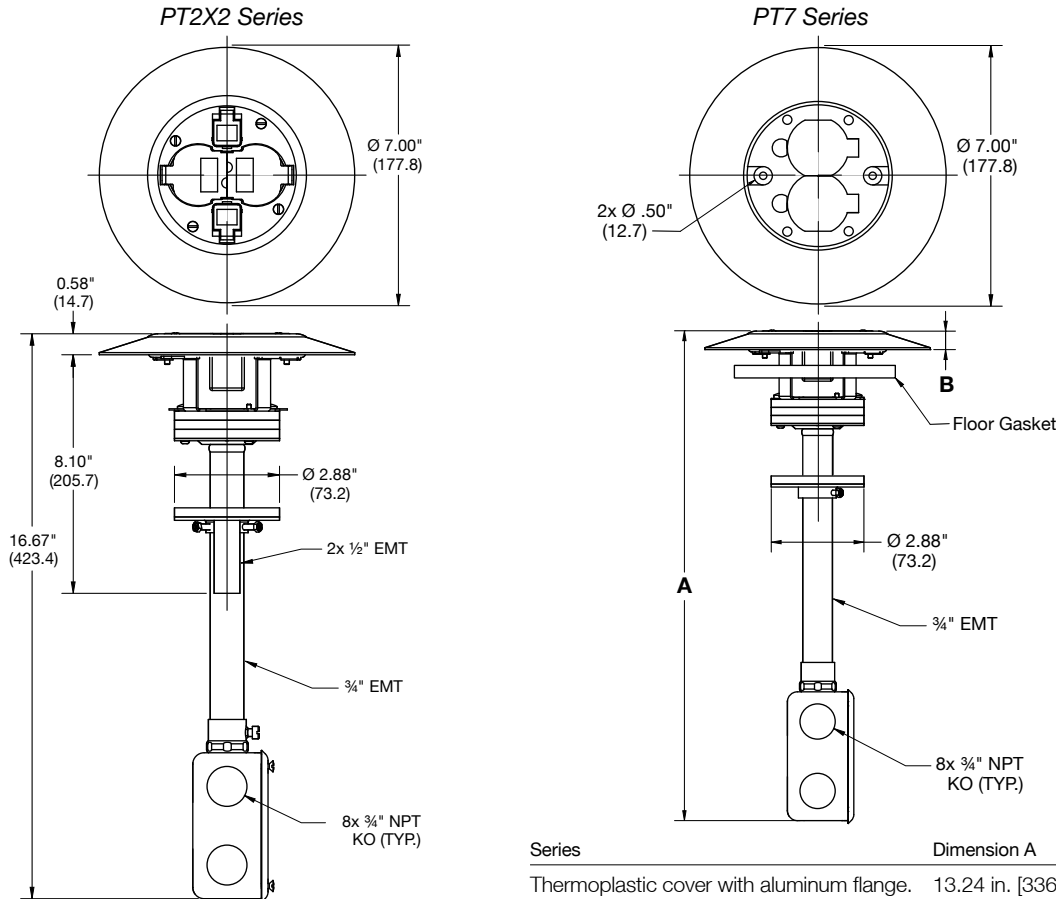
*S1SPFF and S1SPFFT Series*



### Product Information

- Powder coat cast aluminum cover and flange (color finish options: aluminum, brass, black, gray and ivory).
- Hubbell SystemOne universal cover meets ADA standards for accessible design, "changes in level."
- S1SPFF and S1SPFFT series aluminum conduit insert cover with one (1) 3/4 in. and one (1) 1 1/2 in. die-cast threaded plugs.
- S1SPFF and S1SPFFT series furnished with one (1) 3/4 in. and one (1) 1 1/2 in. screw-in flexible metal conduit connectors.
- Meets UL 514A scrub water exclusion requirements.

## Hubbell 3 Inch Series



Series	Dimension A	Dimension B
Thermoplastic cover with aluminum flange.	13.24 in. [336.2]	.51 in. [13.0]
Brass cover and flange.	13.20 in. [335.2]	.49 in. [12.4]

## Product Information

- PT7 series supplied with flush thermoplastic cover with matching painted aluminum flange (black, brown, gray, ivory) or solid brass cover and flange.
- PT2X2 series supplied with Hubbell pre-wired HBL2162BK; black Style Line® or IG2162 (isolated ground) receptacle, NEMA 5-20R, 20A, 125V.
- PT2X2 series supplied with two (2) Hubbell HXJ5EBK black jacks; category 5e, UL Listed, 110 type contacts.
- PT7 series supplied with Hubbell pre-wired HBL5352 or IG5362 (isolated ground) series receptacle, NEMA 5-20R, 20A, 125V.
- PT7 series supplied with two (2) 1/2 in. low voltage feed through holes. Two (2) feed through bushings supplied (cover will not accept data jacks).
- Wired with three (3) #12 AWG THHN stranded copper conductors.
- Supplied with 13.0 cu. in. junction box having eight (8) 3/4 in. knockouts.

## Application Data

- Mounted in 3 in. (76.2) cored concrete diameter through hole.
- Floor thickness range: 2 1/4 to 7 in. (57.2 to 177.8).
- UL Listed for fire resistance in 1 – 4 hour rated floors.
- Approved for use in the City of Chicago (PT2X2 series).

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
#8	.01296 sq. in. (8.361mm <sup>2</sup> )

## UL Listed Wiring Capacity

	PT2X2 Series		PT7 Series	
Fire Resistance Rating	4-Hrs. (D900)		4-Hrs. (D900)	
Max. Copper Cross Section	3/4 in. Power EMT .0155 sq. in.	1/2 in. Data EMT .0026 sq. in.	3/4 in. Power EMT .0155 sq. in.	Low Voltage EMT .0250 sq. in.

## UL Characteristics

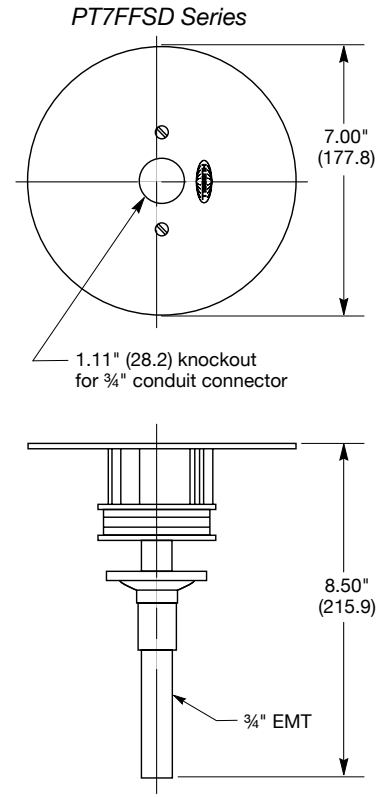
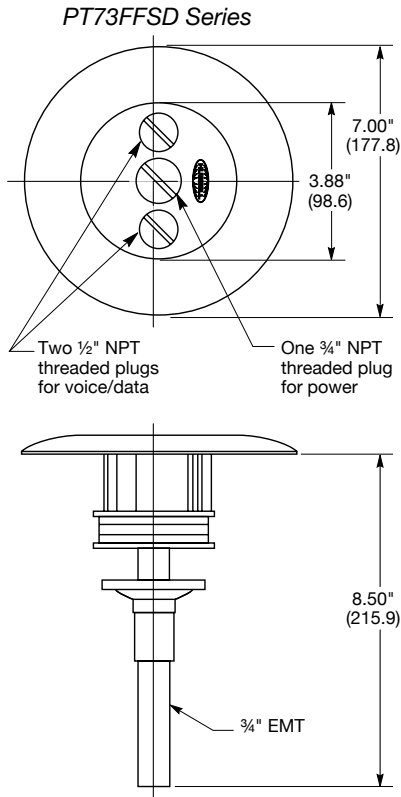
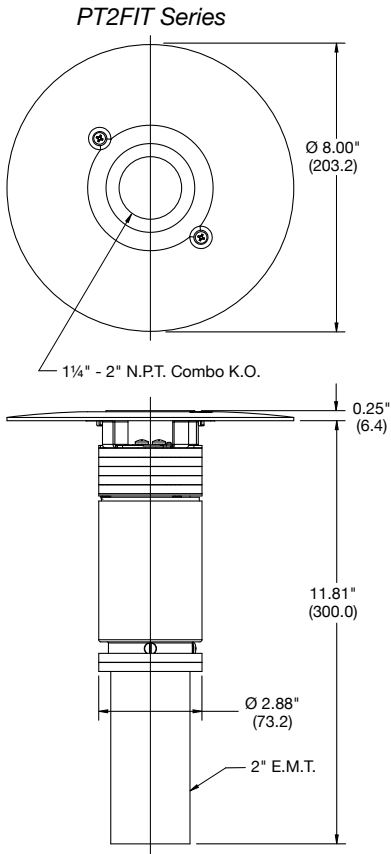
Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

For use in 1, 1 1/2, 2, 3 or 4 hour rated unprotected reinforced floors or in 1, 2, or 3 hour rated floors employing steel floor units and concrete topping (D900 Series designs).  
UL Spacing Restrictions - Minimum of 2 ft. on center and not more than one unit per each 65 square feet of floor area in each span.

Note: When connecting conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.  
The above product data pertains to both one-piece units and through-floor fittings.

Dimensions in Inches (mm)

## Hubbell 3 Inch Series



### Product Information

#### PT2FIT series

- Flush aluminum service fitting with epoxy paint finish (gray, black and brass finish).
- Aluminum conduit cover with 2.47 in. (62.7) and 1.74 in. (44.2) combination knockouts to accept a 2 in. or 1 1/4 in. NPT flexible metal conduit connector.

#### PT73FFSD series

- Flush painted aluminum service fitting and carpet flange (color finish options: black, gray and ivory).
- Aluminum conduit insert cover with one (1) 3/4 in. and two (2) 1/2 in. die-cast threaded plugs.
- Supplied with one (1) 3/4 in. and two (2) 1/2 in. screw-in flexible metal conduit connectors.

#### PT7FFSD series

- Flush aluminum service fitting with epoxy paint finish (color finish options: gray, ivory and brass finish).
- Aluminum conduit cover with 1.11 in. (28.2) knockout to accept a 3/4 in. NPT flexible metal conduit connector.

### Application Data

- Mounted in 3 in. (76.2) cored concrete diameter through hole.
- Floor thickness range: 2 1/4 in. to 7 in. (57.2 to 177.8).
- PT2FIT series has single-service, power or data.
- UL Listed for fire resistance in 1 – 2 hour (PT2FIT series) rated floors.
- UL Listed for fire resistance in 1 – 4 hour (PT73FFSD and PT7FFSD series) rated floors.
- Approved for use in the City of Chicago (PT2FIT series).

### UL Listed Wiring Capacity

	PT2FIT Series	PT73FFSD Series	PT7FFSD Series
Fire Resistance Rating	2-Hrs. (D900)	4-Hrs. (D900)	4-Hrs. (D900)
Max. Copper Cross Section	2 in. EMT .0922 sq. in.	3/4 in. EMT .0470 sq. in.	1/2 in. Feed Through .0250 sq. in.
			3/4 in. EMT .0500 sq. in.

Wire Size (AWG)	Copper Cross Sectional Area for Solid or Stranded Conductors
#24	.00032 sq. in. (.206mm <sup>2</sup> )
#23	.00040 sq. in. (.258mm <sup>2</sup> )
#22	.00050 sq. in. (.322mm <sup>2</sup> )
#14	.00323 sq. in. (2.083mm <sup>2</sup> )
#12	.00512 sq. in. (3.303mm <sup>2</sup> )
#10	.00815 sq. in. (5.258mm <sup>2</sup> )
# 8	.01296 sq. in. (8.361mm <sup>2</sup> )

### UL Characteristics

Listing	UL File Number	ULC File Number
Outlet Box	E31999	CEYYC
Fire Resistance	R8429	R8429

For use in 1, 1 1/2, or 2 hour rated unprotected reinforced floors or in 1 or 2 hour rated floors employing steel floor units and concrete topping (D900 Series designs).  
UL Spacing Restrictions - Minimum of 2 ft. on center and not more than one unit per each 65 square feet of floor area in each span.

Note: The above product data pertains to both one-piece units and through-floor fittings.

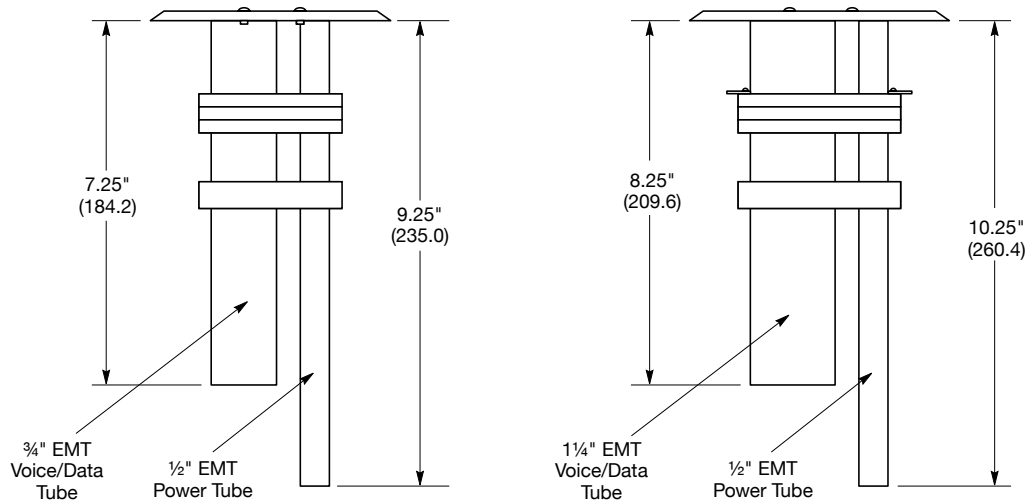
When connection conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

Dimensions in Inches (mm)



## Pedestal FRPT Series

Pedestal Fitting Series



### Applications

	PT27A	PT7XC
Mounting	2 in. (50.8) diameter hole.	3 in. (76.2) diameter hole.
Floor Thickness Range	2 1/4 in. to 7 in. (57.2 to 177.8)	2 1/4 in. to 7 in. (57.2 to 177.8)
Fire Rating	For use in 1, 1 1/2, 2, 3 or 4 hour rated unprotected reinforced concrete floors or in 1, 2 or 3 hour rated employing steel floor units and concrete topping (D900 series design).	For use in 1, 1 1/2, 2, 3 or 4 hour rated unprotected reinforced concrete floors or in 1, 2 or 3 hour rated floors employing steel floor units and concrete topping (D900 series design).
Service Pedestal Options	FR280, FR480, FR680 Series.	FR480 and FR680 Series.

### UL Listed Wiring Capacity

Power Wiring Capacity	1/2 in. inch EMT power tube Handles: Up to ten #12 AWG type THHN wires, or Up to six #12 AWG and two #10 AWG type THHN wires.		1/2 in. inch EMT power tube Handles: Up to ten #12 AWG type THHN wires, or Up to six #12 AWG and two #10 AWG type THHN wires.	
Voice/Data Wiring Capacity	3/4 in. inch EMT low-voltage tube Handles: Up to two 25 pair tel./data cables (100 #22 AWG tel./data conductors), or Up to two IBM Type 2 data cables.		1 1/4 in. inch EMT low-voltage tube Handles: Up to four 25 pair tel./data cables (200 #22 AWG tel./data conductors), or Up to five IBM Type 2 data cables and four 8-conductor tel./data cables.	
Total Allowable Copper Cross-Sectional Area	1/2" Power EMT .0461 sq. in.	3/4" Low Voltage EMT .0500 sq. in.	1/2" Power EMT .0461 sq. in.	1 1/2" Low Voltage EMT .1000 sq. in.

When conductors larger than #22 AWG are used, the total cross-sectional area of the copper conductors shall not exceed the total cross-sectional area of the #22 AWG conductors permitted in the low voltage compartment.

Note: When connecting conduit sweeps to through-floor fittings, ensure compliance with NEC fill tables.

### UL Characteristics

Listing	UL File Number	UL File Number
Outlet Box	E31999	E31999
Fire Resistance	R8429	R8429

For use in 1, 1 1/2, 2, 3, or 4 hour rated unprotected reinforced concrete floors or in 1, 2 or 3 hour rated floors employing steel floor units and concrete topping (D900 Series designs).

UL Spacing Restrictions - Minimum of 2 ft. O.C. and not more than one unit per each 65 sq. ft. of floor area in each span.

### Chicago Approved

Catalog Number	City of Chicago File Number
PT27A, PT7XC	5587E

These through-floor fittings are approved for the City of Chicago. Installation requires a plenum-rated 1900 series box or a handy box with gasketed cover. These boxes are to be affixed with compression gland-type connectors.

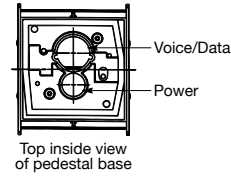
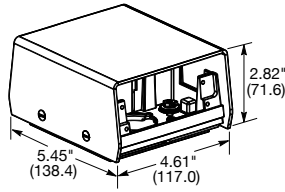
Dimensions in Inches (mm)

## Pedestal FRPT Series

*Painted and Brushed Aluminum Series*

### Dimensions

#### 2-Gang – FR280 Series



Total Cubic Inch Capacity (Single-Service) 39.00 in. (638.8cm<sup>3</sup>)

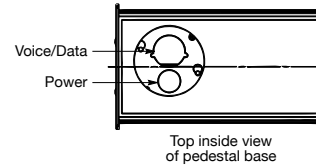
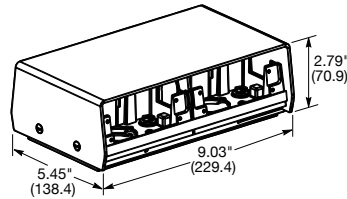
Cubic Inch Capacity Power 19.5 in. (319.4cm<sup>3</sup>)

(when divided for multi-service) Voice/Data 19.5 in. (319.4cm<sup>3</sup>)

Service Pedestal Construction Heavy gauge galvanized steel frame with aluminum housing and face plates.

Pedestal Finish Textured black or gray epoxy paint.

#### 4-Gang – FR480



Total Cubic Inch Capacity (Single-Service) 78.00 in. (1277.6cm<sup>3</sup>)

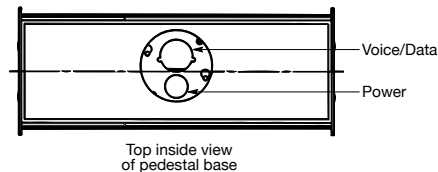
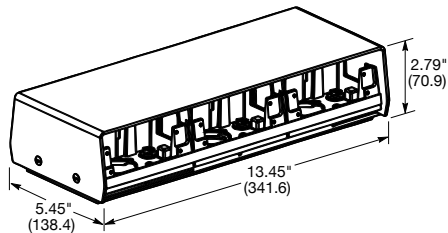
Cubic Inch Capacity Power 39.00 in. (638.8cm<sup>3</sup>)

(when divided for multi-service) Voice/Data 39.00 in. (638.8cm<sup>3</sup>)

Service Pedestal Construction Heavy gauge galvanized steel frame with aluminum housing and face plates.

Pedestal Finish Textured black or gray epoxy paint.

#### 6-Gang – FR680



Total Cubic Inch Capacity (Single-Service) 117.00 in. (1916.4cm<sup>3</sup>)

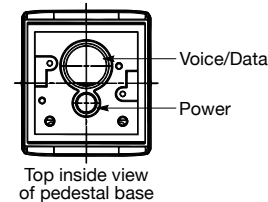
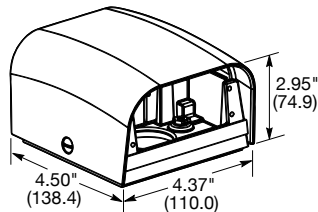
Cubic Inch Capacity Power 58.5 in. (958.2cm<sup>3</sup>)

(when divided for multi-service) Voice/Data 58.5 in. (958.2cm<sup>3</sup>)

Service Pedestal Construction Heavy gauge galvanized steel frame with aluminum housing and face plates.

Pedestal Finish Textured black or gray epoxy paint.

#### 2-Gang – FR80AL



Total Cubic Inch Capacity (single service) 33.00 in. (540.9 cu cm<sup>3</sup>)

Cubic Inch Capacity Power 8.80 in. (144.2cm<sup>3</sup>)

(when divided for multi-service) Voice/Data 26.70 in. (437.6cm<sup>3</sup>)

Service Pedestal Construction Heavy gauge aluminum frame with satin anodized aluminum housing with 302/304 stainless steel face plates.

Pedestal Finish Brushed.

*Dimensions in Inches (mm)*

# SECTION Q



## Table of Contents



Two Duplex Receptacles  
or Blank Pole



Isolated Ground or  
Surge Suppression



GFCI Self Test and  
Duplex Receptacles



Product	Page
Products at a Glance	Q-2
Features and Benefits	Q-3
Aluminum Series Offering	Q-4
Custom Pole Configurations	Q-5
Division 16 Specifications	Q-6



## Products at a Glance



### Two Duplex Receptacles or Blank Pole

- (2) 20A 125V Style Line® duplex receptacles; one circuit
- Available in three standard lengths to accommodate a variety of applications
- Available in five attractive durable paint colors: a gray, ivory, black, white and office white painted and clear anodized aluminum finishes to suit every need



### Isolated Ground or Surge Suppression

- (1) Orange isolated ground 20A 125V Style Line® duplex receptacle;
- (1) 20A 125V Style Line® duplex receptacle; two circuits
- (2) Orange isolated ground 20A 125V Style Line® duplex receptacles;
- (1) isolated ground surge suppression 20A 125V duplex receptacle; one circuit



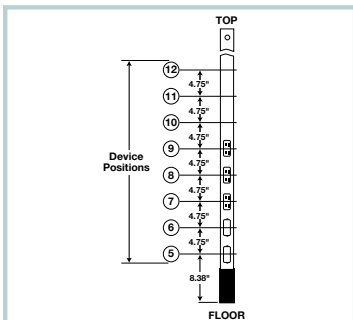
### GFCI Self Test and Duplex Receptacles

- (1) 20A 125V GFCI Self Test duplex receptacle with (2) ground fault protected 20A 125V Style Line® duplex receptacles; one circuit



### Adjustable T-Bar and Trim Kit

- Adjustable T-bar for mounting poles in the middle of the ceiling tiles
- All service poles include ceiling trim plates, replacements also available



### Custom Pole Configurations

- Create your own custom service poles using the chart on page Q-5
- For configurations that require additional customization, please consult Hubbell Technical Service



IEC Pin and Sleeve Accessories Back Box

**HUBBELL**

**Ordering Information**

Description	Device Color	UPC	Catalog Number
Non-Metallic Back Box	Gray	703863306871	882620A

**Listings**

UL Type 1 and External Listing Table

**Specifications**

Accessory Item	Non-Metallic Back Box
Back Box	15 Degree Angle
Box Trip Size	1" NPT

**Performance**

Environmental	
Moisture Resistance	IP37 Suitability

**Accessories**

Receptacle/Panel Accommodation: 16A, 20A, 30A & 32A IEC Pin & Sleeve  
 Receptacle/Panel Accommodation: Watertight Safety-Shrouds

**Resources**

Customer Link (Training)  
 #C48809

Dimensions in Inches (mm)  
 Hubbell Wiring Device-Kellems • Hubbell Incorporated Entrance • 40 Waterline Drive • Shelton, CT 06484  
 Phone (802) 286-8000 • Fax (802) 286-1001 • Application Support • [help@hwb.com](mailto:help@hwb.com)

## eSpec Sheets Available Online

- Product Features
- Specifications
- Dimensions
- Performance
- Complementary Products

# Aluminum Service Poles



## Features and Benefits

### Aluminum Series Offering

Hubbell offers a line of attractive and durable Aluminum Service Poles which distribute power and telecommunications wiring from above the ceiling to workstations below.

They are offered in standard lengths of 10' 2", 12' 2", and 15' 2" with a variety of electrical wiring devices. Poles with three service capability have a divider to separate power and low voltage wiring.

These customizable power poles effectively distribute power, fiber, and data cabling from the ceiling to the floor. Available in varying lengths and colors, custom options maximize space and allow workstations, retail checkout areas, collaboration areas, digital signage, vending machines, appliances, and kiosks to be pulled away from the wall.

- Factory ordered custom pole lengths and configurations available for special applications
- UL listed
- Suitable for retail checkout area applications



### Housing Design

- Poles with three service capability ideal for delivering power, fiber, and data cabling from the ceiling to the floor
- Available in three standard lengths to accommodate a variety of applications
- Style Line® duplex receptacles and two Style Line® knockouts for communications



### Accessories

- Each pole include a ceiling trim mounting plate and bottom scuff boot



### Colors Available

- Available in five attractive durable paint colors: gray, ivory, black, white and office white painted and clear anodized aluminum finishes to suit every need



Black



Ivory



Gray



Office White



White



Clear Anodized  
Aluminum



# Aluminum Service Poles



## Aluminum Series Offering



HBLPP10AI



HBLPP10IGA

HBLPP10SAI



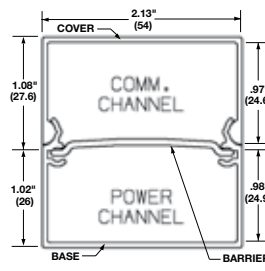
HBLPP10GFW



ATB



PPTRIM1



### Three Service Aluminum Service Poles

Height Feet (m)

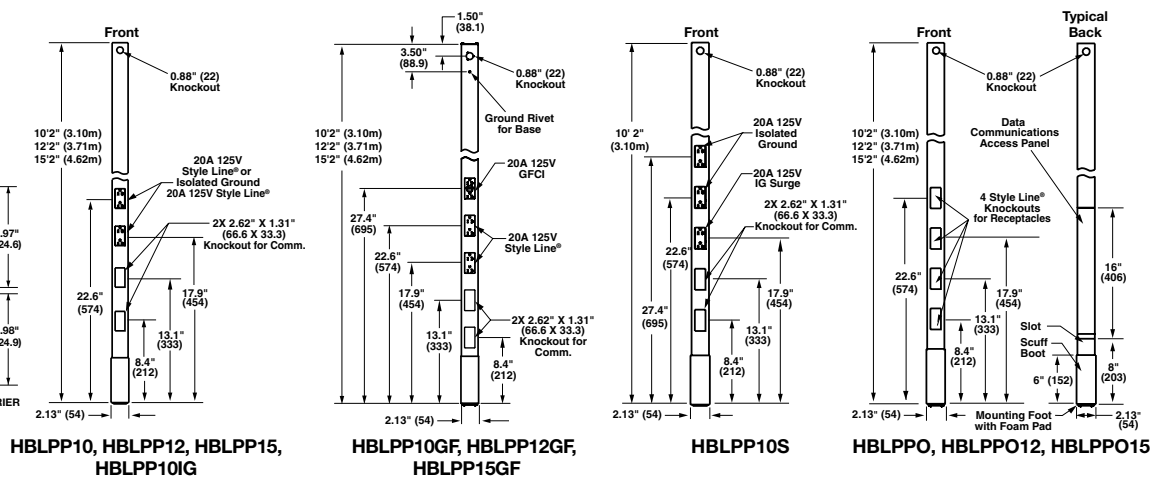
Description	Color	10' 2" (3.10m)	12' 2" (3.71m)	15' 2" (4.62m)
(2) 20A 125V Style Line® duplex receptacles; one circuit	Black	<b>HBLPP10BK</b>	<b>HBLPP12BK</b>	<b>HBLPP15BK</b>
	Gray	<b>HBLPP10A</b>	<b>HBLPP12A</b>	<b>HBLPP15A</b>
	Ivory	<b>HBLPP10AI</b>	<b>HBLPP12AI</b>	<b>HBLPP15AI</b>
	Office White	<b>HBLPP10OW</b>	<b>HBLPP12OW</b>	<b>HBLPP15OW</b>
	White	<b>HBLPP10W</b>	<b>HBLPP12W</b>	<b>HBLPP15W</b>
	Clear Anodized Aluminum	<b>HBLPP10AAL</b>	<b>HBLPP12AAL</b>	<b>HBLPP15AAL</b>
(1) Orange isolated ground 20A 125V Style Line® duplex receptacle; (1) 20A 125V Style Line® duplex receptacle; two circuits	Black	<b>HBLPP10IGBK</b>	—	—
	Gray	<b>HBLPP10IGA</b>	—	—
	Ivory	<b>HBLPP10IGAI</b>	—	—
	Office White	<b>HBLPP10IGOW</b>	—	—
	White	<b>HBLPP10IGW</b>	—	—
	Clear Anodized Aluminum	<b>HBLPP10IGAL</b>	—	—
(2) Orange isolated ground 20A 125V Style Line® duplex receptacles; (1) isolated ground surge suppression 20A 125V duplex receptacle; one circuit	Black	<b>HBLPP10SBK</b>	—	—
	Gray	<b>HBLPP10SA</b>	—	—
	Ivory	<b>HBLPP10SAI</b>	—	—
	Office White	<b>HBLPP10SOW</b>	—	—
	White	<b>HBLPP10SW</b>	—	—
	Clear Anodized Aluminum	<b>HBLPP10SAL</b>	—	—
(1) 20A 125V GFCI Self Test duplex receptacle with (2) ground fault protected 20A 125V Style Line® duplex receptacles; one circuit	Black	<b>HBLPP10GFBK</b>	<b>HBLPP12GFBK</b>	<b>HBLPP15GFBK</b>
	Gray	<b>HBLPP10GF</b>	<b>HBLPP12GF</b>	<b>HBLPP15GF</b>
	Ivory	<b>HBLPP10GFI</b>	<b>HBLPP12GFI</b>	<b>HBLPP15GFI</b>
	Office White	<b>HBLPP10GFW</b>	<b>HBLPP12GFW</b>	<b>HBLPP15GFW</b>
	White	<b>HBLPP10GFW</b>	<b>HBLPP12GFW</b>	<b>HBLPP15GFW</b>
	Clear Anodized Aluminum	<b>HBLPP10GFAL</b>	<b>HBLPP12GFAL</b>	<b>HBLPP15GFAL</b>
Blank pole; divider; (4) Style Line® device knockouts	Black	<b>HBLPPOBK</b>	<b>HBLPPO12BK</b>	<b>HBLPPO15BK</b>
	Gray	<b>HBLPPOA</b>	<b>HBLPPO12A</b>	<b>HBLPPO15A</b>
	Ivory	<b>HBLPPOAI</b>	<b>HBLPPO12AI</b>	<b>HBLPPO15AI</b>
	Office White	<b>HBLPPOOW</b>	<b>HBLPPO12OW</b>	<b>HBLPPO15OW</b>
	White	<b>HBLPPOW</b>	<b>HBLPPO12W</b>	<b>HBLPPO15W</b>
	Clear Anodized Aluminum	<b>HBLPPOAAL</b>	<b>HBLPPO12AAL</b>	<b>HBLPPO15AAL</b>

### Accessories

Description	Catalog Number
Adjustable T-bar assembly for mounting poles in the middle of ceiling tile.	<b>ATB*</b>
Replacement service pole trim kit (office white).	<b>PPTRIM1*</b>

Note: \* Not UL listed.

### Dimensions



Dimensions in Inches (mm)

# Aluminum Service Poles



## Custom Pole Configurations

Using the chart below, you can create a custom service pole. For configurations that require additional customization, please consult Hubbell Technical Service at (475) 882-4800.

Position		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Selections	<b>S</b> <b>P</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>C</b>	<b>I</b>

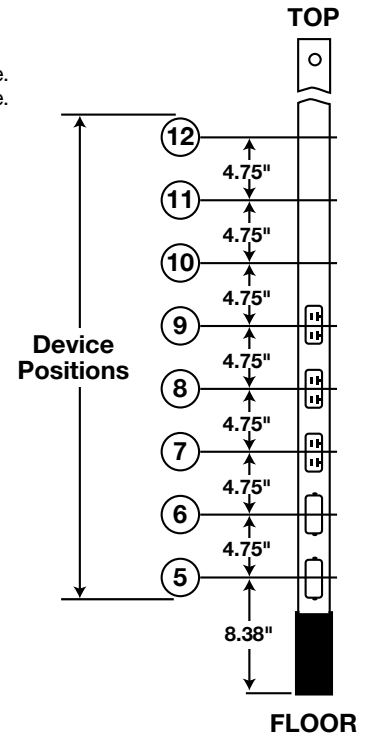
**Example: SP100211BBBXXXCI**

10 Feet 02 Inches, (2) Rectangular Style Line® Knockouts for Data, (3) HBL2162 Duplex Receptacles, (2) Circuits (First 2 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2), Ivory.

**Worksheet**

Position		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Selections	<b>S</b> <b>P</b>														

<b>Position 1 &amp; 2:</b> Height to the nearest foot.	08-22 Feet.
<b>Position 3 &amp; 4:</b> Height in inches up to 11".	00-11 Inches.
<p><b>Position 5, 6, 7, 8, 9, 10, 11, 12:</b> Starting at <b>Position 5</b> Select Datacom Knockouts/Device Frames followed by Power Receptacle/Power Knockout options. If the service pole is power only, select receptacle options starting at <b>Position 5</b>. Empty <b>Positions</b> should be filled with an "X" to designate an empty field.</p> <p><i>Note: If power receptacles are chosen, then power knockouts may not be chosen in the same service pole.</i></p>	<p><b>Data Selections</b> 1 - Rectangular Style Line® Knockout. 2 - ½" NPT Knockout (0.875" diameter). 3 - ¾" NPT Knockout (1.109" diameter). 4 - 2-Port Style Line® Data Frame, 1-Gang, 2 Port Voice/Data Frame. 5 - 3-Port Style Line® Data Frame, 1-Gang, 3 Port Voice/Data Frame.</p> <p><b>Power Selections</b> 6 - Rectangular Style Line® Knockout (for blank poles only). 7 - ½" NPT Knockout (0.875" diameter, for blank poles only). 8 - ¾" NPT Knockout (1.109" diameter, for blank poles only). A - 5362, 20A, 125V AC, Duplex. B - HBL2162, 20A, 125V AC, Style Line® Decorator Duplex. C - IG5362, 20A, 125V AC, I.G. Duplex. D - IG2162, 20A, 125V AC, I.G. Style Line® Decorator Duplex. G - HBL4700, 15A, 125V AC, Twist-Lock® Duplex. H - IG4700A, 15A, 125V AC, I.G. Twist-Lock® Duplex. I - IG2310, 20A, 125V AC, I.G. Twist-Lock® Single. J - IG5361, 20A, 125V AC, I.G. Single. K - HBL5361, 20A, 125V AC, Single. L - HBL2310, 20A, 125V AC, Twist-Lock® Single. M - HBL2610, 30A, 125V AC, Twist-Lock® Single. N - HBL2320, 20A, 250V AC, Twist-Lock® Single. O - HBL2620, 30A, 250V AC, Twist-Lock® Single. Q - IG4710, 15A, 125V AC, I.G. Twist-Lock® Single. R - HBL4710, 15A, 125V AC, Twist-Lock® Single. S - HBL5662, 15A, 250V AC, Duplex. T - IG5662, 15A, 250V AC, I.G. Duplex. U - HBL5661, 15A, 250V AC, Single. V - IG5661, 15A, 250V AC, I.G. Single. W - HBL5462, 20A, 250V AC, Duplex.</p>
<b>Position 13:</b> Power Circuits	<p>Z - No Circuits (Should only be selected when the service poles has ONLY Data and/or Power knockouts). A - All devices on a single circuit. B - 2 Circuits, First Receptacle on Circuit #1, Remaining Receptacles on Circuit #2. C - 2 Circuits, First 2 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2. D - 2 Circuits, First 3 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2. E - 2 Circuits, First 4 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2. F - 2 Circuits, First 5 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2. G - 2 Circuits, First 6 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2. H - 2 Circuits, First 7 Receptacles on Circuit #1, Remaining Receptacles on Circuit #2.</p>
<b>Position 14:</b> Color	<p>I - Ivory. G - Gray. W - White. K - Black. A - Aluminum with clear anodized finish.</p>





## Division 16 Specifications

### Part 2: Products

#### 2.01 Manufacturer

A. The power poles specified herein for branch circuit wiring shall be Hubbell Service Poles as manufactured by Hubbell Inc., Wiring Device-Kellems® or approved equal. Other manufacturers may be considered equal if they meet the performance requirements of this specification and have received prior written approval.

#### 2.02 Components/Accessories

A. The hardware for mounting Service Poles in the middle of a ceiling tile shall be Hubbell adjustable T-Bar type ATB with trim plate kit type PPTRIM1.

#### 2.03 Materials

### A. Standard and Custom Aluminum Service Poles

These Service Poles shall be extruded aluminum with a heavy gauge body (.050 ±.005 inches thick) to resist denting. These poles shall be two-channel to accommodate both power and low voltage services on the same side of the pole. Service poles shall be pre-wired with #12 AWG wire and equipped with specification grade Style Line® decorator receptacles (20A, 125V). These receptacles shall be Hubbell type HBL2162xx or an approved equal. The low voltage (back) channel of the service pole shall incorporate an access panel that provides a passageway to two Style Line® communication knockouts located on the front of the pole.

#### Finish

Service Poles will include a painted or clear anodized finish.

Custom poles are available in Black, Gray, Ivory, Office White, White, and Clear Anodized Aluminum.

#### Heights

Standard Service Poles shall be available in three sizes to accommodate various ceiling heights: 10 ft. 2 in. (3.10m), 12 ft. 2 in. (3.71m) and 15 ft. 2 in. (4.62m). Custom Poles shall be available in a range of sizes, a configurator pole is 8 through 22 ft. Other custom poles can be as short as 6 in. through 22 ft.

10 ft. 2 in. (3.10m): Hubbell type HBLPP10BK, HBLPP10A, HBLPP10AI, HBLPP10OW, HBLPP10W, and HBLPP10AAL.

12 ft. 2 in. (3.71m): Hubbell type HBLPP12BK, HBLPP12A, HBLPP12AI, HBLPP12OW, HBLPP12W, and HBLPP12AAL.

15 ft. 2 in. (4.62m): Hubbell type HBLPP15BK, HBLPP15A, HBLPP15AI, HBLPP15OW, HBLPP15W, and HBLPP15AAL.

8-22 feet: Hubbell Custom Poles.

### 2. Isolated Ground

The following Service Poles contain one Hubbell isolated ground receptacle Hubbell #IG2162 and one #HBL2162xx, both 20A, 125V Style Line® decorator receptacles (wired on separate circuits). Custom poles with a variety of receptacles may also include isolated ground type devices. 10 ft. 2 in. (3.10m): Isolated Ground; Hubbell Type HBLPP10IGBK, HBLPP10IGA, HBLPP10IGAI, HBLPP10IGOW, HBLPP10IGW, and HBLPP10IGAL.

### 3. Surge Suppression/Isolated Ground

The following Service Poles contain one Hubbell #IG5362xxSA (20A, 125V Surge/IG Style Line® decorator duplex) and two #IG2162 (20A, 125V IG Style Line® decorator duplex) receptacles. All receptacles are wired on the same circuit, therefore providing surge protection at each outlet. Custom poles with a variety of receptacle options may also include surge suppression. 10 ft. 2 in. (3.10m): With Surge; Hubbell Type HBLPP10SBK, HBLPP10SA, HBLPP10SAI, HBLPP10SOW, HBLPP10SW, and HBLPP10SAL.

### 4. GFCI

The following Service Poles contain one Hubbell #GFST20 (20A, 125V GFCI Self Test Style Line® decorator duplex) and two #HBL2162 (20A, 125V Style Line® decorator duplex) receptacles. All receptacles are wired on the same circuit, the two HBL2162 are GFCI protected by being wired to the load side of the GFST20.

10 ft. 2 in. (3.10m): Hubbell type HBLPP10GFBK, HBLPP10GF, HBLPP10GFI, HBLPP10GFOW, HBLPP10GFW, and HBLPP10GFAL.

12 ft. 2 in. (3.71m): Hubbell type HBLPP12GFBK, HBLPP12GF, HBLPP12GFI, HBLPP12GFOW, HBLPP12GFW, and HBLPP12GFAL.

15 ft. 2 in. (4.62m): Hubbell type HBLPP15GFBK, HBLPP15GF, HBLPP15GFI, HBLPP15GFOW, HBLPP15GFW, and HBLPP15GFAL.

### 5. Blank

The following Service Poles are two-channel and do not include receptacles or wiring. All poles include a barrier which starts between the second and third knockout positions from the bottom of the pole. Custom poles with or without a barrier are available as well.

10 ft. 2 in. (3.10m): Hubbell type HBLPPOBK, HBLPPOA, HBLPPOAI, HBLPPOOW, HBLPPOW, and HBLPPOAAL.

12 ft. 2 in. (3.71m): Hubbell type HBLPPO12BK, HBLPPO12A, HBLPPO12AI, HBLPPO12OW, HBLPPO12W, and HBLPPO12AAL.

15 ft. 2 in. (4.62m): Hubbell type HBLPPO15BK, HBLPPO15A, HBLPPO15AI, HBLPPO15OW, HBLPPO15W, and HBLPPO15AAL.

### B. Voice/Data Interface

All Service Poles must allow for acceptance of Hubbell Style Line® communication outlets.

# SECTION R

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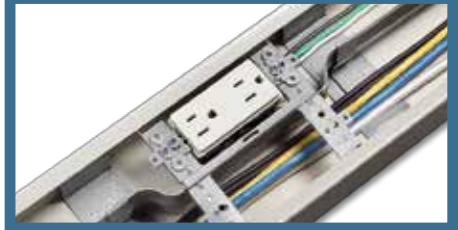
### Metal Raceway



### Non-Metallic Raceway



### Pre-Wired Raceway

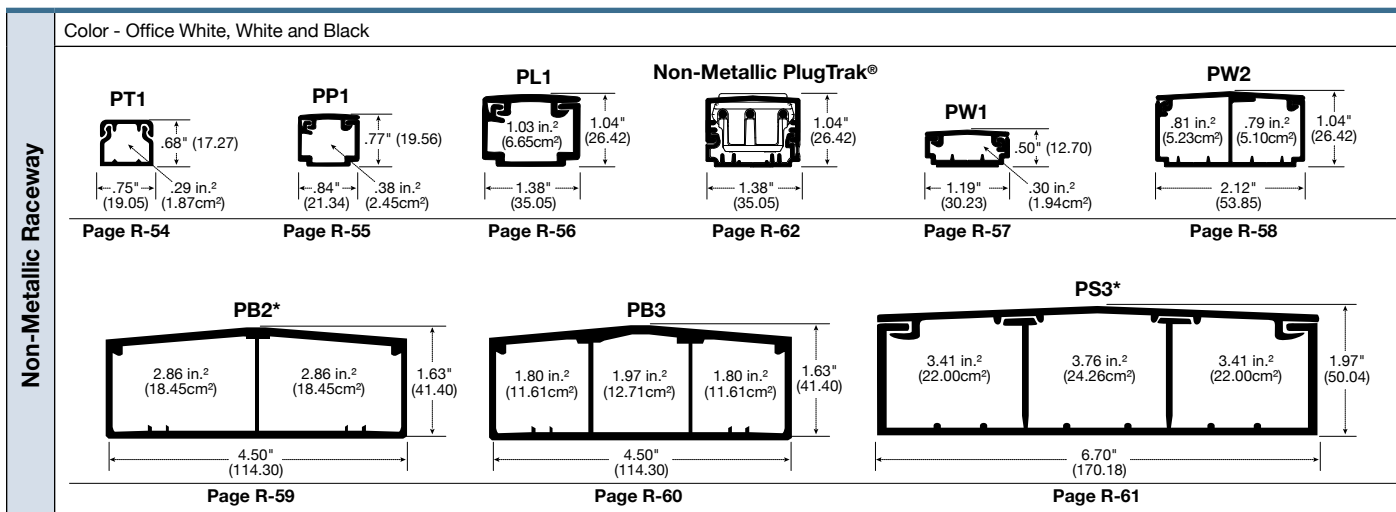
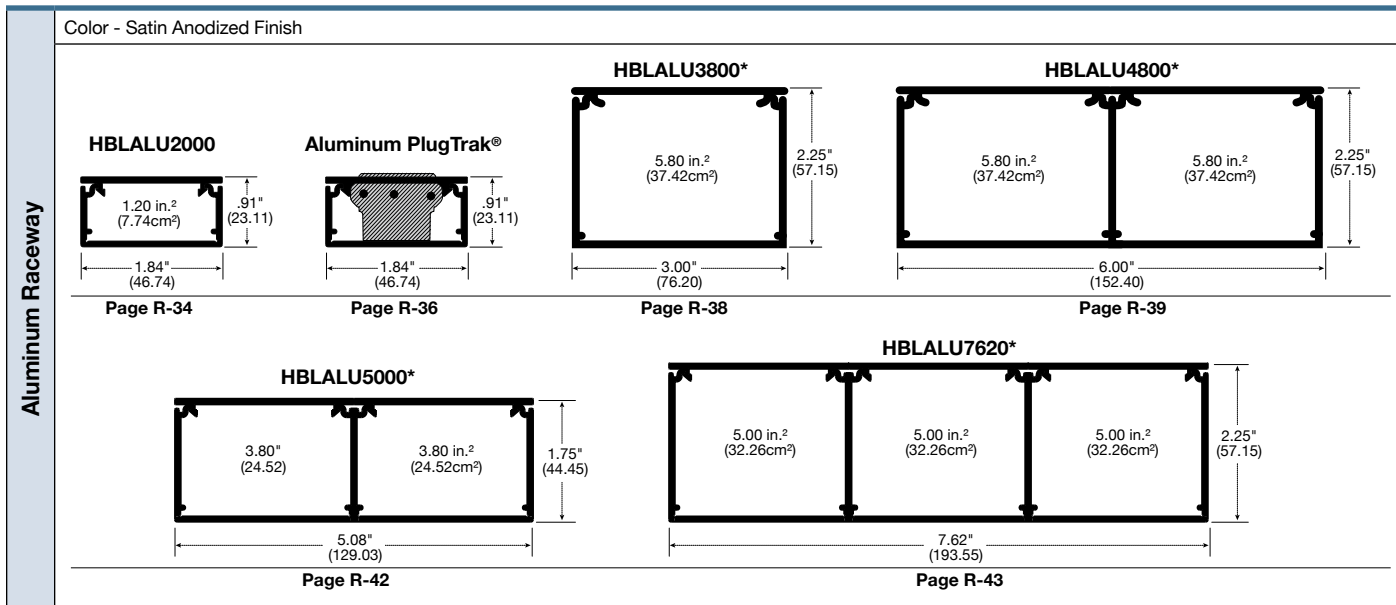
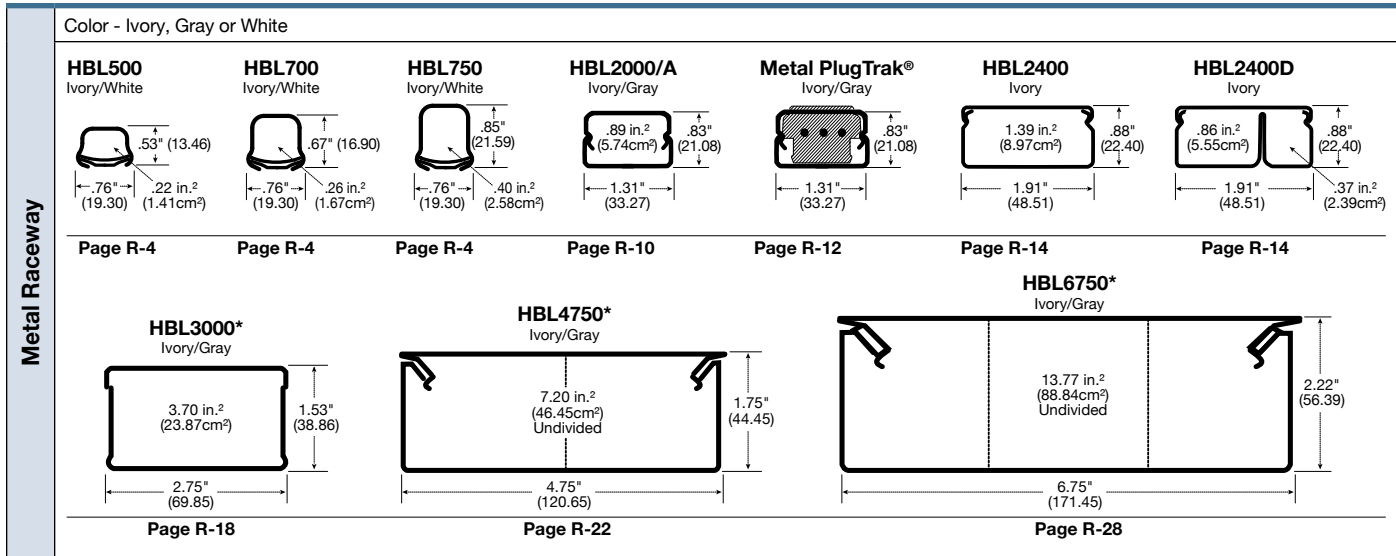


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## Raceway Profiles - Quick Reference Guide



Note: \*Available in PRE-WIRED.  
Channel Area in Square Inches (square centimeters).



# Metal Raceway

## Products at a Glance



### HBL500, HBL700 and HBL750 Series

- Hubbell's exclusive HBL750 Series adds an additional profile for data and electrical applications



### Innovative Box Design

- Hubbell Handi-Screw® eases installation by eliminating difficult to install long screws
- Rounded corners with no sharp edges
- One seam construction provides a “clean” look
- Box design allows standard wallplates to be mounted flush with virtually no perimeter profile exposed
- Full line of metal wallplates available  
See page R-45 for selection



### Enhanced Datacom Capabilities

- Capacity for up to five Category 5e, three Category 6, or two Category 6A cables
- Available with 1½ in. (38.10) Category 6 and 6A bend radius fittings
- Largest single channel low profile raceway available in its class
- Ideal for datacom and oversized neutral applications



### White Metal Raceway

- HBL750 Series available in white
- Full line of product
- Additional color options available for architects and interior designers

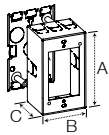


### Retrofit Box for Fire Alarm Detectors

- Fits most manufacturers of audible alarm systems
- Compatible with HBL500, HBL700 and HBL750 Series Metal Raceway
- Available in white and ivory

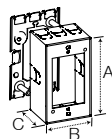
## HBL500, HBL700 and HBL750 Series

HBL500, HBL700 and HBL750 Series	Description	Color	Length	HBL500 Series	HBL700 Series	HBL750 Series
	<b>Base and Cover</b> Available in 5 ft. (1.5m) lengths, packed 50 ft. (15m) per carton and 10 ft. (3m) lengths, packed 100 ft. (30m) per carton. HBL5701C coupling furnished with each length.	Ivory Ivory White	5 ft. 10 ft. 10 ft.	— <b>HBL50010IV</b> <b>HBL50010W</b> A: .53" (13.46) B: .76" (19.30)	— <b>HBL700IV</b> <b>HBL700W</b> A: .67" (16.90) B: .76" (19.30)	<b>HBL7505IV</b> <b>HBL75010IV</b> <b>HBL75010W</b> A: .85" (21.59) B: .76" (19.30)



	Color	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
<b>Standard</b>	Ivory	<b>HBL5748IVA</b>	<b>HBL57482IVA</b>	<b>HBL57483IVA</b>	<b>HBL57484IVA</b>	<b>HBL57485IVA</b>	<b>HBL57486IVA</b>
	White	<b>HBL5748WA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.75" (44.45)	<b>HBL57482WA</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 1.75" (44.45)	<b>HBL57483WA</b> A: 4.54" (115.32) B: 6.45" (163.88) C: 1.75" (44.45)	— A: 4.54" (115.32) B: 8.26" (209.91) C: 1.75" (44.45)	— A: 4.54" (115.32) B: 10.01" (255.93) C: 1.75" (44.45)	— A: 4.54" (115.32) B: 11.89" (301.96) C: 1.75" (44.45)
<b>Shallow</b>	Ivory	<b>HBL5747IVA</b>	<b>HBL57472IVA</b>	<b>HBL57473IVA</b>	—	—	—
	White	<b>HBL5747WA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.38" (35.05)	<b>HBL57472WA</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 1.38" (35.05)	— A: 4.54" (115.32) B: 6.45" (163.88) C: 1.38" (35.05)	—	—	—
<b>Deep</b>	Ivory	<b>HBL5744SIVA</b>	<b>HBL5744S2IVA</b>	<b>HBL5744S3IVA</b>	—	—	—
	White	<b>HBL5744SWA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 2.25" (57.00)	<b>HBL5744S2WA</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 2.25" (57.00)	— A: 4.54" (115.32) B: 6.45" (163.88) C: 2.25" (57.00)	—	—	—
<b>Extra Deep</b>	Ivory	<b>HBL5744IVA</b>	<b>HBL57442IVA</b>	<b>HBL57443IVA</b>	—	—	—
	White	<b>HBL5744WA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 2.75" (69.85)	<b>HBL57442WA</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 2.75" (69.85)	— A: 4.54" (115.32) B: 6.45" (163.88) C: 2.75" (69.85)	—	—	—
Base Trade Size KOs		2 - 1/2"	1 - 1/2", 3/4" Concentric 1 - Rectangular	3 - 1/2"	4 - 1/2"	5 - 1/2"	6 - 1/2"

Note: For datacom applications, box selection is dependent on depth of connectors (jacks). See pages R-45 and R-46 for datacom product selection, or visit our site at [www.hubbell-wiring.com](http://www.hubbell-wiring.com) for our Full Line Catalog and additional information.



Extension Boxes	Description	Color	1-Gang	1-Gang Deep	1-Gang Blank	2-Gang	3-Gang
	<b>Extension Boxes</b> To extend existing flush switch and receptacle boxes. Blank is used where it is desired to blank original outlet.	Ivory White	<b>HBL5751IVA</b> <b>HBL5751WA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.38" (35.05)	<b>HBL5751AIVA</b> <b>HBL5751AWA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.75" (44.45)	<b>HBL5760IVA</b> — A: 4.54" (115.32) B: 2.82" (71.63) C: 1.13" (28.70)	<b>HBL57512IVA</b> — A: 4.54" (115.32) B: 4.64" (117.86) C: 1.38" (35.05)	<b>HBL57513IVA</b> — A: 4.54" (115.32) B: 6.45" (163.88) C: 1.38" (35.05)

Dimensions in Inches (mm)

## HBL500, HBL700 and HBL750 Series

1-Gang Specialty Boxes	Description	Color	1-Gang	2-Gang Specialty Boxes	Description	Color	2-Gang
	<b>Low Profile Switch/Receptacle</b> Base has ½ in. trade size KOs.	Ivory White	<b>HBL5748SIVA</b> <b>HBL5748SWA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.13" (28.70)		<b>Alarm Device Box</b> Surface mounting of alarm devices and safety signals.	Ivory White Red	<b>HBL5752IVA</b> — <b>HBL5752RA</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 1.38" (35.05)
	<b>Combination Switch/Recept.</b> Connects surface runs of ½ in. trade size conduit, one raceway twistout each side and three raceway twistouts top and bottom.	Ivory White	<b>HBL5745IVA</b> <b>HBL5745WA</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.75" (44.45)		<b>Extra Deep Alarm Device Box</b> For surface mounting of alarm devices and safety signals. Cover is 2.75 in. (69.85) deep.	Ivory White Red	<b>HBL5753IVA</b> — <b>HBL5753RA</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 2.75" (69.85)
<b>Utility Box*</b> For use as a tee, cross, pull box, junction box or blank box. Base has ½ in. trade size KOs.	Ivory White	<b>HBL57242IVA</b> <b>HBL57242WA</b> A: 4.12" (104.78) B: 2.00" (50.80) C: 1.39" (35.31)	<b>Distribution Box</b> Twistouts permit three parallel raceway runs on each side. Cover takes devices with mounting screw centers of 2.75 in. (69.85), 3.5 in. (89.00), 4.06 in. (103.00) and canopy fixture not larger than 4.63 in. (117.00). Can be used with HBL5736IV (blank cover) to create junction box.	Ivory White	<b>HBL5735IVA</b> — A: 4.54" (115.32) B: 4.64" (117.86) C: 1.38" (35.05)		

Note: \*Use catalog number HBL5791 for connecting ½ in. EMT to HBL5745 and HBL57242 boxes.



Round Boxes	Description	Color	4.75 inches O.D.	5.50 inches O.D.	6.38 inches O.D.
	<b>Extension Box (Open Base)</b> For mounting on 3.25 in. (83.00) or 4 in. (102.00) round or square conduit boxes or other recessed outlets. Cover takes any device with mounting screw centers of 2.75 in. (69.85), 3.5 in. (89.00) and 4.06 in. (103.00).	Ivory White	<b>HBL5737IVA</b> <b>HBL5737WA</b> A: 1.02" (26.00) B: 4.75" (120.65)	<b>HBL5737AIVA</b> <b>HBL5737AWA</b> A: 1.02" (26.00) B: 5.50" (140.00)	<b>HBL5739AIVA</b> — A: 1.02" (26.00) B: 6.38" (162.01)
<b>Fixture Box (Solid Base)</b> To hang fixtures. Cover takes any device with mounting screw centers of 2.75 in. (69.85), 3.5 in. (89.00) and 4.06 in. (103.00). Both boxes can be used as a pull or junction box when used with HBL5736IV/W (blank cover).	Ivory White	<b>HBL5738IVA</b> <b>HBL5738WA</b> A: 1.02" (26.00) B: 4.75" (120.65)	<b>HBL5738AIVA</b> <b>HBL5738AWA</b> A: 1.02" (26.00) B: 5.50" (140.00)	<b>HBL5739IVA</b> <b>HBL5739WA</b> A: 1.02" (26.00) B: 6.38" (162.01)	

Specialty Round Boxes	Description	Color	Catalog Number	Round Covers	Description	Color	Catalog Number
	<b>Outlet Box</b> For devices with mounting screw centers of 1.47 in. (37.00), 1.63 in. (41.00), 1.69 in. (44.00) or 1.84 in. (46.00).	Ivory White	<b>HBL5733IVA</b> — A: 1.02" (26.00) B: 3.00" (76.00)		<b>Blank Cover</b> For use with HBL5733IVA. Has ½ in. trade size KO in center.	Ivory White	<b>HBL5731IV</b> — A: .24" (6.10) B: 2.40" (60.96)
	<b>Fanbox with Solid Base</b> Cover accepts fan bracket with mounting centers of 3.2 in. (81.00). Rated for fans and fixtures up to 50 lbs.	Ivory White	<b>HBL5738AFIVA</b> <b>HBL5738AFWA</b> A: .38" (9.75) B: 4.19" (106.30)		<b>Blank Cover</b> For use with HBL5735IVA, HBL5737IVA/WA, HBL5737AIVA/WA, HBL5739AIVA, HBL5738IVA/WA, HBL5738AIVA/WA and HBL5739IVA/WA. Has ½ in. trade size KO in center.	Ivory White	<b>HBL5736IV</b> <b>HBL5736W</b> A: .38" (9.75) B: 4.19" (106.30)
<b>Retrofit Box for Fire Alarm Detectors</b> For installing round alarm sensors.	Ivory White	<b>HBL5739AABIVA</b> <b>HBL5739AABWA</b> A: 1.62" (41.15) B: 6.50" (165.10)					

Dimensions in Inches (mm)

## HBL500, HBL700 and HBL750 Series


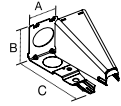

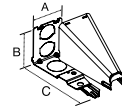

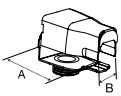

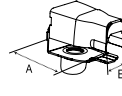

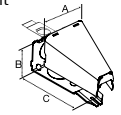

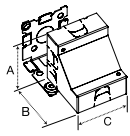
Elbows	Description	Color	HBL500 Series	HBL700 and HBL750 Series	Description	Color	HBL500, HBL700 & HBL750 Series
	<b>Internal Elbow</b> For inside surfaces at right angles.	Ivory White	<b>HBL517IV</b> <b>HBL517W</b> A: 3.33" (84.51) B: .58" (14.73) C: 3.33" (84.51)	<b>HBL717IVA</b> <b>HBL717WA</b> A: 3.33" (84.51) B: .90" (22.86) C: 3.33" (84.51)	<b>Internal Elbow Bend Radius</b> For inside surface at right angles requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory White	<b>HBL5717BRIVA</b> — A: 3.33" (84.51) B: .91" (23.11) C: 3.33" (84.51)
	<b>External Elbow</b> For outside surfaces at right angles.	Ivory White	<b>HBL518IV</b> <b>HBL518W</b> A: 2.59" (65.71) B: .58" (14.73) C: 2.59" (65.71)	<b>HBL718IVA</b> <b>HBL718WA</b> A: 2.59" (65.71) B: .90" (22.86) C: 2.59" (65.71)	<b>External Elbow Bend Radius</b> For outside surfaces at right angles requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory White	<b>HBL5718BRIVA</b> — A: 4.86" (123.43) B: .78" (19.80) C: 1.35" (34.28)
	<b>90° Flat Elbow</b> For right angle turns on same surface.	Ivory White	<b>HBL511IV</b> <b>HBL511W</b> A: 2.68" (68.13) B: .61" (15.50) C: 2.68" (68.13)	<b>HBL711IVA</b> <b>HBL711WA</b> A: 2.68" (68.13) B: .90" (22.86) C: 2.68" (68.13)	<b>Flat Elbow Bend Radius</b> For right angle turns requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory White	<b>HBL5711BRIVA</b> — A: 3.16" (80.34) B: .91" (23.11) C: 3.16" (80.34)
	<b>45° Flat Elbow</b> For diagonal 45° turns on same surface.	Ivory White	<b>HBL512IV</b> — A: 2.46" (62.61) B: .58" (14.73) C: 2.46" (62.61)	<b>HBL712IVA</b> — A: 2.70" (68.49) B: .91" (23.06) C: 2.70" (68.49)	<b>Internal Twisted Elbows</b> For 90° twist with 90° turn. For double turn at right angles from one to another. From a flat run on a side wall to a flat run on a ceiling, edge of door or window trim.	Ivory White  Ivory White	Right Elbow <b>HBL5711RHIVA</b> <b>HBL5711RHWA</b>  Left Elbow <b>HBL5711LHIVA</b> <b>HBL5711LHWA</b> A: 2.98" (75.72) B: .94" (23.75) C: 3.00" (76.20)


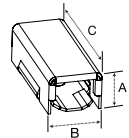

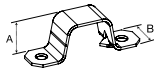

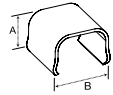

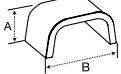
Tees	Description	Color	HBL500, HBL700 & HBL750 Series	Description	Color	HBL500, HBL700 & HBL750 Series
	<b>Tee Fitting</b> For branches at right angles.	Ivory White	<b>HBL5715IVA</b> <b>HBL5715WA</b> A: 3.06" (77.67) B: 1.14" (28.86) C: 3.03" (76.96)	<b>Tee Fitting Bend Radius</b> For branches at right angles requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory White	<b>HBL5715BRIVA</b> — A: 5.55" (140.88) B: .90" (22.86) C: 3.16" (80.34)

Fittings	Description	Color	HBL500, HBL700 & HBL750 Series	Description	Color	HBL500, HBL700 & HBL750 Series
	<b>Support Clip</b> For supporting lengths of HBL500, HBL700 or HBL750 Raceway.	Ivory White	<b>HBL5703IV</b> <b>HBL5703W</b> A: 2.51" (63.75)	<b>Flexible Section</b> For getting around offsets, side bends, twisted turns or curved surfaces.	Ivory White	<b>HBL5700FIVA</b> <b>HBL5700FWA</b> A: 18.00" (457.20)

Dimensions in Inches (mm)

## HBL500, HBL700 and HBL750 Series

End Fittings	Description	Color	HBL500, HBL700 & HBL750 Series	Description	Color	HBL500, HBL700 & HBL750 Series		
	<b>Entrance Connector</b> One ¼ in. KO for panel or conduit connection. One ¾ in. chase nipple and locknut furnished.	Ivory White	<b>HBL5786AIVA</b> <b>HBL5786AWA</b>	A: 1.50" (38.10) B: 1.84" (46.74) C: 3.89" (98.87)	<b>Adjustable Offset Connector</b> Two ½ in. KOs for panel or conduit connection. Eliminates offsetting raceway when connecting to surface type panel boxes. One ½ in. chase nipple and locknut furnished.	Ivory White	<b>HBL5786IVA</b> <b>HBL5786WA</b>	A: 1.50" (38.10) B: 1.84" (46.74) C: 3.89" (98.87)
	 				 			
	<b>Elbow Box Connector</b> For connecting raceway at right angles to conduit boxes, panel boxes, etc. having ½ in. nipple for trade size conduit.	Ivory White	<b>HBL5783IVA</b>	— A: 2.13" (54.05) B: 1.24" (31.50)	<b>Elbow Conduit Connector</b> For connecting raceway at right angles to ½ in. trade size conduit or armored cable connectors.	Ivory White	<b>HBL5784IVA</b>	— A: 2.13" (54.05) B: 1.24" (31.50)
 				 				
<b>Combination Connector</b> For connecting raceway without offsetting to any 3.25 in. (83.00) or 4 in. (102.00) outlet box mounted on the surface with a KO for ½ in. trade size conduit. Spring steel bushing eliminates need for conduit nipple and locknut.	Ivory White	<b>HBL5785AIVA</b> <b>HBL5785AWA</b>	A: 1.50" (38.10) B: 1.84" (46.74) C: 3.89" (98.87)	<b>Corner Box</b> For connecting HBL500, HBL700 or HBL750 Raceway from ceiling or corner. Each leg of base has ½ in. trade size KO.	Ivory White	<b>HBL5719IVA</b> <b>HBL5719WA</b>	A: 2.50" (63.50) B: 2.50" (63.50) C: 2.40" (60.96)	
 				 				

Fittings	Description	Color	HBL500 Series	HBL700 Series	HBL750 Series	
	<b>Transition Fitting</b> For transitioning from either Wiremold® V500 to Hubbell HBL500 Raceway or Wiremold® V700 to Hubbell HBL700 Raceway or Hubbell HBL750 Raceway.	Ivory White	<b>HBL500TFIV</b>	— A: .65" (16.51) B: .89" (22.61) C: 2.15" (54.61)	<b>HBL700TFIV</b>	— A: .78" (19.80) B: .89" (22.61) C: 2.15" (54.61)
	 					
	<b>Mounting Strap (one- or two-hole)</b> For mounting HBL500, HBL700 or HBL750 Raceway to surface. Convert to one-hole by breaking off at score.	Ivory White	<b>HBL504IV</b> <b>HBL504W</b>	A: .58" (14.73) B: .50" (12.70)	<b>HBL7004IV</b> <b>HBL7004W</b>	A: .70" (17.68) B: .50" (12.70)
	 					
<b>Connection Cover</b> To cover potential openings where two lengths of like raceways come together.	Ivory White	<b>HBL506IV</b> <b>HBL506W</b>	A: .60" (15.24) B: .80" (20.31)	<b>HBL7006IV</b> <b>HBL7006W</b>	A: .69" (17.40) B: .80" (20.31)	
 						
<b>Bushing</b> Protect wires from potential abrasion. Fits into end of HBL500, HBL700 or HBL750 Raceway.	Steel*	<b>HBL502B</b>	A: .35" (8.83) B: .70" (17.68)	<b>HBL7002B</b>	A: .49" (12.50) B: .78" (19.80)	
 						

Note: \*Zinc Plated Steel.

Wiremold® is a registered trademark of the Wiremold Company.

Dimensions in Inches (mm)



## HBL500, HBL700 and HBL750 Series

Fittings	Description	Material	HBL500, HBL700 & HBL750 Series		Description	Material	HBL500, HBL700 & HBL750 Series		
	<b>Box Connector</b> For connecting raceway to conduit boxes or panel boxes having KO for conduit. May also be used for conduit type fittings.	Steel*	<b>HBL5781</b>	<b>HBL5781A</b>	½" NPT (13) Male A: .75" (19.1) B: 1.24" (31.62)	¼" NPT (19) Male A: .75" (19.1) B: 1.24" (31.62)	Steel*	<b>HBL5791</b>	A: 1.20" (30.48) B: 1.09" (27.70)
	<b>Conduit Connector</b> For connecting raceway to conduit.	Steel*	<b>HBL5782C</b>	<b>HBL5782A</b>	½" NPT (13) Female A: .75" (19.1) B: 1.75" (44)	¾" (19.1) Female A: .75" (19.1) B: 1.75" (44)	Steel**	<b>HBL5701C</b>	A: 2.00" (50.80)
<b>Grounding Clamp</b> Provides grounding means for ½ in. trade size conduit using locknut.	Steel**	<b>HBL5709GC</b>		A: 1.04" (26.03) B: 1.18" (29.84)		Steel**	<b>HBL5709</b>	A: 2.00" (50.80)	
<b>Special Nipple</b> For hanging or connecting either .375 in. (9.5) or .5 in. (12.7) fixtures to Hubbell fittings with ½ in. trade size KOs.	Steel*	<b>HBL5780</b>		A: .63" (16.00)		Steel**	<b>HBL5790B</b>	A: 2.00" (50.80) B: .99" (25.25)	
<b>Armored Cable Connector</b> For connecting 14/2, 14/3, 12/2 and 12/3 "MC" and armored cable to Hubbell fittings. A short piece of HBL500, HBL700 or HBL750 Series Raceway must be used between this connector and the Hubbell fitting. Not for connection to ½ in. (12.7) flex conduit.						Steel**			

Note: \*Zinc Plated Steel.  
 \*\*Galvanized Steel.

Tools	Description	HBL500 Series	HBL700 Series	HBL750 Series	Description	Color	HBL500, HBL700 & HBL750 Series		
	<b>Cutter</b> Portable cutter for HBL500, HBL700 or HBL750 Series Raceways.	<b>HBL605CUT</b>	<b>HBL700CUT</b>	<b>HBL607CUT</b>	<b>Raceway Bender</b> Portable bender for HBL500, HBL700 or HBL750 Series Raceways.			<b>HBL600B</b>	
<b>Cutter Replacement Blade</b>	<b>HBL605K</b>	<b>HBL700K</b>	<b>HBL607K</b>	<b>Touch-Up Paint Pen</b>	Ivory White	<b>HBLIWEP</b> <b>HBLWWEP</b>			

Dimensions in Inches (mm)

# Metal Raceway

## Products at a Glance



### HBL2000A Raceway

- Cover is 0.040 in. (1.016) thick which allows up to 600V AC
- Higher capacity power applications (up to 26 #12 AWG wires)
- Available in cover only or base and cover options



### Innovative Box Design

- Hubbell Handi-Screw<sup>®</sup> eases installation by eliminating difficult to install long screws
- Rounded corners with no sharp edges
- One seam construction provides a “clean” look
- Box design allows standard wallplates to be mounted flush with virtually no perimeter profile exposed
- Full line of metal wallplates available  
See page R-45 for selection



### Bend Radius Fittings

- 1½ in. (38.10) bend radius
- Ideal for high speed data cables including Category 5, 5e, 6 and 6A applications



### Metal PlugTrak<sup>®</sup> Featuring Exclusive Receptacle Design

- Gray or ivory scratch resistant finish
- Multiple spacing configurations
- Hubbell designed and manufactured single receptacle
- Insulation displacement wiring provides superior wire retention
- Mates with HBL2000 Series Metal Raceway
- Available in 3 ft. (0.9m), 5 ft. (1.5m) and 6 ft. (1.8m) lengths
- Tamper-Resistant and USB versions available

## HBL2000 and HBL2000A Series

	Description	Color	Catalog Number		Description	Color	Catalog Number
<b>HBL2000 Series</b>	<b>Base and Cover (300V Rated)</b> Cover is 0.025 in. (0.635) thick up to 300V AC applications. Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL2000BCIV</b> <b>HBL2000BCGY</b> A: 60.00" (1,524.00) B: 1.31" (33.27) C: .83" (21.08)	<b>HBL2000A Series</b>	<b>Base and Cover (600V Rated)</b> Cover is 0.040 in. (1.016) thick up to 600V AC or higher capacity power applications (up to 26 #12AWG wires). Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL2000BCAIV</b> <b>HBL2000BCAGY</b> A: 60.00" (1,524.00) B: 1.31" (33.27) C: .83" (21.08)

	Description	Color	Catalog Number	Description	Color	Catalog Number
<b>Base and Cover</b>	<b>5 Ft. Base Only</b> For use with HBL2000 and HBL2000A raceway. Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL2000B5IV</b> <b>HBL2000B5GY</b> A: 60.00" (1,524.00) B: 1.31" (33.27)	<b>5 Ft. Cover Only (300V Rated)</b> Cover is 0.025 in. (0.635) thick. Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL2000CIV</b> <b>HBL2000CGY</b> A: 60.00" (1,524.00) B: 1.31" (33.27)
				<b>5 Ft. Cover Only (600V Rated)</b> Cover is 0.040 in. (1.016) thick up to 600V AC or higher capacity power applications (up to 26 #12AWG wires). Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL2000CAIV</b> <b>HBL2000CAGY</b> A: 60.00" (1,524.00) B: 1.31" (33.27)

	Description	Color	Catalog Number	Description	Color	Catalog Number
<b>Device Boxes</b>	<b>1-Gang Device Box</b> For deep switches and receptacles. Base has one ½ in. trade size KO and rectangular KO for extension to wall box.	Ivory Gray	<b>HBL2048IV</b> <b>HBL2048GY</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.75" (44.45)	<b>2-Gang Device Box</b> For deep switches and receptacles. Base has one ½ in. trade size KO and rectangular KO for extension to wall box.	Ivory Gray	<b>HBL20482IV</b> <b>HBL20482GY</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 1.75" (44.45)
<b>Elbows</b>	<b>Internal Corner Coupling</b> For surfaces at right angles, or for use as a straight-through fitting. Furnished with one fiber bushing.	Steel**	<b>HBL2017TC</b> A: 1.30" (32.98) B: 1.40" (35.56)	<b>Internal Elbow Bend Radius</b> For inside surface at right angles requiring a 1.5" (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory Gray	<b>HBL2017BRIV*</b> <b>HBL2017BRGY*</b> A: .85" (21.56) B: 3.47" (88.11)
	<b>External Elbow Coupling</b> For right angle turns around external corners.	Ivory Gray	<b>HBL2018CIV</b> <b>HBL2018CGY</b> A: 1.88" (47.75)	<b>External Elbow Bend Radius</b> For outside surfaces at right angles requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory Gray	<b>HBL2018BRIV*</b> <b>HBL2018BRGY*</b> A: 5.11" (129.72)
<b>90° Flat Elbow</b> For right angle turns on same surface.	Ivory Gray	<b>HBL2011IV*</b> <b>HBL2011GY*</b> A: 2.56" (65.02)	<b>Flat Elbow Bend Radius</b> For branches at right angles requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory Gray	<b>HBL2011BRIV*</b> <b>HBL2011BRGY*</b> A: 4.29" (109.03)	
<b>Tees</b>	<b>Tee Fitting</b> For branches at right angles. Couplings furnished.	Ivory Gray	<b>HBL2015IV*</b> <b>HBL2015GY*</b> A: 6.00" (152.40) B: 2.81" (71.44) C: 4.00" (101.60)	<b>Tee Fitting Bend Radius</b> For branches at right angles. Couplings furnished. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory Gray	<b>HBL2015BRIV*</b> <b>HBL2015BRGY*</b> A: 7.35" (186.78) B: 4.33" (110.00)

Note: \*HBL2001C couplings included.

\*\*Galvanized Steel.

Dimensions in Inches (mm)

## HBL2000 and HBL2000A Series

	Description	Color	Catalog Number	Description	Color	Catalog Number
End Fittings	<b>Transition Fitting</b> For transitioning from Wiremold® 2000 Raceway to Hubbell HBL2000 Raceway.	Ivory Gray	<b>HBL2000TFIV</b> <b>HBL2000TFGY</b> A: .82" (20.71) B: 1.38" (35.12) C: 2.04" (51.82)	<b>Entrance End Fitting</b> For connecting HBL2000 Raceway with one ½ in. conduit and armored cable connectors.	Ivory Gray	<b>HBL2010A2IV</b> <b>HBL2010A2GY</b> A: 3.01" (76.45) B: 1.30" (33.02) C: 1.49" (37.85)
	<b>Blank End Fitting</b> For closing open end of HBL2000 Raceway.	Ivory Gray	<b>HBL2010BIV</b> <b>HBL2010BGY</b> A: .78" (19.94)	<b>Large Capacity Entrance End Fitting</b> Offers larger capacity than HBL2010A2IV/GY. One ½ in. trade size KO on each side, ½ in. and ¾ in. concentric KOs on end and bottom.	Ivory Gray	<b>HBL2010A3IV</b> <b>HBL2010A3GY</b> A: 3.69" (93.80) B: 2.02" (51.18) C: 1.79" (45.36)
	<b>End Reducing Connector</b> For connecting HBL2000 Raceway to HBL500 Raceway through end of HBL2000 Raceway.	Ivory	<b>HBL2089EIV</b> A: .78" (19.81)	<b>Side Reducing Connector</b> For connecting HBL2000 Raceway to HBL500 Raceway through side of HBL2000 Raceway.	Ivory	<b>HBL2089IV*</b> A: 6.00" (152.40) B: 3.25" (82.55)
Fittings	<b>Cover Clip</b> Use to cover potential openings where two pieces of HBL2000 Raceway cover come together.	Ivory Gray	<b>HBL2006IV</b> <b>HBL2006GY</b> A: .75" (19.05)	<b>Flush Plate Adaptor</b> For feeding HBL2000 Raceway from an existing wall outlet. ½ in. threaded stud with steel locknut for grounding.	Ivory Gray	<b>HBL2051HIV</b> <b>HBL2051HGY</b> A: 4.50" (114.30)
	<b>Wire Clip</b> For holding conductors in place in the raceway base. For use with HBL2000CIV/GY cover only.	Steel**	<b>HBL2000WC</b> A: .44" (11.18) B: .24" (6.03) C: 1.24" (31.50)	<b>Wire Clip</b> For holding conductors in place in the raceway base. For use with HBL2000CAIV/GY cover only.	Steel**	<b>HBL2000WCA</b> A: .44" (11.18) B: .60" (15.17) C: 1.24" (31.50)
	<b>Coupling</b> For joining lengths of HBL2000 Raceway.	Steel**	<b>HBL2001C</b> A: 2.00" (50.80)	<b>Supporting Clip</b> For temporarily supporting lengths of HBL2000 Raceway at any point. Mount with #6 flat head fastener. Has set screw for locking to raceway. Raceway must be screwed to the wall for secure fastening.	Steel**	<b>HBL2003SC</b> A: 2.00" (50.80)
	<b>Ground Clamp</b> For connection of equipment grounding conductor to provide an additional ground to raceway. Galvanized steel.	Steel**	<b>HBL2009GC</b> A: 1.00" (25.64)			

Note: \*HBL2001C couplings included.  
 \*\*Galvanized Steel.

	Description	Catalog Number	Description	Color	Catalog Number
Tools	<b>Cutter</b> Portable cutter for HBL2000 Series Raceway. (Not for use with HBL2000A series).	<b>HBL620C</b>	<b>Touch-Up Paint Pen</b>	Ivory Gray	<b>HBLIWEP</b> <b>HBLGWEP</b>
	<b>Cutter Replacement Blade Set</b>	<b>HBL620BCK</b>			

Wiremold® is a registered trademark of the Wiremold Company.

Dimensions in Inches (mm)

## Metal PlugTrak® Series

Available in Standard, Isolated Ground (IG), Tamper-Resistant (TR) and USB (U) versions.



	Amp Circuits	Single Recept.	USB Ports	Receptacle Spacing (in.)	Ivory	Gray
3 Foot	15 Single	6	—	6	<b>HBL20GB306IV</b>	<b>HBL20GB306GY</b>
	15 IG/Single	6	—	6	<b>HBL20IG306IV</b>	<b>HBL20IG306GY</b>
	15 TR/Single	6	—	6	<b>HBL20GB306IVTR</b>	<b>HBL20GB306GYTR</b>
	15 USB/Single	2	2	12	<b>HBL20GB312UIV</b>	—
	20 Single	6	—	6	<b>HBL24GB306IV</b>	<b>HBL24GB306GY</b>
	20 TR/Single	6	—	6	<b>HBL24GB306IVTR</b>	<b>HBL24GB306GYTR</b>
5 Foot	15 Single	10	—	6	<b>HBL20GB506IV</b>	<b>HBL20GB506GY</b>
	15 Single	5	—	12	<b>HBL20GB512IV</b>	<b>HBL20GB512GY</b>
	15 Two	5	—	12	<b>HBL20GBA512IV</b>	<b>HBL20GBA512GY</b>
	15 IG/Single	5	—	12	<b>HBL20IG512IV</b>	<b>HBL20IG512GY</b>
	15 TR/Single	5	—	12	<b>HBL20GB512IVTR</b>	<b>HBL20GB512GYTR</b>
	20 Single	10	—	6	<b>HBL24GB506IV</b>	<b>HBL24GB506GY</b>
	20 Single	5	—	12	<b>HBL24GB512IV</b>	<b>HBL24GB512GY</b>
	20 Two	5	—	12	<b>HBL24GBA512IV</b>	<b>HBL24GBA512GY</b>
6 Foot	15 Single	12	—	6	<b>HBL20GB606IV</b>	<b>HBL20GB606GY</b>
	15 Single	8	—	9	<b>HBL20GB609IV</b>	<b>HBL20GB609GY</b>
	15 Single	6	—	12	<b>HBL20GB612IV</b>	<b>HBL20GB612GY</b>
	15 Single	4	—	18	<b>HBL20GB618IV</b>	<b>HBL20GB618GY</b>
	15 Two	8	—	9	<b>HBL20GBA609IV</b>	<b>HBL20GBA609GY</b>
	15 Two	6	—	12	<b>HBL20GBA612IV</b>	<b>HBL20GBA612GY</b>
	15 Two	4	—	18	<b>HBL20GBA618IV</b>	<b>HBL20GBA618GY</b>
	15 IG/Single	12	—	6	<b>HBL20IG606IV</b>	<b>HBL20IG606GY</b>
	15 USB/Single	4	4	12	<b>HBL20GB612UIV</b>	—
	20 Single	12	—	6	<b>HBL24GB606IV</b>	<b>HBL24GB606GY</b>
	20 Single	6	—	12	<b>HBL24GB612IV</b>	<b>HBL24GB612GY</b>
	20 Single	4	—	18	<b>HBL24GB618IV</b>	<b>HBL24GB618GY</b>
	20 Two	6	—	12	<b>HBL24GBA612IV</b>	<b>HBL24GBA612GY</b>
	20 Two	4	—	18	<b>HBL24GBA618IV</b>	<b>HBL24GBA618GY</b>

	Description	Color	Catalog Number
Boxes	1-Gang Device Box	Ivory Gray	<b>HBL2048IV</b> <b>HBL2048GY</b>
	2-Gang Device Box	Ivory Gray	<b>HBL20482IV</b> <b>HBL20482GY</b>
Elbows and Tees	External Elbow	Ivory Gray	<b>HBL2018CIV</b> <b>HBL2018CGY</b>
	Flat Elbow	Ivory Gray	<b>HBL2011IV</b> <b>HBL2011GY</b>
	Tee	Ivory Gray	<b>HBL2015IV</b> <b>HBL2015GY</b>
End Fittings	Entrance End Fitting	Ivory Gray	<b>HBL2010A2IV</b> <b>HBL2010A2GY</b>
	Large Entrance End Fitting	Ivory Gray	<b>HBL2010A3IV</b> <b>HBL2010A3GY</b>
	Blank End Fitting	Ivory Gray	<b>HBL2010BIV</b> <b>HBL2010BGY</b>
	Cover Clip	Ivory Gray	<b>HBL2006IV</b> <b>HBL2006GY</b>
Fittings	Supporting Clip	Steel**	<b>HBL2003SC*</b>
	Coupling	Steel**	<b>HBL2001C</b>
	Internal Corner Coupling	Steel**	<b>HBL2017TC</b>



Portable	Amp Circuits	Length (in.)	Cord Length (ft.)	Single Recept.	USB Ports	Ivory	Gray
	15 Single	40	6	6	—	<b>HBL20C215IV</b>	<b>HBL20C215GY</b>
	15 USB/Single	40	6	4	2	<b>HBL20C215UIV</b>	—
	15 Single	64	6	10	—	<b>HBL20C315IV</b>	<b>HBL20C315GY</b>

Note: IG = Isolated Ground, TR = Tamper-Resistant and U = USB.  
Hubbell Metal PlugTrak is supplied with two HBL2010BIV/GY blank end fittings and one HBL2001C coupling. Catalog number suffix "IV" for ivory finish and "GY" for gray finish. Outlets match raceway color. "IG" Isolated ground receptacles have orange triangles. Portable PlugTrak includes 15A circuit breaker. Please contact factory for Black or White Metal PlugTrak.

Note: \*Support clip HBL2003SC for supporting Portable Metal PlugTrak only.  
\*\*Galvanized Steel.  
See pages R-10 and R-11 for additional information.

Dimensions in Inches (mm)



# Metal Raceway

## Products at a Glance



### HBL2400 and HBL2400D Raceway

- Increased capacity, over HBL2000 Series Raceway
- Divided base allows for dual services within one raceway profile



### Innovative Box Design

- Hubbell Handy-Screw<sup>®</sup> eases installation by eliminating difficult to install long screws
- Rounded corners with no sharp edges
- One seam construction provides a “clean” look
- Box design allows standard wallplates to be mounted flush with virtually no perimeter profile exposed
- Full line of metal wallplates available  
See page R-45 for selection

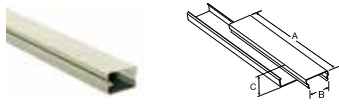




### Bend Radius Fittings

- 1½ in. (38.10) bend radius
- Ideal for high speed data cables including Category 5, 5e, 6 and 6A applications

## HBL2400 and HBL2400D Series



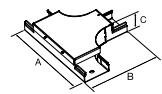
<b>HBL2400 Series</b>	Description	Color	Catalog Number
	<b>Undivided Base and Cover</b> Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory	<b>HBL2400BCIV</b> A: 60.00" (1,524.00) B: 1.91" (48.51) C: .88" (22.40)



<b>HBL2400 Series Base and Cover</b>	<b>10 Ft. Base, Undivided</b> Packed 50 ft. (15m) per carton, 10 ft. (3m) lengths.	Ivory	<b>HBL2400B10IV</b> A: 120.00" (3,048.00) B: 1.91" (48.51)	<b>5 Ft. Cover</b> Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory	<b>HBL2400CIV</b> A: 60.00" (1,524.00) B: 1.89" (48.00)
	<b>5 Ft. Base, Undivided</b> Packed 50 ft. (15m) per carton, 5 ft. (1.5m) lengths.	Ivory	<b>HBL2400BIV</b> A: 60.00" (1,524.00) B: 1.91" (48.51)			
<b>HBL2400D Series Base and Cover</b>	<b>10 Ft. Base, Divided</b> Packed 50 ft. (15m) per carton, 10 ft. (3m) lengths.	Ivory	<b>HBL2400BDIV</b> A: 120.00" (3,048.00) B: 1.91" (48.51)			



Description	Color	Type	1-Gang		2-Gang	
			Standard	Extra Deep	Standard	Extra Deep
<b>Device Box</b> For deep switches and receptacles. Base has one ½ in. trade size KO and rectangular KO for extension to wall box.	Ivory	Divided	—	<b>HBL2444DIV</b> A: 4.54" (115.32)	<b>HBL2444D2IV</b> A: 4.54" (115.32)	<b>HBL2444D2AIV</b> A: 4.54" (115.32)
	Ivory	Undivided	<b>HBL2448IV</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 1.75" (44.45)	<b>HBL2444IV</b> A: 4.54" (115.32) B: 2.82" (71.63) C: 2.75" (69.85)	<b>HBL24482IV</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 1.75" (44.45)	<b>HBL24442IV</b> A: 4.54" (115.32) B: 4.64" (117.86) C: 2.75" (69.85)

<b>Elbows and Tees</b>	<b>Internal Elbow Bend Radius</b> For inside surfaces at right angles, requiring a 1.5 in. (38.10) bend radius. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory	Divided	<b>HBL2417DFOIV*</b> <b>HBL2417IV**</b> A: 1.91" (48.51) B: 3.60" (91.30)		<b>External Elbow Bend Radius</b> For right angle turns around external corners. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory	Divided	<b>HBL2418DFOIV*</b> <b>HBL2418IV**</b> A: 1.91" (48.51) B: 3.83" (97.28)	
	<b>90° Flat Elbow Bend Radius</b> For right angle turns on same surface. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory	Divided	<b>HBL2411DFOIV*</b> <b>HBL2411IV**</b> A: 6.00" (152.40) B: 5.00" (127.00) C: .90" (22.86)			<b>Tee Fitting Bend Radius</b> For branches at right angles. Suitable for Category 5, 5e, 6 and 6A applications.	Ivory	Divided	<b>HBL2415DFOIV*</b> <b>HBL2415IV**</b> A: 7.30" (185.42) B: 4.99" (126.75) C: 1.44" (36.58)
		Ivory	Undivided					Ivory	Undivided	

Note: \*HBL2401DC couplings included.

\*\*HBL2401C couplings included.

Dimensions in Inches (mm)

## HBL2400 and HBL2400D Series

	Description	Color	Type	Catalog Number	Description	Color	Type	Catalog Number
End Fittings	<b>Entrance End Fitting</b> End fitting with ½ in. and ¾ in. concentric trade size KOs on end and bottom. Additional ½ in. trade size KOs on sides.	Ivory Ivory	Divided Undivided	— <b>HBL2410CIV</b> A: 3.69" (93.8) B: 2.02" (51.2) C: 1.79" (45.4)	<b>Entrance End Fitting Bend Radius</b> Divided, bend radius end fitting to feed HBL2400 and HBL2400D Series Raceway. Includes 1 in. and ¾ in. trade size KOs on back and end. Removable divider and bend radius inserts included.	Ivory Ivory	Divided Undivided	<b>HBL2410DFOIV</b> — A: 7.08" (179.83) B: 4.72" (119.89) C: 2.76" (70.10)
	<b>Entrance End Fitting</b> For connecting HBL2400 Raceway with one ½ in. conduit and armored cable connectors.	Ivory Ivory	Divided Undivided	— <b>HBL2410AIV</b> A: 1.16" (29.50) B: 1.89" (49.00) C: 1.66" (42.20)	<b>Entrance End Fitting Full Capacity</b> Full capacity entrance end to feed HBL2400 Series Raceway. Includes three 1 in. and ¾ in. concentric trade size KOs.	Ivory Ivory	Divided Undivided	— <b>HBL2410FCIV</b> A: 3.04" (77.23) B: 2.61" (66.29) C: 2.23" (56.64)
	<b>Transition Fitting</b> For transitioning from Wiremold® 2400D/2400 Raceway to Hubbell HBL2400/HBL2400D Raceway.	Ivory Ivory	Divided Undivided	<b>HBL2400DTFIV</b> <b>HBL2400TFIV</b> A: 2.02" (51.31) B: 1.06" (26.92)	<b>Blank End Fitting</b> For closing open end of HBL2400 Raceway.	Ivory Ivory	Divided Undivided	<b>HBL2410BDIV</b> <b>HBL2410BIV</b> A: 1.17" (29.72) B: 1.96" (49.78) C: .84" (21.34)

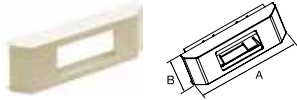
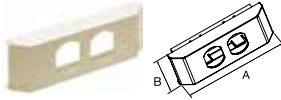
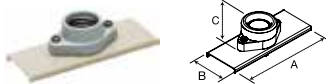
	Description	Color	Catalog Number	Description	Color	Catalog Number
Fittings	<b>End Reducing Connector</b> For connecting HBL2400 Raceway to HBL2000 Raceway through end of HBL2400 Raceway.	Ivory	<b>HBL2420REDIV*</b> A: 3.81" (96.77) B: 2.07" (52.58) C: .90" (22.86)	<b>End Reducing Connector</b> For connecting HBL4750 Raceway to HBL2400 Raceway through end of HBL4750 Raceway. Includes HBL2401DC coupling (HBL4751AC not included).	Ivory	<b>HBL4724REDIV</b> A: 4.75" (120.65) B: 3.00" (76.20) C: 1.55" (39.37)
	<b>Side Reducing Connector</b> For connecting HBL2400 Raceway to HBL500 Raceway through side of HBL2400 Raceway.	Ivory	<b>HBL2489IV*</b> A: 3.75" (95.25) B: 1.91" (48.51) C: .82" (20.83)	<b>Bridge Fitting</b> For allowing HBL2400 Series Raceway to bridge over existing installations of HBL2400, HBL750 and HBL500 Series Raceways.	Ivory	<b>HBL2475DBRIV</b> A: 5.60" (142.24) B: 2.92" (74.17) C: 1.63" (41.40)
	<b>Cover Clip</b> Use to cover potential openings where two pieces of HBL2400 Raceway cover come together.	Ivory	<b>HBL2406IV</b> A: 1.50" (38.10)	<b>Flush Plate Adaptor</b> For feeding HBL2400 Raceway from an existing wall outlet box ½ in. trade size male nipple. Provided with locknut for grounding.	Ivory	<b>HBL2451HIV*</b> A: 4.50" (114.30)
	<b>Wire Clip (Plated)</b> For holding conductors in place.	Steel**	<b>HBL2400WC</b> A: 1.69" (42.93) B: 1.00" (25.40) C: .79" (20.00)	<b>Ground Clamp (Plated)</b> For connection of equipment grounding conductor to provide an additional ground to raceway.	Steel**	<b>HBL2409GC</b> A: .41" (10.41)
	<b>Coupling (Plated), Divided</b> For joining lengths of HBL2400 Raceway.	Steel**	<b>HBL2401DC</b> A: 2.00" (50.80) B: 1.86" (47.24)	<b>Coupling (Plated), Undivided</b> For joining lengths of HBL2400 Raceway.	Steel**	<b>HBL2401C</b> A: 2.00" (50.80) B: 1.86" (47.24)

Note: \*Only used on HBL2400 Series Undivided Raceway.  
\*\*Galvanized Steel.




Wiremold® is a registered trademark of the Wiremold Company.

Dimensions in Inches (mm)

## HBL2400 and HBL2400D Series

Devices and Frames	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Receptacle Bracket and Frame</b> For use with power devices with maximum width of 1.35 in. (84.3) and in low voltage applications with ISFxxAL frames found on page R-45.</p> 	Ivory	<b>HBL24106RRK*</b> A: 6.00" (152.40) B: 2.02" (51.31)	<p><b>Duplex Bracket and Frame</b> For use with power devices with maximum width of 1.35 in. (84.3) and in low voltage applications with BR106AL and Q106AL frames found on page R-45.</p> 	Ivory	<b>HBL24106DRK*</b> A: 6.00" (152.40) B: 2.02" (51.31)
<p><b>Lamp Holder</b> Medium base lamp holder 660W 250V ceramic. Ivory (Cover) White Ceramic (Lamp Holder).</p> 	Ivory	<b>HBL2426IV*</b> A: 5.00" (127.00) B: 1.89" (48.01) C: 1.03" (26.16)				

Note: \*Only used on HBL2400 Series Undivided Raceway.

Tools	Description	Catalog Number	Description	Color	Catalog Number
	<p><b>Cutter</b> Portable cutter for HBL2400/ HBL2400D Series Raceway.</p> 		<b>HBL624CUT</b>	<p><b>Touch-Up Paint Pen</b></p> 	Ivory
<p><b>Cutter Replacement Blade Set</b></p> 		<b>HBL624BCK</b>			

Dimensions in Inches (mm)

# Metal Raceway

## Products at a Glance



### HBL3000 Series Extensive Line

- Full line of large, single channel, two piece metal raceway
- Easily mounts on walls or bench tops
- Large single channel base for power or datacom cables
- UL Listed and CSA Certified
- Available in ivory or gray powder coat finish



### Innovative Box Design

- Hubbell Handi-Screw® eases installation by eliminating difficult to install long screws
- Rounded corners with no sharp edges
- One seam construction provides a “clean” look
- Large capacity allows for the installation of 30, 50 or 60A receptacles
- Utility box can be used as a tee, cross, junction box or as a branch circuit extension



### Transition Fittings

- UL Classified to transition from Wiremold® 3000 Series Metal Raceway to Hubbell HBL3000 Series Metal Raceway
- Reducer fitting provides transition from Hubbell HBL3000 Series to Hubbell HBL2000 Series Raceway



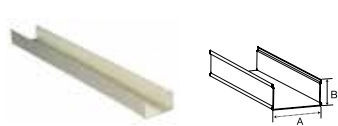

### Plates and Covers

- Wide range of covers and cover plates accommodate the most demanding applications
- Removable cover and cover plates provide easy access to wiring compartment
- Precut covers and plates provide quick installation and are available in common configurations

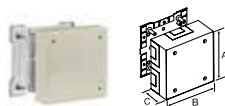

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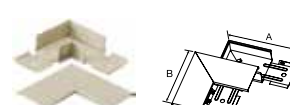



## HBL3000 Series

HBL3000 Series	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Single Channel Base</b> Packed 100 ft. (30.5m) per carton, 10 ft. (3m) lengths.	Ivory Gray	<b>HBL3000BIV</b> <b>HBL3000BGY</b> A: 2.73" (69.34) B: 1.47" (37.34)		<b>5 Ft. Cover</b> Packed 100 ft. (30.5m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL3000CEIV</b> <b>HBL3000CEGY</b> A: 60.00" (1,524.00) B: 2.75" (69.85)
	Assembled cover and base dimensions. W: 2.75" (69.85) H: 1.53" (38.86)				<b>19.5 In. Precut Cover*</b> For mounting devices on 24 in. (610.00) centers.	Ivory Gray	<b>HBL3000C195IV</b> <b>HBL3000C195GY</b> A: 19.50" (495.30) B: 2.75" (69.85)
					<b>7.5 In. Precut Cover*</b> For mounting devices on 12 in. (305.00) centers.	Ivory Gray	<b>HBL3000C075IV</b> <b>HBL3000C075GY</b> A: 7.50" (190.50) B: 2.75" (69.85)
							

Note: \*Packed 10 pieces per carton. Device centers vary based on cover selection. Consult factory for details.

Boxes	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Utility Box</b> Cover has twistouts on all sides, allows for box to be used as tee, cross, junction box or for branch circuit extensions.	Ivory Gray	<b>HBL3028IV</b> <b>HBL3028GY</b> A: 6.41" (162.89) B: 6.41" (162.89) C: 1.90" (48.26)		<b>2-Gang Extra Deep Switch                      and Receptacle Box</b> For standard 30, 50 and 60A straight blade receptacles.	Ivory Gray
						

Elbows and Tees	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Internal Corner Coupling</b> For surfaces at right angles or for use as a straight-through fitting.	Ivory Gray	<b>HBL3017TCEIV</b> <b>HBL3017TCEGY</b> A: 2.61" (66.29)		<b>External Corner Coupling</b> For right angle turns around external corners.	Ivory Gray	<b>HBL3018AEIV</b> <b>HBL3018AEGY</b> A: 4.00" (101.60)
	<b>90° Flat Elbow</b> For right angle turns on same surface.	Ivory Gray	<b>HBL3011EIV</b> <b>HBL3011EGY</b> A: 6.40" (162.40) B: 6.00" (152.40)		<b>Tee Fitting</b> For branches at right angles. Couplings furnished.	Ivory Gray	<b>HBL3015EIV</b> <b>HBL3015EGY</b> A: 10.31" (261.94) B: 8.00" (203.20)
							

Dimensions in Inches (mm)










## HBL3000 Series

End Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Entrance End Fitting</b> For connecting HBL3000 Raceway with ½ in. conduit and armored cable connectors.	Ivory Gray	<b>HBL3010AEIV</b> <b>HBL3010AEGY</b> A: 2.75" (69.85) B: 3.42" (86.87)	<b>Entrance End Fitting</b> For connecting HBL3000 Raceway with rigid or flexible conduit. Concentric ½ in., ¾ in. and 1 in. trade size KOs on end and each side.	Ivory Gray	<b>HBL3010CIV</b> <b>HBL3010CGY</b> A: 2.75" (69.85) B: 3.25" (82.55) C: 2.00" (50.80)
	<b>Blank End Fitting</b> For closing open end of HBL3000 Raceway. Has concentric ½ in. and ¾ in. trade size KOs.	Ivory Gray	<b>HBL3010BIV</b> <b>HBL3010BGY</b> A: 2.71" (68.92) B: 1.79" (45.36) C: 1.41" (35.84)	<b>Panel Connector</b> To connect HBL3000 Raceway with surface type boxes.	Ivory Gray	<b>HBL3086IV</b> <b>HBL3086GY</b> A: 4.60" (116.71) B: 1.19" (30.16) C: 3.00" (76.20) D: 1.94" (49.40) E: 3.76" (95.50)
	<b>Conduit Connector</b> To connect end of HBL3000 Raceway to 1½ in. trade size conduit or connector.	Gray	<b>HBL3082GY</b> A: 2.91" (74.00) B: 2.75" (69.85)			


Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Transition Fitting</b> For transitioning from Wiremold® 3000 Raceway to Hubbell HBL3000 Raceway.	Ivory Gray	<b>HBL3000TFIV</b> <b>HBL3000TFGY</b> A: 2.85" (72.39) B: 2.15" (54.61) C: 1.50" (38.04)	<b>Take-Off Connector (Reducer)</b> Transition Hubbell HBL3000 Raceway to Hubbell HBL2000 Raceway.	Ivory Gray	<b>HBL3200REDIV</b> <b>HBL3200REDGY</b> A: 2.75" (69.85) B: 2.25" (57.15)
	<b>Wall Box Connector</b> For connecting to HBL3000 Raceway from a flush mounted wall box.	Ivory Gray	<b>HBL3014CIV</b> <b>HBL3014CGY</b> A: 8.00" (203.20) B: 3.28" (83.31)	<b>Tap-Off Fitting</b> Has concentric ½ in. and ¾ in. trade size KOs and twistout for communication cables.	Ivory Gray	<b>HBL3046H2IV</b> <b>HBL3046H2GY</b> A: 4.75" (120.65)
	<b>Cover Clip</b> Use to cover potential openings where two pieces of HBL3000 Raceway come together.	Ivory Gray	<b>HBL3006EIV</b> <b>HBL3006EGY</b> A: 2.78" (70.60) B: .75" (19.05)	<b>Supporting Clip</b> For supporting lengths of HBL3000 Raceway at any point. Mount with #8 flat head fastener. Has set screw for locking to raceway.	Ivory Gray	<b>HBL3003IV</b> <b>HBL3003GY</b> A: 2.81" (71.33) B: .75" (19.05)
	<b>Wire Clip (Plated)</b> For holding conductors in place.	Steel*	<b>HBL3000WCGY</b> A: 1.00" (25.40)	<b>Rigid Inside Coupling (Plated)</b> For joining lengths of HBL3000 Raceway when added rigidity is required, i.e. raceway suspended overhead.	Steel*	<b>HBL3001AGY</b> A: 6.00" (152.40)
	<b>Coupling (Plated)</b> For joining lengths of HBL3000 Raceway.	Steel*	<b>HBL3001GY</b> A: 2.20" (55.75)			

Note: \*Galvanized Steel.

## HBL3000 Series

Device Bracket and Cover Plates	Description	Color	Catalog Number	Description	Color	Catalog Number		
	<b>Switch Cover</b> For installing single pole, two pole, three way or four way switches. Includes HBL3007CGY device bracket.	Ivory Gray	<b>HBL3040CEIV</b> <b>HBL3040CEGY</b> A: 4.50" (114.30)		<b>Rectangular Style Line® Recept. Cover</b> For installing 15A and 20A rectangular duplex receptacles, GFCI, surge devices, and rectangular communication frames shown on page R-45. Includes HBL3007CGY device bracket.	Ivory Gray	<b>HBL3048RIV</b> <b>HBL3048RGY</b> A: 4.50" (114.30)	
	<b>Duplex Receptacle Cover</b> For installing 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes HBL3007CGY device bracket.	Ivory Gray	<b>HBL3043BEIV</b> <b>HBL3043BEGY</b> A: 4.50" (114.30)		<b>Duplex Receptacle Cover</b> For high strain/vibration. For installing 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes device brackets.	Ivory Gray	<b>HBL3046BEIV</b> <b>HBL3046BEGY</b> A: 5.38" (136.65)	
	<b>Single Receptacle Cover</b> For installing straight blade and locking single receptacles with face diameters of 1.38 in. to 1.39 in. (35.05 to 35.31). Includes HBL3007CGY device bracket.	Ivory Gray	<b>HBL3027AEIV</b> <b>HBL3027AEGY</b> A: 4.50" (114.30)		<b>Single Receptacle Cover</b> For installing straight blade and locking single receptacles with face diameters of 1.56 in. to 1.57 in. (39.62 to 39.88). Includes HBL3007CGY device bracket.	Ivory Gray	<b>HBL3033JEIV</b> <b>HBL3033JEGY</b> A: 4.50" (114.30)	
	<b>Blank Cover</b> Has one ½ in. trade size KO in center. Includes HBL3007CGY bracket.	Ivory Gray	<b>HBL3036HEIV</b> <b>HBL3036HEGY</b> A: 4.50" (114.30)		<b>Extension Cover</b> Cover accepts 3-wire 30A and 50A devices and standard commercially available flush plates. Includes HBL3007CGY device bracket. See page R-45 for plate options.	Ivory Gray	<b>HBL3051LEIV</b> <b>HBL3051LEGY</b> A: 4.50" (114.30)	
	<b>Device Bracket</b> For mounting standard devices in HBL3000 Raceway. Use with commercially available flush plate (not furnished).	Steel*	<b>HBL3007CGY</b> A: 4.50" (114.30) B: 3.28" (83.31)					

Note: \*Galvanized Steel.

Tools	Description	Color	Catalog Number	Description	Catalog Number	
	<b>Base Cutter</b> Portable cutter for HBL3000 Raceway Base.			<b>HBL630B</b>	<b>Cover Cutter</b> Portable cutter for HBL3000 Raceway Cover.	<b>HBL630C</b>
	<b>Replacement Blade Cutter and Die Set</b> Base blade set.			<b>HBL630BDK</b>	<b>Replacement Blade Cutter and Die Set</b> Cover blade set.	<b>HBL630CDK</b>
<b>Touch-Up Paint Per</b>	Ivory Gray	<b>HBLIWEP</b> <b>HBLGWEP</b>				

Dimensions in Inches (mm)

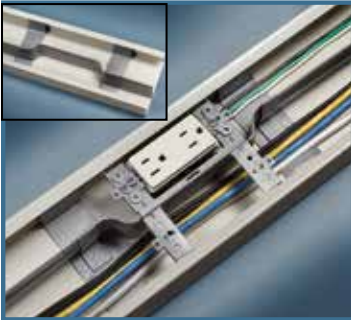
# Metal Raceway

## Products at a Glance



### HBL4750 Device Bracket

- HBL4750 Device Bracket Plate provides excellent solution for power, data, voice, audio and video applications
- For use with Hubbell KP plates and Hubbell iSTATION modules and bezels
- Provides flush finish with overlap feature to hide potential miscuts



### Application Capacity and Flexibility

- Flexible channel divider provides industry leading data capacity in the same profile with a 2/3 datacom split
- By-Pass Divider opening accepts GFCI or surge devices to be mounted in 70/30 divided channel
- Greater capacity offers more room for moves, adds and changes
- 50/50 split available by utilizing standard divider and divider clips
- Raceway channel can also be used with no divider for maximum cable fill in single service applications



### End Reducing Connector

- Connects HBL4750 Raceway to HBL2400 Raceway through the end of HBL4750 Raceway
- Used to connect two different sized raceway profiles



### Extensive Line

- 1¼ in. (31.75mm) bend radius fittings meet TIA/EIA requirements
- Integral bend radius offers a fixed solution that does not have to be installed as an option
- Large cross sectional area provides for maximum cable capacity throughout entire system
- Available external, internal, flat, tee and entrance end fittings
- UL Listed, CSA Certified
- Available in ivory or gray powder coat finish

## HBL4750 Series

HBL4750 Series	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Single Channel Base</b> Packed 50 ft. (15.24m) per carton, 10 ft. (3m) lengths.  Assembled cover and base dimensions. W: 4.75" (120.65) H: 1.75" (44.45)	Ivory	<b>HBL4750B10IV</b>	<b>5 Ft. Cover</b> Packed 50 ft. (15.24m) per carton, 5 ft. (1.5m) lengths.  <b>31 In. Precut Cover*</b> For 36 in. (915.00) centers with HBL4747 and HBL4750 Plates.  <b>19 In. Precut Cover*</b> For 24 in. (610.00) centers with HBL4747 and HBL4750 Plates.  <b>13 In. Precut Cover*</b> For 18 in. (457.00) centers with HBL4747 and HBL4750 Plates.  <b>7 In. Precut Cover*</b> For 12 in. (305.00) centers with HBL4747 and HBL4750 Plates.	Ivory	<b>HBL4750CIV</b>
		Gray	<b>HBL4750B10GY</b>		Gray	<b>HBL4750CGY</b>
		A: 120.00" (3048.00) B: 4.75" (120.65) C: 1.62" (41.20)			Ivory	<b>HBL4750C315IV</b>
					Gray	<b>HBL4750C315GY</b>
					Ivory	<b>HBL4750C195IV</b>
		Gray	<b>HBL4750C195GY</b>			
		Ivory	<b>HBL4750C135IV</b>			
		Gray	<b>HBL4750C135GY</b>			
		Ivory	<b>HBL4750C075IV</b>			
		Gray	<b>HBL4750C075GY</b>			

Note: \*Packed 10 pieces per carton. Device centers vary based on cover selection. Consult factory for details.

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Divider</b> Divides HBL4750 Raceway into two channels. Packed 50 ft. (15.24m) per carton, 5 ft. (1.5m) lengths. HBL4751DA Divider Clips are required to hold divider in place.	Painted Steel	<b>HBL4750DGY</b>	A: 60.00" (1,524.0) B: 1.51" (38.46)	<b>By-Pass Divider</b> Divides HBL4750 Raceway into two channels with a 70/30 split. Allows for a larger power or datacom wire fill. HBL4751DA Divider Clips are required to hold divider in place.	Painted Steel	<b>HBL4750BP</b>
	<b>Divider Clip</b> Required for holding HBL4750DGY in place. Use one every 2.5 ft. (.762m).	Steel**	<b>HBL4751DA</b>	A: 4.64" (117.77) B: 1.46" (37.07)	<b>Wire Clip (Plated)</b> For holding conductors in place.	Steel**	<b>HBL4750WCGY</b>
<b>Internal Corner Coupling (Plated)</b> Concealed fitting for making an internal corner while continuing original run in a straight line.	Steel**	<b>HBL4717TCAGY</b>	A: 4.59" (116.59) B: 2.71" (68.73) C: 1.47" (37.34)	<b>Coupling (Plated)</b> For joining lengths of HBL4750 Raceway. Sold in pairs.	Steel**	<b>HBL4751AC</b>	

Note: \*\*Galvanized Steel.

Dimensions in Inches (mm)



## HBL4750 Series

Elbows	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Internal Elbow, Divided</b> For inside surfaces at right angles. Full capacity 1¼ in. bend radius internal elbow.	Ivory Gray	<b>HBL4717DFOIV*</b> <b>HBL4717DFOGY*</b> A: 4.74" (120.47) B: 4.75" (120.65)	<b>Internal Elbow, Undivided</b> For inside surfaces at right angles.	Ivory Gray	<b>HBL4717IV*</b> <b>HBL4717GY*</b> A: 4.74" (120.47) B: 4.75" (120.65)
	<b>External Elbow, Divided</b> For right angle turns around external corners. Full capacity 1¼ in. bend radius external elbow.	Ivory Gray	<b>HBL4718DFOIV*</b> <b>HBL4718DFOGY*</b> A: 4.88" (123.90) B: 4.75" (120.65)	<b>External Elbow, Undivided</b> For right angle turns around external corners.	Ivory Gray	<b>HBL4718IV*</b> <b>HBL4718GY*</b> A: 4.88" (123.90) B: 4.75" (120.65)
	<b>Flat Elbow, Divided</b> For right angle turns on same surface. Full capacity 1¼ in. bend radius flat elbow.	Ivory Gray	<b>HBL4711DFOIV*</b> <b>HBL4711DFOGY*</b> A: 7.23" (183.76) B: 1.62" (41.15)	<b>Flat Elbow, Undivided</b> For right angle turns on same surface.	Ivory Gray	<b>HBL4711IV*</b> <b>HBL4711GY*</b> A: 7.23" (183.76) B: 1.62" (41.15)
	<b>Internal or External 45° Elbow</b> For making internal or external turns in a run of HBL4750 Raceway.	Ivory Gray	<b>HBL4712TXIV</b> <b>HBL4712TXGY</b> A: 6.04" (153.45) B: 4.59" (116.59)	<b>Inverted Internal Elbow</b> For connecting a vertical run of HBL4750 Raceway with a horizontal run.	Ivory Gray	<b>HBL4717NIV</b> <b>HBL4717NGY</b> A: 4.60" (116.84) B: 1.66" (42.29)

Tees	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Tee Fitting, Divided</b> For branches at right angles. Full capacity 1¼ in. bend radius tee fitting.	Ivory Gray	<b>HBL4715DFOIV*</b> <b>HBL4715DFOGY*</b> A: 10.93" (277.63) B: 7.27" (184.54) C: 1.62" (41.15)	<b>Tee Fitting, Undivided</b> For branches at right angles.	Ivory Gray	<b>HBL4715IV*</b> <b>HBL4715GY*</b> A: 10.93" (277.63) B: 7.27" (184.54) C: 1.62" (41.15)

Note: \*HBL4751AC couplings included.

Dimensions in Inches (mm)

## HBL4750 Series

End Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Entrance End Fitting, Divided</b> For connecting HBL4750 Raceway with rigid or flexible conduit. Concentric ¾ in., 1 in. and 1¼ in. trade size KOs on back and end. Full capacity 1¼ in. bend radius entrance end fitting. Includes ¾ in., 1 in., 1¼ in. KO and removable divider.</p>	Ivory Gray	<b>HBL4710DFOIV*</b> <b>HBL4710DFOGY*</b> A: 6.76" (171.70) B: 4.75" (120.65) C: 2.66" (67.50)	<p><b>Entrance End Fitting, Undivided</b> For connecting HBL4750 Raceway with rigid or flexible conduit. Concentric ¾ in., 1 in. and 1¼ in. trade size KOs on back and end.</p>	Ivory Gray	<b>HBL4710IV*</b> <b>HBL4710GY*</b> A: 6.76" (171.70) B: 4.75" (120.65) C: 2.66" (67.50)
<p><b>Blank End Fitting</b> For closing open end of HBL4750 Raceway. Has two ½ in. trade size KOs.</p>	Ivory Gray	<b>HBL4710BIV</b> <b>HBL4710BGY</b> A: 4.59" (116.50) B: 1.64" (41.60) C: 1.31" (33.37)	<p><b>Panel Connector</b> To connect HBL4750 Raceway with surface type panel boxes.</p>	Ivory Gray	<b>HBL4786AIV</b> <b>HBL4786AGY</b> A: 7.50" (190.50)	

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Transition Fitting</b> For transitioning Wiremold® 4000 Raceway to Hubbell HBL4750 Raceway.</p>	Ivory Gray	<b>HBL4750TFIV</b> <b>HBL4750TFGY</b> A: 5.02" (127.53) B: 2.79" (70.78)	<p><b>Wall Box Connector</b> For back feeding HBL4750 Raceway.</p>	Ivory Gray	<b>HBL4714AIV</b> <b>HBL4714AGY</b> A: 12.00" (304.80) B: 4.75" (120.65) C: 1.62" (41.15)
	<p><b>End Reducing Connector</b> For connecting HBL4750 Raceway to HBL2400 Raceway through the end of HBL4750 Raceway. Includes HBL2401DC coupling (HBL4751AC not included).</p>	Ivory Gray	<b>HBL4724REDIV</b> A: 4.75" (120.65) B: 3.00" (76.20) C: 1.55" (39.37)	<p><b>Bridge Fitting</b> To bridge HBL4750 series raceway over perpendicular run of raceway or other obstruction. Use standard raceway base and cover, cut in field to required length. Consists of two bridge pieces.</p>	Ivory Gray	<b>HBL4775DKITIV</b> <b>HBL4775DKITGY</b> A: 4.76" (120.90) B: 5.00" (127.00) C: 3.38" (85.85)
	<p><b>Take-Off Connector (HBL4750 To HBL3000)</b> For 90° tee connection of HBL3000 Raceway from HBL4750 Raceway.</p>	Ivory Gray	<b>HBL4774AIV</b> <b>HBL4774AGY</b> A: 11.31" (287.38) B: 4.88" (124.00) C: 3.14" (79.78)	<p><b>2-Gang Tap-Off Fitting</b> Has four concentric ½ in. and ¾ in. trade size KOs.</p>	Ivory Gray	<b>HBL4746H2IV</b> <b>HBL4746H2GY</b> A: 4.75" (120.65) B: 4.75" (120.65)
	<p><b>Connection Cover</b> For covering potential openings where two covers come together.</p>	Ivory Gray	<b>HBL4756AIV</b> <b>HBL4756AGY</b> A: 4.77" (121.16) B: .75" (19.05) C: .13" (3.36)			

Note: \*HBL4751AC couplings included.




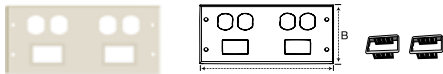

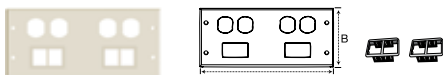

## HBL4750 Series






	Description	Color	Catalog Number	Description	Color	Catalog Number
Device Plates and Mounting Bracket	<b>1-Gang Commercial Device Plate Vertical Mount</b> Use with commercially available 1-gang flush plates. See page R-45 for plate options. For single service applications only.	Ivory Gray	<b>HBL4747CVMIV</b> <b>HBL4747CVMGY</b> A: 2.50" (63.50) B: 4.75" (120.65)	<b>2-Gang Commercial Device Plate Vertical Mount</b> Use with commercially available 2-gang flush plates. See page R-45 for plate options. For single service applications only.	Ivory Gray	<b>HBL4747CVM2IV</b> <b>HBL4747CVM2GY</b> A: 4.32" (109.86) B: 4.75" (120.65)
	<b>2-Gang, One Opening for 1-Gang Comm. Device Plate, One Blank</b> Use with commercially available 1-gang flush plates. See page R-45 for plate options.	Ivory Gray	<b>HBL4747C1IV</b> <b>HBL4747C1GY</b> A: 5.12" (130.18) B: 4.75" (120.65)	<b>2-Gang, One Opening for 2-Gang Commercial Device Plate</b> Use with commercially available 2-gang flush plates. See page R-45 for plate options.	Ivory Gray	<b>HBL4747C2IV</b> <b>HBL4747C2GY</b> A: 5.12" (130.18) B: 4.75" (120.65)
	<b>Device Mounting Bracket</b> Mounting bracket for mounting Hubbell KP Plates, iSTATION Modules and Bezels. See pages R-45 and R-46 for datacom product selection.	Ivory Gray	<b>HBL4750IV</b> <b>HBL4750GY</b> A: 5.25" (133.35) B: 4.76" (120.90)			
2-Gang Cover Plates (Include Mounting Bracket)	<b>2-Gang Cover, Single Round Opening, One Blank</b> For single receptacle with face diameter of 1.38 in. to 1.39 in. (35.00 to 36.00).	Ivory Gray	<b>HBL4747AXIV</b> <b>HBL4747AXGY</b> A: 5.43" (137.97) B: 4.75" (120.65)	<b>2-Gang, Single Round Opening, One Blank</b> For single receptacle with face diameter of 1.56 in. to 1.58 in. (39.62 to 40.13).	Ivory Gray	<b>HBL4747JXIV</b> <b>HBL4747JXGY</b> A: 5.43" (137.97) B: 4.75" (120.65)
	<b>2-Gang, One Duplex Opening, One Blank</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45.	Ivory Gray	<b>HBL4747BXIV</b> <b>HBL4747BXGY</b> A: 5.43" (137.97) B: 4.75" (120.65)	<b>2-Gang, One Style Line® Opening, One Blank</b> For Style Line rectangular receptacles, GFCI and surge devices and rectangular communication frames shown on page R-45.	Ivory Gray	<b>HBL4747RXIV</b> <b>HBL4747RXGY</b> A: 5.43" (137.97) B: 4.75" (120.65)
	<b>2-Gang, Two Duplex Openings</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45.	Ivory Gray	<b>HBL4747BBIV</b> <b>HBL4747BBGY</b> A: 5.43" (137.97) B: 4.75" (120.65)	<b>2-Gang, One Style Line® Opening, One Modular Furniture</b> For Style Line rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45. Includes modular furniture with two keystone twistouts.	Ivory Gray	<b>HBL4747RFIV</b> <b>HBL4747RFGY</b> A: 5.43" (137.97) B: 4.75" (120.65)
	<b>2-Gang, One Duplex Opening, One Modular Furniture</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes modular furniture with two keystone twistouts.	Ivory Gray	<b>HBL4747BFIV</b> <b>HBL4747BFGY</b> A: 5.43" (137.97) B: 4.75" (120.65)	<b>2-Gang, One Duplex Opening, One Style Line® Opening</b> For 15A and 20A duplex receptacles and Style Line rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45.	Ivory Gray	<b>HBL4747BRIV</b> <b>HBL4747BRGY</b> A: 5.43" (137.97) B: 4.75" (120.65)
	<b>2-Gang, One Duplex Opening, One Ortronics® Series II® Mini Adapter Bezel</b> For 15A and 20A duplex recept. and duplex communication plates. Includes Ortronics® Series II® Mini Adapter Bezel.	Ivory Gray	<b>HBL4747BSIV</b> <b>HBL4747BSGY</b> A: 5.43" (137.97) B: 4.75" (120.65)	<b>2-Gang, One Duplex Opening, One Ortronics® TracJack® Mini Adapter Bezel</b> For 15A and 20A duplex recept. and duplex communication plates. Includes Ortronics® TracJack® Mini Adapter Bezel.	Ivory Gray	<b>HBL4747BTIV</b> <b>HBL4747BTGY</b> A: 5.43" (137.97) B: 4.75" (120.65)

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Dimensions in Inches (mm)

## HBL4750 Series

4-Gang Cover Plates (Include Mounting Bracket)	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>4-Gang, Four Duplex Openings</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45.	Ivory Gray	<b>HBL47472BBBBIV</b> <b>HBL47472BBBBGY</b> A: 10.22" (259.56) B: 4.75" (120.65)	<b>4-Gang, Two Style Line® Openings, Two Blanks</b> For Style Line rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45. Includes two blanks.	Ivory Gray	<b>HBL47472RRXXIV</b> <b>HBL47472RRXXGY</b> A: 10.22" (259.56) B: 4.75" (120.65)
						
	<b>4-Gang, Two Duplex Openings, Two Style Line® Openings</b> For 15A and 20A duplex receptacles. Includes Style Line openings for rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45.	Ivory Gray	<b>HBL47472BBRRIV</b> <b>HBL47472BBRRGY</b> A: 10.22" (259.56) B: 4.75" (120.65)	<b>4-Gang, Two Duplex Openings, Two Ortronics® Series II® Mini Adapter Bezels</b> For 15A and 20A duplex receptacles and duplex communication plates. Includes two Ortronics® Series II® Mini Adapter Bezels.	Ivory Gray	<b>HBL47472BBSSIV</b> <b>HBL47472BBSSGY</b> A: 10.22" (259.56) B: 4.75" (120.65)
						
	<b>4-Gang, Two Duplex Openings, Two Modular Furniture</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes two modular furniture with two keystone twistouts.	Ivory Gray	<b>HBL47472BBFFIV</b> <b>HBL47472BBFFGY</b> A: 10.22" (259.56) B: 4.75" (120.65)	<b>4-Gang, Two Duplex Openings, Two Ortronics® TracJack® Mini Adapter Bezels</b> For 15A and 20A duplex receptacles and duplex communication plates. Includes two Ortronics® TracJack® Mini Adapter Bezels.	Ivory Gray	<b>HBL47472BBTTIV</b> <b>HBL47472BBTTGY</b> A: 10.22" (259.56) B: 4.75" (120.65)
						
<b>4-Gang, Two Duplex Openings, Two Blanks</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes two blanks.	Ivory Gray	<b>HBL47472BBXXIV</b> <b>HBL47472BBXXGY</b> A: 10.22" (259.56) B: 4.75" (120.65)				
						

Tools	Description	Color	Catalog Number	Description	Catalog Number	
	<b>Base Cutter</b> Cutter for cutting base of HBL4750 Raceway.			<b>HBL640B</b>	<b>Cover Cutter</b> Cutter for cutting cover of HBL4750 Raceway.	<b>HBL640C</b>
						
	<b>Replacement Blade Cutter and Die Set</b> Base blade set.			<b>HBL640BDK</b>	<b>Replacement Blade Cutter and Die Set</b> Cover blade set.	<b>HBL640CDK</b>
						
<b>Touch-Up Paint Pen</b>	Ivory Gray	<b>HBLIWEP</b> <b>HBLGWEP</b>				
						

Dimensions in Inches (mm)

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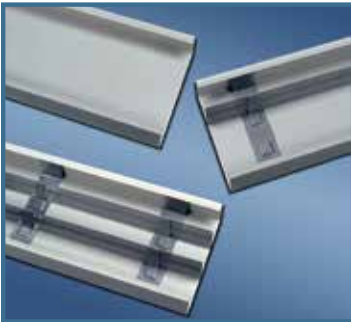
# Metal Raceway

## Products at a Glance



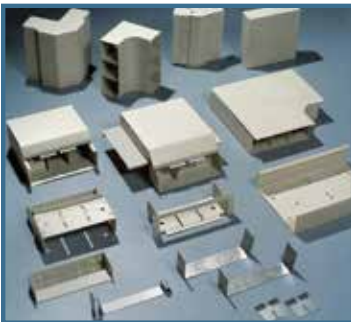
### HBL6750 Device Bracket

- HBL6750 Device Bracket Plate provides excellent solution for three channel power, data, voice, audio and video applications
- For use with Hubbell KP plates and Hubbell iSTATION Modules and Bezels
- Provides flush finish with overlap feature to hide potential miscuts



### Maximum Capacity

- HBL6750 Series options include single channel (no divider), two channel (1/3, 2/3 divider) or three channel (1/3, 1/3, 1/3 divider)
- HBL6750 Series offers maximum capacity in a low profile raceway
- HBL6750, two channel version, features industry leading capacity equivalent to a HBL4750 single channel profile with an additional channel
- Low profile raceway provides a less conspicuous profile than competitive versions
- Available in 10 ft. (3m) lengths



### Unique Line of Fittings

- 1¼ in. (31.75mm) bend radius fittings meet TIA/EIA requirements
- Integral bend radius offers a fixed solution that does not have to be field installed
- Large cross sectional area provides for maximum cable capacity throughout entire system
- Available external, internal, flat, tee and entrance end fittings
- UL Listed, CSA Certified
- Available in ivory or gray powder coat finish

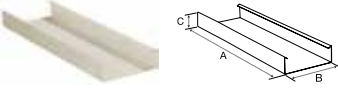
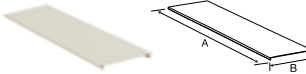


### Plates and Covers


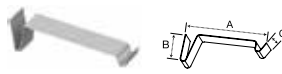



- Wide variety of overlapping cover plates provide flexibility for power, data, voice, audio and video applications
- Available in both three and six-gang options
- Cover plates accept wide selection of Hubbell iSTATION Modules and Bezels
- Cover plates help to conceal unsightly gaps caused by miscuts
- Precut cover options allow for 12 in. (304.80mm), 18 in. (457.20mm), 24 in. (609.60mm) and 36 in. (914.40mm) "on-center" mounting
- Open System architecture available



## HBL6750 Series

HBL6750 Series	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Single Channel Base</b> Packed 20 ft. (6.1m) per carton, 10 ft. (3m) lengths.  Assembled cover and base dimensions: W: 6.75" (171.45) H: 2.22" (56.39)	Ivory Gray	<b>HBL6750B10IV</b> <b>HBL6750B10GY</b> A: 120.00" (3048.00) B: 6.75" (171.45) C: 2.12" (53.85)	<b>5 Ft. Cover</b> Packed 20 ft. (6.1m) per carton, 5 ft. (1.5m) lengths.	Ivory Gray	<b>HBL6750CIV</b> <b>HBL6750CGY</b> A: 60.00" (1,524.0) B: 6.75" (171.45)
		<b>31 In. Precut Cover*</b> For 36 in. (915.00) centers with HBL6747 and HBL6750 Plates.	Ivory Gray	<b>HBL6750C315IV</b> <b>HBL6750C315GY</b> A: 31.50" (800.10) B: 6.75" (171.45)		
		<b>19 In. Precut Cover*</b> For 24 in. (610.00) centers with HBL6747 and HBL6750 Plates.	Ivory Gray	<b>HBL6750C195IV</b> <b>HBL6750C195GY</b> A: 19.50" (495.30) B: 6.75" (171.45)		
		<b>13 In. Precut Cover*</b> For 18 in. (457.00) centers with HBL6747 and HBL6750 Plates.	Ivory Gray	<b>HBL6750C135IV</b> <b>HBL6750C135GY</b> A: 13.50" (342.90) B: 6.75" (171.45)		
		<b>7 In. Precut Cover*</b> For 12 in. (305.00) centers with HBL6747 and HBL6750 Plates.	Ivory Gray	<b>HBL6750C075IV</b> <b>HBL6750C075GY</b> A: 7.50" (190.50) B: 6.75" (171.45)		
						

Note: \*Packed 10 pieces per carton. Device centers vary based on cover selection. Consult factory for details.

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Divider</b> Divides HBL6750 Raceway into two or three channels. Packed 50 ft. (15.24m) per carton, 5 ft. (1.5m) lengths. HBL6751DAGY Divider Clips are required to hold divider in place.	Painted Steel	<b>HBL6750DAGY</b> A: 60.00" (1524.00) B: 2.03" (51.56)	<b>Wire Clip (Plated)</b> For holding conductors in place.	Steel**	<b>HBL6750WCGY</b> A: 6.61" (167.80) B: 2.09" (53.05)
			<b>Divider Clip (Plated)</b> Required for holding HBL6750DAGY in place. Use one every 2.5 ft. (.762m).	<b>Coupling (Plated)</b> For joining lengths of HBL6750 Raceway. Sold in pairs.	Steel**	<b>HBL6751A</b> A: 2.00" (50.71) B: .42" (10.59)
				<b>Internal Corner Coupling (Plated)</b> Concealed fitting for making an internal corner while continuing original run in a straight line.		
		<b>HBL6751DAGY</b> A: 6.60" (167.67) B: 1.97" (50.10)	<b>HBL6717TCAGY</b> A: 6.56" (166.62) B: 1.94" (49.28)			

Note: \*\*Galvanized Steel.

Dimensions in Inches (mm)

## HBL6750 Series

Elbows	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Internal Elbow, Divided</b> For inside surface at right angles. Full capacity 1¼ in. bend radius internal elbow.	Ivory Gray	<b>HBL6717DFOIV*</b> <b>HBL6717DFOGY*</b> A: 4.74" (120.47) B: 6.75" (171.45)	<b>Internal Elbow, Undivided</b> For inside surface at right angles.	Ivory Gray	<b>HBL6717IV*</b> <b>HBL6717GY*</b> A: 4.74" (120.47) B: 6.75" (171.45)	
		<b>External Elbow, Divided</b> For right angle turns around external corners. Full capacity 1¼ in. bend radius external elbow.	Ivory Gray	<b>HBL6718DFOIV*</b> <b>HBL6718DFOGY*</b> A: 5.83" (148.21) B: 6.75" (171.45)	<b>External Elbow, Undivided</b> For right angle turns around external corners.	Ivory Gray	<b>HBL6718IV*</b> <b>HBL6718GY*</b> A: 5.83" (148.21) B: 6.75" (171.45)
		<b>Flat Elbow, Divided</b> For right angle turns on same surface. Full capacity 1¼ in. bend radius flat elbow.	Ivory Gray	<b>HBL6711DFOIV*</b> <b>HBL6711DFOGY*</b> A: 9.23" (234.45) B: 6.75" (171.45) C: 2.14" (54.23) D: 9.83" (249.69) E: 6.75" (171.45)	<b>Flat Elbow, Undivided</b> For right angle turns on same surface.	Ivory Gray	<b>HBL6711IV*</b> <b>HBL6711GY*</b> A: 9.23" (234.45) B: 6.75" (171.45) C: 2.14" (54.23) D: 9.83" (249.69) E: 6.75" (171.45)
		<b>Internal or External 45° Elbow</b> For making internal or external turns in a run of HBL6750 Raceway.	Ivory Gray	<b>HBL6712TXIV</b> <b>HBL6712TXGY</b> A: 6.53" (165.93) B: 6.56" (166.62)	<b>Inverted Internal Elbow</b> For connecting a vertical run of HBL6750 Raceway with a horizontal run.	Ivory Gray	<b>HBL6717NIV</b> <b>HBL6717NGY</b> A: 6.56" (166.62) B: 5.13" (130.30)

Tees	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Tee Fitting, Divided</b> For branches at right angles. Full capacity 1¼ in. bend radius tee fitting.	Ivory Gray	<b>HBL6715DFOIV*</b> <b>HBL6715DFOGY*</b> A: 8.75" (222.25) B: 6.63" (168.40) C: 3.56" (90.48) D: 7.92" (201.07) E: 6.75" (171.45)	<b>Tee Fitting, Undivided</b> For branches at right angles.	Ivory Gray	<b>HBL6715IV*</b> <b>HBL6715GY*</b> A: 8.75" (222.25) B: 6.63" (168.40) C: 3.56" (90.48) D: 7.92" (201.07) E: 6.75" (171.45)

Note: \*HBL6751A couplings included.

Dimensions in Inches (mm)

## HBL6750 Series

	Description	Color	Catalog Number	Description	Color	Catalog Number
<b>End Fittings</b>	<b>Entrance End Fitting, Divided</b> For connecting HBL6750 Raceway with rigid or flexible conduit. Concentric ¼ in., 1 in. and 1¼ in. trade size KOs on back and end. Full capacity 1¼ in. bend radius entrance end fitting. Includes ¼ in., 1 in. and 1¼ in. KO and removable dividers.	Ivory Gray	<b>HBL6710DFOIV*</b> <b>HBL6710DFOGY*</b> A: 6.75" (171.45) B: 6.75" (171.45) C: 3.18" (180.71)	<b>Entrance End Fitting, Undivided</b> For connecting HBL6750 Raceway with rigid or flexible conduit. Concentric ¼ in., 1 in. and 1¼ in. trade size KOs on back and end.	Ivory Gray	<b>HBL6710IV*</b> <b>HBL6710GY*</b> A: 6.75" (171.45) B: 6.75" (171.45) C: 3.18" (180.71)
		<b>Blank End Fitting</b> For closing open end of HBL6750 Raceway. Has three ½ in. trade size KOs.	Ivory Gray	<b>HBL6710BIV</b> <b>HBL6710BGY</b> A: 6.56" (166.62) B: 1.98" (50.41) C: 1.33" (33.90)	<b>Panel Connector</b> To connect HBL6750 Raceway with surface type panel boxes.	Ivory Gray

	Description	Color	Catalog Number	Description	Color	Catalog Number
<b>Fittings</b>	<b>Transition Fitting</b> For transitioning from Wiremold® 6000 Raceway to Hubbell HBL6750 Raceway.	Ivory Gray	<b>HBL6750TFIV</b> <b>HBL6750TFGY</b> A: 4.35" (110.42) B: 6.96" (176.87)	<b>Wall Box Connector</b> For back feeding HBL6750 Raceway.	Ivory Gray	<b>HBL6714AIV</b> <b>HBL6714AGY</b> A: 6.75" (171.45) B: 2.14" (54.28) C: 9.90" (251.46)
	<b>Take-Off Connector (HBL6750-HBL4750)</b> For 90° tee connection of HBL4750 Raceway from HBL6750 Raceway.	Ivory Gray	<b>HBL6774AIV</b> <b>HBL6774AGY</b> A: 14.36" (364.76) B: 6.75" (171.45) C: 11.47" (291.29) D: 6.72" (170.69)	<b>3-Gang Tap-Off Fitting</b> Has six concentric ½ in. and ¾ in. trade size KOs.	Ivory Gray	<b>HBL6746HHIV</b> <b>HBL6746HHGY</b> A: 4.35" (110.42) B: 6.96" (176.87)
	<b>Connection Cover</b> For covering potential openings where two covers come together.	Ivory Gray	<b>HBL6756AIV</b> <b>HBL6756AGY</b> A: 6.75" (171.45) B: .59" (14.89)			

Note: \*HBL4751AC couplings included.


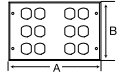

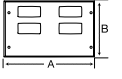

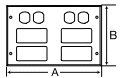

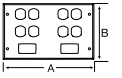

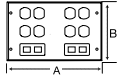

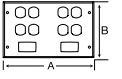

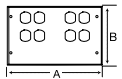
## HBL6750 Series






	Description	Color	Catalog Number	Description	Color	Catalog Number
Device Plates & Mounting Bracket	<b>3-Gang, One Opening for 1-Gang Commercial Device Plate, Two Blanks</b> Use with commercially available 1-gang flush plates. See page R-45 for plate options.	Ivory Gray	<b>HBL6747C1IV</b> <b>HBL6747C1GY</b> A: 5.43" (137.97) B: 6.75" (171.45)	<b>3-Gang, One Opening for 2-Gang Commercial Device Plate, One Blank</b> Use with commercially available 2-gang flush plates. See page R-45 for plate options.	Ivory Gray	<b>HBL6747C2IV</b> <b>HBL6747C2GY</b> A: 5.43" (137.97) B: 6.75" (171.45)
	<b>Device Mounting Bracket</b> Mounting bracket for mounting Hubbell KP Plates, iSTATION Modules and Bezels. See pages R-45 and R-46 for datacom product selection.	Ivory Gray	<b>HBL6750IV</b> <b>HBL6750GY</b> A: 5.25" (133.35) B: 6.75" (171.45)			
3-Gang Cover Plates (Include Mounting Bracket)	<b>3-Gang, One Duplex Opening, Two Blanks</b> For 15A and 20A duplex receptacles and duplex communication plates.	Ivory Gray	<b>HBL6747BXXIV</b> <b>HBL6747BXXGY</b> A: 5.43" (137.97) B: 6.75" (171.45)	<b>3-Gang, One Single Round Opening, Two Blanks</b> For single receptacle with face diameter of 1.38 in. to 1.39 in. (35.05 to 35.31).	Ivory Gray	<b>HBL6747AXXIV</b> <b>HBL6747AXXGY</b> A: 5.43" (137.97) B: 6.75" (171.45)
	<b>3-Gang, Three Duplex Openings</b> For 15A and 20A duplex receptacles and duplex communication plates.	Ivory Gray	<b>HBL6747BBBIV</b> <b>HBL6747BBBGY</b> A: 5.43" (137.97) B: 6.75" (171.45)	<b>3-Gang, One Single Round Opening, Two Blanks</b> For single receptacle with face diameter of 1.56 in. to 1.58 in. (39.62 to 40.13).	Ivory Gray	<b>HBL6747JXXIV</b> <b>HBL6747JXXGY</b> A: 5.43" (137.97) B: 6.75" (171.45)
	<b>3-Gang, One Duplex Opening, Two Style Line® Openings</b> For 15A and 20A duplex receptacles and duplex communication plates. Includes Style Line openings for rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45.	Ivory Gray	<b>HBL6747BRRIV</b> <b>HBL6747BRRGY</b> A: 5.43" (137.97) B: 6.75" (171.45)	<b>3-Gang, One Style Line® Opening, Two Blanks</b> For one Style Line rectangular receptacle, GFCI, surge device or rectangular communication device.	Ivory Gray	<b>HBL6747RXXIV</b> <b>HBL6747RXXGY</b> A: 5.43" (137.97) B: 6.75" (171.45)
	<b>3-Gang, Two Duplex Openings, One Modular Furniture</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes modular furniture with two keystone twistouts.	Ivory Gray	<b>HBL6747BBFIV</b> <b>HBL6747BBFGY</b> A: 5.43" (137.97) B: 6.75" (171.45)	<b>3-Gang, Two Style Line® Openings, One Modular Furniture</b> For two Style Line rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45. Includes modular furniture with two keystone twistouts.	Ivory Gray	<b>HBL6747RRFIV</b> <b>HBL6747RRFGY</b> A: 5.43" (137.97) B: 6.75" (171.45)
	<b>3-Gang, Two Duplex Openings, One Ortronics® Series II® Mini Adapter Bezel</b> For two 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes Ortronics® Series II® Mini Adapter Bezel.	Ivory Gray	<b>HBL6747BBSIV</b> <b>HBL6747BBSGY</b> A: 5.43" (137.97) B: 6.75" (171.45)	<b>3-Gang, Two Duplex Openings, One Ortronics® TracJack® Mini Adapter Bezel</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes Ortronics® TracJack® Mini Adapter Bezel.	Ivory Gray	<b>HBL6747BBTIV</b> <b>HBL6747BBTGY</b> A: 5.43" (137.97) B: 6.75" (171.45)

Ortronics®, Series II® and TracJack® are registered trademarks of The Ortronics Company.

Dimensions in Inches (mm)

## HBL6750 Series

6-Gang Cover Plates (Include Mounting Bracket)	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>6-Gang, Six Duplex Openings</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45.	Ivory Gray	<b>HBL67473BBBBBIV</b> <b>HBL67473BBBBBBGY</b> A: 10.22" (259.56) B: 6.75" (171.45)	<b>6-Gang, Four Style Line® Openings, Two Blanks</b> For four Style Line rectangular receptacles, GFCI, surge devices and rectangular communication frames shown on page R-45.	Ivory Gray	<b>HBL67473RRRRXXIV</b> <b>HBL67473RRRRXXGY</b> A: 10.22" (259.56) B: 6.75" (171.45)
	 			 		
	<b>6-Gang, Two Duplex Openings, Four Style Line® Openings</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes Style Line openings for rectangular receptacles, GFCI, surge devices and rectangular communication devices.	Ivory Gray	<b>HBL67473BBRRRRIV</b> <b>HBL67473BBRRRRGY</b> A: 10.22" (259.56) B: 6.75" (171.45)	<b>6-Gang, Four Duplex Openings, Two Ortronics® Series II® Mini Adapter Bezels</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes two Ortronics® Series II® Mini Adapter Bezels.	Ivory Gray	<b>HBL67473BBBBSSIV</b> <b>HBL67473BBBBSSGY</b> A: 10.22" (259.56) B: 6.75" (171.45)
	 			 		
<b>6-Gang, Four Duplex Openings, Two Modular Furniture</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes two modular furniture with two keystone twistouts.	Ivory Gray	<b>HBL67473BBBBFFIV</b> <b>HBL67473BBBBFFGY</b> A: 10.22" (259.56) B: 6.75" (171.45)	<b>6-Gang, Four Duplex Openings, Two Ortronics® TracJack® Mini Adapter Bezels</b> For 15A and 20A duplex receptacles and duplex communication frames shown on page R-45. Includes two Ortronics® TracJack® Mini Adapter Bezels.	Ivory Gray	<b>HBL67473BBBBTTIV</b> <b>HBL67473BBBBTTGY</b> A: 10.22" (259.56) B: 6.75" (171.45)	
 			 			
<b>6-Gang, Four Duplex Openings, Two Blanks</b> For four 15A and 20A duplex receptacles and duplex communication frames shown on page R-45.	Ivory Gray	<b>HBL67473BBBBXXIV</b> <b>HBL67473BBBBXXGY</b> A: 10.22" (259.56) B: 6.75" (171.45)				
 						

Tools	Description	Color	Catalog Number	Description	Catalog Number	
	<b>Base Cutter</b> Cutter for cutting base of HBL6750 Raceway.			<b>HBL660B</b>	<b>Cover Cutter</b> Cutter for cutting cover of HBL6750 Raceway.	<b>HBL660C</b>
						
<b>Replacement Blade Cutter and Die Set</b> Base blade set.			<b>HBL660BDK</b>	<b>Replacement Blade Cutter and Die Set</b> Cover blade set.	<b>HBL660CDK</b>	
						
<b>Touch-Up Paint Pen</b>	Ivory Gray	<b>HBLIWEP</b> <b>HBLGWEP</b>				
						

Dimensions in Inches (mm)

Ortronics®, Series II® and TracJack® are registered trademarks of The Ortronics Company.



# Aluminum Raceway

## Products at a Glance



### HBLALU2000 Series

- Single channel aluminum raceway
- Satin anodized finish
- Resists oxidation, corrosion and fading
- Can be installed as recessed or surface mounted
- UL Listed and CSA Certified



### Aluminum Boxes

- Both in-line and standard boxes available
- Hubbell Handy-Screw® eliminates difficult to install long screws for easier installation
- Rounded corners eliminate sharp edges
- One seam construction provides “clean” look
- Box design allows standard wallplates to be mounted flush with virtually no perimeter profile exposed
- Full line of metal wallplates available. See section N for selection



### Wide Selection of Fittings



- Elbows (external, internal, flat) and tee fitting available to accommodate all types of applications
- HBLALU2001 Coupling included with elbows and tee fitting

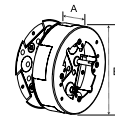
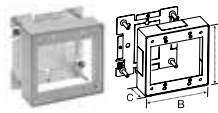
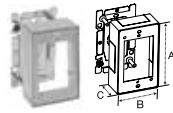


### Aluminum PlugTrak® Featuring Exclusive Receptacle Design

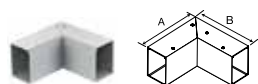
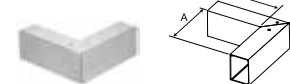
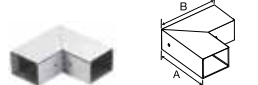

- Satin anodized scratch resistant finish
- Multiple spacing configurations
- Hubbell designed and manufactured single receptacle
- Insulation displacement wiring provides superior wire retention
- Mates with HBLALU2000 Aluminum Raceway
- Available in 3 ft. (0.9m), 5 ft. (1.5m) and 6 ft. (1.8m) lengths
- Tamper-Resistant versions available

## HBLALU2000 Series

HBLALU2000 Series	Description	Material	Catalog Number	Description	Material	Catalog Number	
	<b>5 Ft. Base</b> Satin anodized finish. Packed 60 ft. (18.3m) per carton, 5 ft. (1.5m) lengths.	Anodized Aluminum	<b>HBLALU2000B5</b>	A: .82" (21.00) B: 1.84" (46.74)	<b>Cover</b> Satin anodized finish. Packed 60 ft. (18.3m) per carton, 5 ft. (1.5m) lengths. 	Anodized Aluminum	<b>HBLALU2000C5</b>
<b>10 Ft. Base</b> Satin anodized finish. Packed 60 ft. (18.3m) per carton, 10 ft. (3m) lengths.	Anodized Aluminum	<b>HBLALU2000B10</b>	A: .82" (21.00) B: 1.84" (46.74)				
Assembled cover and base dimensions. W: 1.84" (46.74) H: .91" (23.11) 							



Standard	Description	Material	1-Gang	2-Gang	Description	Material	Round Box	
	<b>Device Box</b> For standard switches and receptacles.	Anodized Aluminum	<b>HBLALU2047</b>	A: 4.54" (115.32) B: 2.82" (71.63) C: 1.38" (35.05)	<b>HBLALU20472</b>	A: 4.54" (115.32) B: 4.64" (117.86) C: 1.38" (35.05)	Anodized Aluminum	<b>HBLALU2038</b>
<b>Deep</b>	<b>Device Box</b> For deep switches and receptacles.	Anodized Aluminum	<b>HBLALU2044</b>	<b>HBLALU20442</b>	<b>Fixture Box with Solid Base</b> To hang fixtures. Cover takes any device with mounting screw centers of 2.75 in. (69.85), 3.5 in. (89.00) and 4.06 in. (103.00).	Anodized Aluminum		
		Base Trade Size KOs 1 - 1/2", 3/4" Concentric 1 - Rectangular		1 - 1/2" 1 - Rectangular				

Elbows and Tees	Description	Material	Catalog Number	Description	Material	Catalog Number	
	<b>Internal Elbow</b> For making a 90° internal turn in a raceway run. 	Anodized Aluminum	<b>HBLALU2017*</b>	A: 3.00" (76.20) B: 3.00" (76.20)	<b>External Elbow</b> For making a 90° external turn in a raceway run. 	Anodized Aluminum	<b>HBLALU2018*</b>
<b>Flat Elbow</b> For making a 90° flat turn in a raceway run. 	Anodized Aluminum	<b>HBLALU2011*</b>	A: 3.00" (76.20) B: 3.00" (76.20)	<b>Tee Fitting</b> For branch connections of right angles. 	Anodized Aluminum	<b>HBLALU2015*</b>	A: 4.00" (101.60) B: 3.40" (86.36)

Note: \*HBLALU2001 couplings included.

Dimensions in Inches (mm)

## HBLALU2000 Series

End Fittings	Description	Material	Catalog Number	Description	Material	Catalog Number
	<p><b>Entrance End Fitting</b> ½ in. NPT steel fitting.</p>	Anodized Aluminum Plate	<b>HBLALU2010A</b> A: 1.84" (47.74) B: .91" (23.11) C: 1.51" (38.35)	<p><b>Blank End Fitting</b> For closing end of raceway.</p>	Anodized Aluminum	<b>HBLALU2010B</b> A: 1.84" (46.74) B: .91" (23.11)

Fittings	Description	Material	Catalog Number	Description	Material	Catalog Number
	<p><b>Cover Clip</b> Use to cover potential openings where two pieces of HBLALU2000 Raceway cover come together.</p>	Stainless Steel	<b>HBLALU2006</b> A: 1.00" (25.40)	<p><b>Wire Clip</b> For holding conductors in place.</p>	Anodized Aluminum	<b>HBLALU2000WC</b> A: .44" (11.20)
<p><b>Flush Plate Adaptor</b> For feeding HBL2000 Raceway from an existing wall outlet. Locknut included.</p>	Anodized Aluminum	<b>HBLALU2051H</b> A: 4.50" (114.3) B: 4.50" (114.3)	<p><b>Coupling (Pair)</b> For joining lengths of HBLALU2000 Raceway.</p>	Aluminum	<b>HBLALU2001</b> A: 1.67" (42.42) B: 1.67" (42.42)	

Devices and In-Line Fittings	Description	Material	Catalog Number	Description	Material	Catalog Number
	<p><b>In-Line Switch Fitting</b> (Switch sold separately).</p>	Anodized Aluminum	<b>HBLALU2040A</b> A: 4.12" (104.65) B: 1.84" (46.74)	<p><b>Ground Adapter (Plated)</b> For connection of equipment grounding conductor to provide an additional ground to raceway. Screws included.</p>	Steel**	<b>HBLALU2009</b> A: 2.35" (59.8) B: 1.18" (30.0)
<p><b>Supporting Clip</b> For mounting lengths of HBLALU2000 Raceway at any point. Mount with #6 flat head fastener. Has set screw for locking to raceway. Raceway must be screwed to the wall for secure fastening.</p>	Stainless Steel	<b>HBLALU2003</b> A: 2.00" (50.80)				

Note: \*HBLALU2001 couplings included.  
\*\*Galvanized Steel.

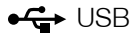
Dimensions in Inches (mm)

# Aluminum Raceway



## Aluminum PlugTrak® Series

Available in Standard, Isolated Ground (IG), Tamper-Resistant (TR) and USB (U) versions.



Tamper-Resistant

	Amp Circuits	Single Recept.	USB Ports	Receptacle Spacing (in.)	Catalog Number
3 Foot	15 Single	6	—	6	<b>HBLALU20GB306</b>
	15 IG/Single	6	—	6	<b>HBLALU20IG306</b>
	15 TR/Single	6	—	6	<b>HBLALU20GB306TR</b>
	15 USB/Single	2	2	12	<b>HBLALU20GB312U</b>
	20 Single	6	—	6	<b>HBLALU24GB306</b>
	20 IG/Single	6	—	6	<b>HBLALU24IG306</b>
	20 TR/Single	6	—	6	<b>HBLALU24GB306TR</b>
5 Foot	15 Single	10	—	6	<b>HBLALU20GB506</b>
	15 Single	5	—	12	<b>HBLALU20GB512</b>
	15 IG/Single	10	—	6	<b>HBLALU20IG506</b>
	15 TR/Single	5	—	12	<b>HBLALU20GB512TR</b>
	20 Single	10	—	6	<b>HBLALU24GB506</b>
	20 Single	5	—	12	<b>HBLALU24GB512</b>
	20 IG/Single	10	—	6	<b>HBLALU24IG506</b>
20 TR/Single	5	—	12	<b>HBLALU24GB512TR</b>	
6 Foot	15 Single	12	—	6	<b>HBLALU20GB606</b>
	15 Single	6	—	12	<b>HBLALU20GB612</b>
	15 Single	4	—	18	<b>HBLALU20GB618</b>
	15 Two	12	—	6	<b>HBLALU20GBA606</b>
	15 Two	6	—	12	<b>HBLALU20GBA612</b>
	15 Two	4	—	18	<b>HBLALU20GBA618</b>
	15 IG/Single	12	—	6	<b>HBLALU20IG606</b>
	15 USB/Single	4	4	12	<b>HBLALU20GB612U</b>
	20 Single	12	—	6	<b>HBLALU24GB606</b>
	20 Single	6	—	12	<b>HBLALU24GB612</b>
	20 Single	4	—	18	<b>HBLALU24GB618</b>
	20 Two	12	—	6	<b>HBLALU24GBA606</b>
	20 Two	6	—	12	<b>HBLALU24GBA612</b>
20 Two	4	—	18	<b>HBLALU24GBA618</b>	
20 IG/Single	12	—	6	<b>HBLALU24IG606</b>	

	Description	Catalog Number
Device Boxes	Standard 1-Gang Device Box	<b>HBLALU2047</b>
	Deep 1-Gang Device Box	<b>HBLALU2044</b>
	Standard 2-Gang Device Box	<b>HBLALU20472</b>
	Deep 2-Gang Device Box	<b>HBLALU20442</b>
	Round Box	<b>HBLALU2038</b>
	Elbows and Tees	External Elbow
Internal Elbow		<b>HBLALU2017</b>
Flat Elbow		<b>HBLALU2011</b>
Tee		<b>HBLALU2015</b>
Fittings	Cover Clip	<b>HBLALU2006</b>
	Supporting Clip	<b>HBLALU2003</b>
	Coupling	<b>HBLALU2001</b>
	Entrance End Fitting	<b>HBLALU2010A</b>
	In-Line Switch Fitting	<b>HBLALU2040A</b>
	Blank End Fitting	<b>HBLALU2010B</b>

Note: See pages R-34 and R-35 for additional information.

Note: IG = Isolated Ground, TR = Tamper-Resistant and U = USB.  
Hubbell Aluminum PlugTrak is supplied with two HBLALU2010B blank end fittings and one HBLALU2001 coupling.

Dimensions in Inches (mm)

# Aluminum Raceway

## Products at a Glance



### HBLALU3800 and HBLALU4800 Series

- Single and two channel aluminum raceways
- Satin anodized finish
- Resists oxidation, corrosion and fading
- Can be installed as recessed or surface mounted
- UL Listed and CSA Certified



### Split Covers

- Single and two channel raceways utilize common cover
- Split covers allow access to one service at a time
- Common aesthetics throughout line



### Wide Selection of Fittings

- External, internal, flat and tee fittings available to accommodate all types of applications
- Available in both single and two channel versions



### Device Cover Plates

- Cover plates can be used for both HBLALU3800 and HBLALU4800 Raceways
- Cover plates offer option for most common power device applications
- Low profile bezel cover accommodates Hubbell iSTATION Modules
- Open System data option available
- Base mounted cover plates available for added strength



## HBLALU3800 Series

HBLALU3800 Series	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Single Channel Base</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 10 ft. (3m) lengths.  Assembled cover and base dimensions. W: 3.00" (76.20) H: 2.25" (57.15)	Anodized Aluminum	<b>HBLALU3800B10</b>	A: 2.10" (53.34) B: 3.00" (76.20)	<b>Cover</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 5 ft. (1.5m) lengths.	Anodized Aluminum	<b>HBLALUC5</b>

Elbows and Tees	Description	Color	Catalog Number	Description	Color	Catalog Number		
	<b>Internal Elbow</b> For making a 90° internal turn in a raceway run.	Anodized Aluminum	<b>HBLALU3817*</b>	A: 6.00" (152.40) B: 6.00" (152.40)	<b>Inverted Internal Elbow</b> For connecting a vertical run of HBLALU3800 with a horizontal run with its cover facing up.	Anodized Aluminum	<b>HBLALU3817N*</b>	A: 6.00" (152.40) B: 5.98" (151.89)
	<b>External Elbow</b> For making a 90° external turn in a raceway run.	Anodized Aluminum	<b>HBLALU3818*</b>	A: 6.00" (152.40) B: 6.00" (152.40)	<b>Tee</b> For branch connections of two runs of HBLALU3800 Raceway.	Anodized Aluminum	<b>HBLALU3815*</b>	A: 6.00" (152.40) B: 6.00" (152.40)
	<b>Flat Elbow</b> For making a 90° flat turn in a raceway run.	Anodized Aluminum	<b>HBLALU3811*</b>	A: 6.00" (152.40) B: 6.00" (152.40)				

End Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Entrance End Fitting</b> For feeding raceway, has concentric ½ in. and ¾ in. trade size KOs.	Anodized Aluminum	<b>HBLALU3810B1</b>	A: 3.00" (76.20) B: 2.31" (58.74)	<b>Blank End Fitting</b> For closing end of raceway.	Anodized Aluminum	<b>HBLALU3810B</b>

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number		
	<b>Cover Clip</b> To cover seam where lengths of HBLALU3800 Raceway come together.	Stainless Steel	<b>HBLALU3806</b>	A: 1.38" (34.92)	<b>Wire Clip</b> For holding conductors in place. Can be used for either HBLALU3800 or HBLALU4800 Raceway.	Anodized Aluminum	<b>HBLALUWC</b>	A: 1.00" (25.40)
	<b>Internal Corner Coupling</b> For butting two raceway sections to form an internal 90° turn in a raceway run.	Anodized Aluminum	<b>HBLALU17A</b>	A: 4.00" (101.80) B: 2.00" (50.83)	<b>Grounding Adapter</b> For connection of equipment grounding. #10-32 Locking screws included.	Galvanized Steel	<b>HBLALU09</b>	A: 4.00" (101.80) B: 2.00" (50.83)
<b>Couplings (Pair)</b> To join lengths of HBLALU3800 or HBLALU4800 base.	Aluminum	<b>HBLALU01</b>	A: 2.85" (72.39) B: 4.00" (101.80)					

Note: \*HBLALU01 couplings included.  
See page R-40 for cover plates.

Dimensions in Inches (mm)

## HBLALU4800 Series

HBLALU4800 Series	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Two Channel Base</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 10 ft. (3m) lengths.  Assembled cover and base dimensions. W: 6.00" (152.40) H: 2.25" (57.15)	Anodized Aluminum	<b>HBLALU4800B10</b> A: 2.10" (53.34) B: 6.00" (152.40)	<b>Cover (Single Channel)</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 5 ft. (1.5m) lengths.	Anodized Aluminum	<b>HBLALUC5</b> A: 3.00" (76.20)

	Description	Color	Catalog Number	Description	Color	Catalog Number
Elbows and Tees	<b>Internal Elbow (Two Channel)</b> For making a 90° internal turn in a raceway run.	Anodized Aluminum	<b>HBLALU4817*</b> A: 6.00" (152.40) B: 6.00" (152.40)	<b>Inverted Internal Elbow (Two Channel)</b> For connecting a vertical run of HBLALU4800 with a horizontal run with its cover facing up.	Anodized Aluminum	<b>HBLALU4817N*</b> A: 6.00" (152.40) B: 5.98" (151.89)
	<b>External Elbow (Two Channel)</b> For making a 90° external turn in a raceway run.	Anodized Aluminum	<b>HBLALU4818*</b> A: 6.00" (152.40) B: 6.00" (152.40)	<b>Tee (Two Channel)</b> For branch connections of two runs of HBLALU4800 Raceway.	Anodized Aluminum	<b>HBLALU4815*</b> A: 9.00" (228.60) B: 9.00" (228.60)
	<b>Flat Elbow (Two Channel)</b> For making a 90° flat turn in a raceway run.	Anodized Aluminum	<b>HBLALU4811*</b> A: 9.00" (228.60) B: 9.00" (228.60)			
End Fittings	<b>Entrance End Fitting (Two Channel)</b> For feeding raceway, has two concentric 1/2 in. and 3/4 in. trade size KOs.	Anodized Aluminum	<b>HBLALU4810B2</b> A: 6.00" (152.40) B: 2.31" (58.74)	<b>Blank End Fitting (Two Channel)</b> For closing end of raceway.	Anodized Aluminum	<b>HBLALU4810B</b> A: 6.00" (152.40) B: 2.31" (58.74)
	<b>Cover Clip</b> To cover seam where lengths of HBLALU4800 Raceway come together.	Stainless Steel	<b>HBLALU4806</b> A: 1.38" (34.92)	<b>Wire Clip</b> Used for holding conductors in place on raceway. Can be used for either HBLALU3800 or HBLALU4800 Raceway.	Anodized Aluminum	<b>HBLALUWC</b> A: 1.00" (25.40)
Fittings	<b>Internal Corner Coupling</b> For butting two raceway sections to form an internal 90° turn in a raceway run.	Anodized Aluminum	<b>HBLALU17A</b> A: 4.00" (101.80) B: 2.00" (50.83)	<b>Grounding Adapter</b> For connection of equipment grounding. #10-32 Locking screws included.	Galvanized Steel	<b>HBLALU09</b> A: 4.00" (101.80) B: 2.00" (50.83)
	<b>Couplings (Pair)</b> To join lengths of HBLALU3800 or HBLALU4800 base.	Aluminum	<b>HBLALU01</b> A: 2.85" (72.39) B: 4.00" (101.80)			

Note: \*HBLALU01 couplings included.  
See page R-40 for cover plates.

Dimensions in Inches (mm)

## HBLALU3800 and HBLALU4800 Series

Cover Plates	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Duplex Receptacle Cover</b> For duplex receptacles and duplex communication frames shown on page R-45.	Anodized Aluminum	<b>HBLALUDR</b> A: 3.00" (76.20) B: 12.00" (304.80)	<b>HBLALU34DRBM</b> (Base Mounted Device) A: 3.00" (76.20) B: 12.00" (304.80)	<b>Toggle Switch Cover</b> For single pole, two pole, three way or four way switches.	Anodized Aluminum	<b>HBLALUN</b> A: 3.00" (76.20) B: 12.00" (304.80)
		<b>Rectangular Style Line® Cover</b> For Style Line rectangular duplex receptacle, GFCI, surge device or rectangular communication frames shown on page R-45.	Anodized Aluminum	<b>HBLALUG</b> A: 3.00" (76.20) B: 12.00" (304.80)	<b>Single Receptacle Cover</b> For single receptacle with face diameters of 1.38 in. to 1.39 in. (35.05 to 35.31).	Anodized Aluminum	<b>HBLALUE</b> A: 3.00" (76.20) B: 12.00" (304.80)
		<b>Single Receptacle Cover</b> For single receptacle with face diameters of 1.56 in. to 1.59 in. (39.62 to 40.39).	Anodized Aluminum	<b>HBLALUF</b> A: 3.00" (76.20) B: 12.00" (304.80)	<b>Single Receptacle Cover</b> For single receptacle with face diameter of 2.13 in. (54.10).	Anodized Aluminum	<b>HBLALUJ</b> A: 3.00" (76.20) B: 12.00" (304.80)
		<b>Blank Cover</b> To cover 12 in. (305.00) section of raceway.	Anodized Aluminum	<b>HBLALUBL</b> A: 3.00" (76.20) B: 12.00" (304.80)	<b>Ortronics® Cover Plate</b> For two Ortronics TracJack® or one Series II® datacom insert. Both bezels included.	Anodized Aluminum	<b>HBLALUABRT</b> A: 3.00" (76.20) B: 12.00" (304.80)
		<b>Hubbell iSTATION Cover</b> For mounting Hubbell iSTATION Modules. For the HBLALUPB use the KPIMBZGY on page R-45 with modules from page R-46. For the HBLALULPBA use the IMF1GY on page R-46 or any IFPxxGY plates on page R-45.	Anodized Aluminum	<b>HBLALULPB</b> A: 3.00" (76.20) B: 12.00" (304.80) C: 1.90 (48.26) D: 4.21 (106.93)			
	<b>HBLALULPBA</b> A: 3.00" (76.20) B: 12.00" (304.80) C: 1.90 (48.26) D: 3.00" (76.20)						

### Base Mounted Device Cover Design

No exposed screw holes. Receptacle is securely mounted to the raceway base rather than the cover.

Dimensions in Inches (mm)

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# Aluminum Raceway

## Products at a Glance



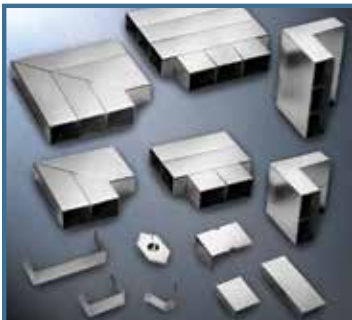
### HBLALU5000 and HBLALU7620 Series

- Two and three channel aluminum raceways
- Satin anodized finish
- Resists oxidation, corrosion and fading
- Can be installed as recessed or surface mounted
- UL Listed and CSA Certified



### Covers

- Two and three channel raceway utilize common covers
- Available in single and dual channel cover designs
- Single covers allow access to one service at a time
- Dual channel cover fits over two channels for a seamless look
- Common aesthetics throughout line



### Wide Selection of Fittings

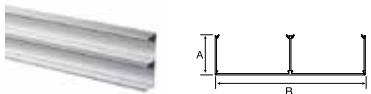

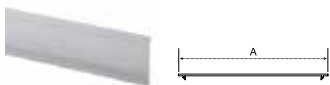
- External, internal, flat and tee fittings available to accommodate all types of applications
- Available in both two and three channel versions

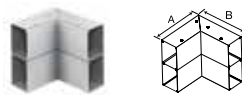
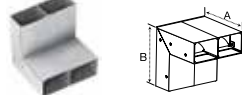
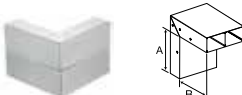
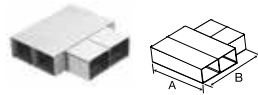




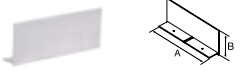
### Compatible Cover Plates

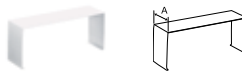

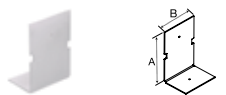
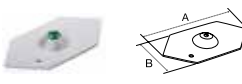

- Cover plates can be used for both HBLALU5000 and HBLALU7620 Raceways
- Cover plates offer option for most common power device applications
- Low profile bezel cover accommodates Hubbell iSTATION Modules
- Open System data option available
- Base mounted cover plates available for added strength

## HBLALU5000 Series

HBLALU5000 Series	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Two Channel Base</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 10 ft. (3m) lengths.</p> <p>Assembled cover and base dimensions. W: 5.08" (129.03) H: 1.75" (44.45)</p> 	Anodized Aluminum	<b>HBLALU5000B10</b> A: 1.66" (42.16) B: 5.08" (129.03)	<p><b>Cover (Single Channel)</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 5 ft. (1.5m) lengths.</p> 	Anodized Aluminum	<b>HBLALUC57</b> A: 2.54" (64.52)
			<p><b>Cover (Two Channel)</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 5 ft. (1.5m) lengths.</p> 	Anodized Aluminum	<b>HBLALU2C57</b> A: 5.08" (129.03)	

Elbows and Tees	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Internal Elbow</b> For making a 90° internal turn in a raceway run.</p> 	Anodized Aluminum	<b>HBLALU5017*</b> A: 6.00" (152.40) B: 6.00" (152.40)	<p><b>Inverted Internal Elbow</b> For connecting a vertical run of HBLALU5000 with a horizontal run with its cover facing up.</p> 	Anodized Aluminum	<b>HBLALU5017N*</b> A: 5.91" (150.20) B: 5.98" (151.89)
	<p><b>External Elbow</b> For making a 90° external turn in a raceway run.</p> 	Anodized Aluminum	<b>HBLALU5018*</b> A: 6.00" (152.40) B: 6.00" (152.40)	<p><b>Tee</b> For branch connections of two runs of HBLALU5000 Raceway.</p> 	Anodized Aluminum	<b>HBLALU5015*</b> A: 9.00" (228.60) B: 8.08" (205.30)
<p><b>Flat Elbow</b> For making a 90° flat turn in a raceway run.</p> 	Anodized Aluminum	<b>HBLALU5011*</b> A: 9.00" (228.60) B: 9.00" (228.60)				

End Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Entrance End Fitting</b> For feeding raceway, has concentric ½ in. and ¾ in. trade size KOs.</p> 	Anodized Aluminum	<b>HBLALU5010B2</b> A: 5.08" (129.10) B: 1.75" (44.40)	<p><b>Blank End Fitting</b> For closing end of raceway.</p> 	Anodized Aluminum	<b>HBLALU5010B</b> A: 5.08" (129.10) B: 1.75" (44.40)

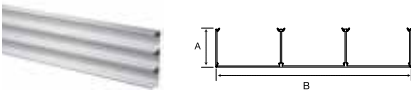
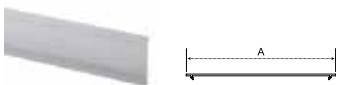
Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<p><b>Cover Clip</b> To cover seam where lengths of HBLALU5000 Raceway come together.</p> 	Stainless Steel	<b>HBLALU5006</b> A: 1.38" (34.92)	<p><b>Wire Clip</b> For holding conductors in place. Can be used for either HBLALU5000 or HBLALU7620 Raceway.</p> 	Anodized Aluminum	<b>HBLALU57WC</b> A: 1.00" (25.40)
	<p><b>Internal Corner Coupling</b> For butting two raceway sections to form an internal 90° turn in a raceway run.</p> 	Anodized Aluminum	<b>HBLALU5717A</b> A: 3.50" (88.90) B: 2.38" (60.30)	<p><b>Grounding Adapter</b> For connection of equipment grounding. #10-32 Locking screws included.</p> 	Galvanized Steel	<b>HBLALU5709</b> A: 3.37" (85.50) B: 2.00" (50.83)
<p><b>Couplings (Pair)</b> To join lengths of HBLALU5000 or HBLALU7620 base.</p> 	Aluminum	<b>HBLALU5701</b> A: 2.38" (60.30) B: 4.00" (101.80)				

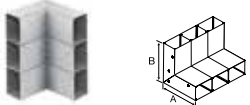
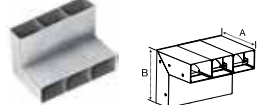
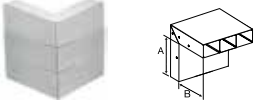

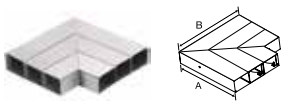
Note: \*HBLALU5701 couplings included.  
See page R-44 for cover plates.

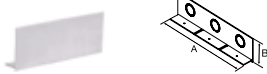
Dimensions in Inches (mm)

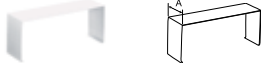






## HBLALU7620 Series

HBLALU7620 Series	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Three Channel Base</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 10 ft. (3m) lengths.  Assembled cover and base dimensions: W: 7.62" (193.55) H: 2.25" (57.15)	Anodized Aluminum	<b>HBLALU7620B10</b> A: 2.16" (54.86) B: 7.62" (193.55)		<b>Cover (Single Channel)</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 5 ft. (1.5m) lengths.	Anodized Aluminum	<b>HBLALUC57</b> A: 2.54" (64.52)
				<b>Cover (Two Channel)</b> Satin anodized finish. Packed 40 ft. (12.19m) per carton, 5 ft. (1.5m) lengths.	Anodized Aluminum	<b>HBLALU2C57</b> A: 5.08" (129.03)	

Elbow Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number		
	<b>Internal Elbow</b> For making a 90° internal turn in a raceway run.	Anodized Aluminum	<b>HBLALU7617*</b> A: 6.50" (165.10) B: 6.50" (165.10)		<b>Inverted Internal Elbow</b> For connecting a vertical run of HBLALU7620 with a horizontal run with its cover facing up.	Anodized Aluminum	<b>HBLALU7617N*</b> A: 6.50" (165.10) B: 5.98" (151.89)	
	<b>External Elbow</b> For making a 90° external turn in a raceway run.	Anodized Aluminum	<b>HBLALU7618*</b> A: 5.50" (139.70) B: 5.50" (139.70)		<b>Tee</b> For branch connections of two runs of HBLALU7620 Raceway.	Anodized Aluminum	<b>HBLALU7615*</b> A: 9.00" (228.60) B: 10.62" (269.80)	
<b>Flat Elbow</b> For making a 90° flat turn in a raceway run.	Anodized Aluminum	<b>HBLALU7611*</b> A: 11.54" (293.10) B: 11.54" (293.10)						

End Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Entrance End Fitting</b> For feeding raceway, has concentric ½ in. and ¾ in. trade size KOs.	Anodized Aluminum	<b>HBLALU7610B2</b> A: 7.62" (193.50) B: 2.31" (58.70)		<b>Blank End Fitting</b> For closing end of raceway.	Anodized Aluminum	<b>HBLALU7610B</b> A: 7.62" (193.50) B: 2.31" (58.70)

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number		
	<b>Cover Clip</b> To cover seam where lengths of HBLALU7620 Raceway come together.	Stainless Steel	<b>HBLALU7606</b> A: 1.38" (34.92)		<b>Wire Clip</b> For holding conductors in place. Can be used for either HBLALU5000 or HBLALU7620 Raceway.	Anodized Aluminum	<b>HBLALU57WC</b> A: 1.00" (25.40)	
	<b>Internal Corner Coupling</b> For butting two raceway sections to form an internal 90° turn in a raceway run.	Anodized Aluminum	<b>HBLALU5717A</b> A: 3.50" (88.90) B: 2.38" (60.30)		<b>Grounding Adapter</b> For connection of equipment grounding. #10-32 Locking screws included.	Galvanized Steel	<b>HBLALU5709</b> A: 3.37" (85.50) B: 2.00" (50.83)	
<b>Couplings (Pair)</b> To join lengths of HBLALU5000 or HBLALU7620 base.	Aluminum	<b>HBLALU5701</b> A: 2.38" (60.30) B: 4.00" (101.80)						

Note: \*HBLALU5701 couplings included.  
See page R-44 for cover plates.

Dimensions in Inches (mm)

## HBLALU5000 and HBLALU7620 Series

Cover Plates	Description	Color	Catalog Number	Description	Color	Catalog Number	
	<b>Duplex Receptacle Cover</b> For duplex receptacles and duplex communication frames shown on page R-45.	Anodized Aluminum	<b>HBLALU57DR</b> A: 2.54" (64.50) B: 12.00" (304.80)	<b>HBLALU57DRBM</b> (Base Mounted Device) A: 2.54" (64.50) B: 12.00" (304.80)	<b>Toggle Switch Cover</b> For single pole, two pole, three way or four way switches.	Anodized Aluminum	<b>HBLALU57N</b> A: 2.54" (64.50) B: 12.00" (304.80)
							<b>HBLALU57NBM</b> (Base Mounted Device) A: 2.54" (64.50) B: 12.00" (304.80)
	<b>Rectangular Style Line® Cover</b> For Style Line rectangular duplex receptacle, GFCI, surge device or rectangular communication frames shown on page R-45.	Anodized Aluminum	<b>HBLALU57G</b> A: 2.54" (64.50) B: 12.00" (304.80)	<b>HBLALU57GBM</b> (Base Mounted Device) A: 2.54" (64.50) B: 12.00" (304.80)	<b>Blank Cover</b> To cover 12 in. (305.00) section of raceway.	Anodized Aluminum	<b>HBLALU57BL</b> A: 2.54" (64.50) B: 12.00" (304.80)
	<b>Single Receptacle Cover</b> For single receptacle with face diameters of 1.38 in. to 1.39 in. (35.05 to 35.31).	Anodized Aluminum	<b>HBLALU57E</b> A: 2.54" (64.50) B: 12.00" (304.80)	<b>HBLALU57EBM</b> (Base Mounted Device) A: 2.54" (64.50) B: 12.00" (304.80)	<b>Single Receptacle Cover</b> For single receptacle with face diameters of 1.56 in. to 1.59 in. (39.62 to 40.39).	Anodized Aluminum	<b>HBLALU57F</b> A: 2.54" (64.50) B: 12.00" (304.80)
						<b>HBLALU57FBM</b> (Base Mounted Device) A: 2.54" (64.50) B: 12.00" (304.80)	
<b>Hubbell iSTATION Cover</b> For mounting Hubbell iSTATION modules. IMF1GY or IFFxxGY frames and plates on pages R-45 and R-46.	Anodized Aluminum	<b>HBLALU57LPB</b> A: 2.54" (64.50) B: 12.00" (304.80) C: 1.90 (48.26) D: 3.00" (76.20)		<b>Ortronics® Cover Plate</b> For two Ortronics TracJack® or one Series II® datacom insert. Both bezels included.	Anodized Aluminum	<b>HBLALU57ABRT</b> A: 2.54" (64.50) B: 12.00" (304.80)	
<b>2-Gang Raised Device Box</b> KP device plates only, found on page R-45.	Gray PVC	<b>HBLALU57KP2G</b> A: 5.08" (129.10) B: 7.64" (193.90)					



### Base Mounted Device Cover Design














No exposed screw holes. Receptacle is securely mounted to the raceway base rather than the cover.













Dimensions in Inches (mm)

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


















## Device Brackets, Plates and Frames

<b>1. Choose Device Mounting Bracket</b>	Description	Color	HBL4750 Series		HBL6750 Series
	Device Mounting Bracket for HBL4750 and HBL6750 Series Metal Raceway. Ivory metal raceway matches almond devices and plates.	Ivory Gray		<b>HBL4750IV</b> <b>HBL4750GY</b>	

<b>2. Choose 1-Gang "KP" Plates</b>	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Almond Gray	 <b>KP8AL</b> <b>KP8GY</b> Duplex	 <b>KP26AL</b> <b>KP26GY</b> Style Line®	 <b>KP1AL</b> <b>KP1GY</b> Toggle	 <b>KP7AL</b> <b>KP7GY</b> Receptacle (1.41 ID)	 <b>KP720AL</b> <b>KP720GY</b> Receptacle (1.60 ID)
	Almond Gray	 <b>KP14AL</b> <b>KP14GY</b> Blank	 <b>KP212AL</b> <b>KP212GY</b> Coax (2)	 <b>KP2140AL</b> <b>KP2140GY</b> Jack/Coax	 <b>KP2162AL</b> <b>KP2162GY</b> Modular Jacks (2)	 <b>KP2163AL</b> <b>KP2163GY</b> Modular Jacks (3)
Almond Gray	 <b>KPORTAL</b> <b>KPORTGY</b> Ortronics Series II® Data Module	 <b>KPPANAL</b> <b>KPPANGY</b> Panduit Mini-Com® Data Module	 <b>KPIMBZAL</b> <b>KPIMBZGY</b> 3-Unit iSTATION (Accepts all Hubbell iSTATION Modules located in Network Wiring section).			

<b>Comm. "IFP" Plates &amp; Frames</b>	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Almond Gray	 <b>IFP126AL</b> — Style Line®	 <b>ISF2AL</b> <b>ISF2GY</b> Style Line® 2-Port	 <b>ISF3AL</b> <b>ISF3GY</b> Style Line® 3-Port	 <b>ISF4AL</b> <b>ISF4GY</b> Style Line® 4-Port	 <b>ISF6AL</b> <b>ISF6GY</b> Style Line® 6-Port
	Almond Gray	 <b>IFP18AL</b> — Duplex	 <b>BR106AL</b> <b>BR106G</b> Duplex 2-Port	 <b>Q106AL</b> <b>Q106G</b> Duplex 4-Port		
Almond Gray	 <b>IFP12AL</b> <b>IFP12GY</b> Flush 2-Port	 <b>IFP13AL</b> <b>IFP13GY</b> Flush 3-Port	 <b>IFP14AL</b> <b>IFP14GY</b> Flush 4-Port	 <b>IFP16AL</b> <b>IFP16GY</b> Flush 6-Port		

Note: Ivory metal raceway matches almond devices and plates. For HBL3000 series raceway applications, catalog number HBL3051LEIV/GY must be used with plates and devices. See page R-46 or section W for additional information on datacom products.

<b>Painted Steel Plates</b>	Color	1-Gang	2-Gang	3-Gang	4-Gang	5-Gang	6-Gang
	Almond Gray	 <b>SP1AL</b> <b>SP1G</b> Toggle	 <b>SP2AL</b> <b>SP2G</b> Toggle	 <b>SP3AL</b> Toggle	 <b>SP4AL</b> Toggle	 <b>SP5AL</b> Toggle	 <b>SP6AL</b> Toggle
	Almond Gray	 <b>SP8AL</b> <b>SP8G</b> Duplex	 <b>SP82AL</b> <b>SP82G</b> Duplex	 <b>SP83AL</b> Duplex	— — Duplex	— — Duplex	— — Duplex
	Almond Gray	 <b>PHPS1AL</b> <b>PHPS1G</b> Style Line®	 <b>PHPS2AL</b> <b>PHPS2G</b> Style Line®	 <b>PHPS3AL</b> Style Line®	 <b>PHPS4AL</b> Style Line®	 <b>PHPS5AL</b> Style Line®	 <b>PHPS6AL</b> Style Line®
	Almond Gray	 <b>SP7AL</b> <b>SP7G</b> Single recept. (1.41" ID)	 <b>SP18AL</b> <b>SP18G</b> Combination	 <b>SP28AL</b> <b>SP28G</b> Combination	 <b>PJS126AL</b> <b>PJS126G</b>	 — <b>PJS226G</b>	
Color	1-Gang	2-Gang	3-Gang	1-Gang	2-Gang	3-Gang	
Almond Gray	 <b>SP14BAL</b> <b>SP14BG</b> Blank, Box Mount	 <b>SP24BAL</b> <b>SP24BG</b> Blank, Box Mount	 <b>SP34BAL</b> Blank, Box Mount	 <b>SP14AL</b> <b>SP14G</b> Blank, Strap Mount	 <b>SP24AL</b> <b>SP24G</b> Blank, Strap Mount	 <b>SP34AL</b> Blank, Strap Mount	

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## Frame Modules and Modular Connector Fittings

<b>1. Choose Plate Frame</b>	Description	Color	HBL4750 Series	HBL6750 Series
	Front loading plate will accept any modules in three unit combinations. Angled fixtures to be used in bottom opening only. Use KPIMBZAL/GY plate with modules for HBL4750 and HBL6750 Series device mounting bracket located on page R-45. See section W for additional Hubbell iSTATION modules and datacom products. Ivory metal raceway matches almond devices and plates.	Office White	<b>IMF1AL</b> <b>IMF1GY</b>	<b>IMF2AL</b> <b>IMF2GY</b>

*Note: Each gang accepts 3 module units.*

<b>2. Choose Modules</b>	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Almond Gray	<b>IMB05AL</b> <b>IMB05GY</b> Blank Module .5 Unit	<b>IMB1AL</b> <b>IMB1GY</b> Blank Module 1 Unit	<b>IMB15AL</b> <b>IMB15GY</b> Blank Module 1.5 Unit	<b>IM1K1AL</b> <b>IM1K1GY</b> Modular Flat 1 Unit	<b>IM2K1AL</b> <b>IM2K1GY</b> Modular Flat 1 Unit
	Almond Gray	<b>IM1KA15AL</b> <b>IM1KA15GY</b> Modular Angled 1.5 Unit	<b>IM2KA15AL</b> <b>IM2KA15GY</b> Modular Angled 1.5 Unit	<b>IM1SCA15AL</b> <b>IM1SCA15GY</b> SC 1 Duplex Angled, 1.5 Unit	<b>IM2SCA2AL</b> <b>IM2SCA2GY</b> SC 2 Duplex Angled, 2 Unit	<b>IM1IA15AL</b> <b>IM1IA15GY</b> Modular Recessed 1.5 Unit
	Almond Gray	<b>IM2IA15AL</b> <b>IM2IA15GY</b> Modular Recessed 1.5 Unit	<b>Keystone Opening</b> Hole size for mounting all Hubbell Jacks.			 A: .580" (14.73) B: .760" (19.30)

Modular connectors to be used with any plate with a standard modular opening. Not recommended for use with KP plates. For KP applications use KPIMBZAL/GY bezel and appropriate Hubbell iSTATION modules located in the section W. Use appropriate Hubbell iSTATION modules for SC fiber adapters. See section W for additional modular connectors. Ivory metal raceway matches almond devices and plates.

<b>Modular Connector Fittings</b>	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Almond Gray	<b>SFFGAL</b> <b>SFFGGY</b> F-Type Coupler Gold	<b>SFFALX</b> <b>SFFGX</b> F-Type Coupler Nickel	<b>SFBAL</b> <b>SFBGY</b> BNC Connector	<b>SF35SJAL</b> <b>SF35SJGY</b> 3.5mm Stereo Jacks	<b>SFBAL10</b> <b>SFBG10</b> Blank (10 Pack)
	Almond Gray	<b>SFRCRFFAL</b> <b>SFRCRFFGY</b> RCA Gold Pass-through F/F Coupler Red Insulator	<b>SFRCWFFAL</b> <b>SFRCWFFGY</b> RCA Gold Pass-through F/F Coupler White Insulator	<b>SFRCYFFAL</b> <b>SFRCYFFGY</b> RCA Gold Pass-through F/F Coupler Yellow Insulator	<b>SFSV110AL</b> <b>SFSV110GY</b> S-Video 110	<b>SFSVAL</b> <b>SFSVGY</b> S-Video F/F Coupler
	Black housing only	<b>SFRC110R</b> RCA 110 Punchdown Red Insulator	<b>SFRC110W</b> RCA 110 Punchdown White Insulator	<b>SFRC110Y</b> RCA 110 Punchdown Yellow Insulator	<b>SFSPGBK*</b> <b>SFSPGR**</b> Speaker Post Connector	

Note: \*Office white housing with black ring color.  
\*\*Office white housing with red ring color.

<b>Xcelerator Modular Jacks</b>	Color	Catalog Number	Catalog Number	Catalog Number
	Almond Gray	<b>HXJ5EAL</b> <b>HXJ5EGY</b> Cat. 5e, T568A, T568B, RJ45	<b>HXJ6AL</b> <b>HXJ6GY</b> Cat. 6, T568A, T568B, RJ45	<b>HXJUAL</b> <b>HXJUGY</b> 6 Position USOC, RJ25

Note: Ivory metal raceway matches almond devices and plates.

**Jack Color Options** (Replace AL or GY suffix with additional colors below)

**AL**=Almond **BK**=Black **B**=Blue **EI**=Elec. Ivory **GY**=Gray **GN**=Green **LA**=Lt. Almond **OR**=Orange **OW**=Off. White **R**=Red **W**=White **Y**=Yellow

Dimensions in Inches (mm)

## Wire Fill Capacity Chart and Technical Information

Metal and Aluminum Raceway Wire Fill Capacities																
Series	Channel Area (sq. in.)	Power (THHN/T90 Nylon)			Voice		Data (Copper Cables)					Data (Multimode Fiber Optic Cables)				
		14 AWG	12 AWG	10 AWG	4-Pair	25-Pair	Type RG59U	Cat. 5e	Cat. 6	Cat. 6A	Cat. 6 STP	(2) or (4) Fiber Round Cable	Fiber Optic Jumpers	Fiber Optic Zip Cord		
		Wire O.D. (in):	0.111	0.13	0.164	0.19	0.41	0.242	0.21	0.25	0.35	0.29	0.19	0.118	.12 X .24	
Wire Area (sq. in.):	0.0097	0.0133	0.0211	0.0283	0.1320	0.0460	0.0346	0.0491	0.0962	0.0660	0.0283	0.0109	0.0288			
Wire Fill Capacity	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%			
Metal Raceway	HBL500	0.22	7	5	3	2	0	1	2	1	1	1	2	8	2	
	HBL700	0.26	10	7	4	3	0	2	3	2	1	1	3	8	3	
	HBL750	0.40	12	9	5	6	1	3	5	3	2	2	6	15	6	
	HBL2000	0.89	7	7	0	13	3	8	10	7	4	5	13	33	12	
	HBL2000A	0.86	35	26	16	11	2	7	9	7	4	5	13	33	12	
	HBL2400	1.39	57	41	26	19	4	12	16	11	5	8	19	51	19	
	HBL2400D	Channel- A	0.86	26	19	11	12	2	7	9	7	3	5	12	31	11
		Channel- B	0.37	11	9	6	5	1	3	4	3	1	2	5	13	5
	HBL3000	3.70	152	111	70	52	11	32	43	30	15	22	52	136	51	
	HBL4750	No Barriers	7.20	296	216	136	102	22	63	83	59	30	44	102	264	100
		Barrier Centered Ch. A	3.10	127	93	58	44	9	27	36	25	13	19	44	114	43
	Barrier Centered Ch. B		3.30	127	93	58	47	10	29	38	27	14	20	47	121	46
	Barrier Offset Ch. A	2.10	86	63	39	30	6	18	24	17	9	13	30	77	29	
		Barrier Offset Ch. B	4.30	176	129	81	61	13	37	50	35	18	26	61	158	60
	HBL6750	No Barriers	13.77	566	412	259	195	42	120	159	112	57	83	195	505	191
Barrier Offset 1/3 Ch. A	4.59	189	138	86	65	14	40	53	37	19	28	65	168	64		
	Barrier Offset 2/3 Ch. B	9.18	379	278	173	130	28	80	106	75	38	56	130	337	128	
Aluminum Raceway	HBLALU2000	1.20	49	36	22	16	3	10	13	9	4	7	16	44	16	
	HBLALU3800	5.80	214	156	98	82	18	50	67	47	24	35	82	213	81	
	HBLALU4800	Center Barrier/ Both Channels	11.60	428	312	196	164	35	101	134	95	48	70	164	426	161
		Center Barrier/ 1 Channel	5.80	214	156	98	82	18	50	67	47	24	35	82	213	81
	HBLALU5000	Center Barrier/ Both Channels	7.60	312	228	142	106	22	64	86	60	30	46	106	278	104
		Center Barrier/ 1 Channel	3.80	156	114	71	53	11	32	43	30	15	23	53	139	52
	HBLALU7620	2 Barriers with 3 Equal Channels/ Total	15.00	618	450	282	210	45	129	171	120	60	90	210	549	207
		2 Barriers with 3 Equal Channels/ 1 Channel	5.00	206	150	94	70	15	43	57	40	20	30	70	183	69

Note: Pathway (Raceway) fill shall be 40% maximum. Raceway fittings and outlets/receptacles reduce the cross section of the raceway system, thus reducing overall cable fill capacity.

### Physical Properties

Material Galvanized Steel or Anodized Aluminum

### Metal PlugTrak Specifications

Receptacle Rating NEMA 5-15R and NEMA 5-20R  
 Wire #12 AWG Stranded Copper  
 Receptacle Face Thermoplastic

### Codes/Standards

TIA/EIA 569B  
 UL Standard UL 5  
 Listings E253976 /E253830 /E253833  
 CSA Standard C22.2 no. 62  
 Certification LR87514



# Metal and Aluminum Raceway

## Cross Reference

Hubbell Catalog Number	Wiremold® Catalog Number
<b>HBL500 Series</b>	<b>500 Series</b>
HBL502B	502
HBL605CUT	605
HBL600B	600B
HBL605K	605K
HBL500TFIV	N/A
HBL50010IV	V500
HBL504IV	V504
HBL506IV	V506
HBL511IV	V511
HBL512IV	V512
HBL517IV	V517
HBL518IV	V518
<b>HBL750 Series</b>	<b>700 Series</b>
HBL607CUT	607
HBL7502B	702
HBL607K	607K
HBL750TFIV	N/A
HBL75010IV	V700
HBL7504IV	V704
HBL7506IV	V706
HBL711IVA	V711
HBL712IV	V712
HBL717IVA	V717
HBL718IVA	V718
<b>HBL500/HBL750 Series</b>	<b>500/700 Series</b>
HBL5701C	5701
HBL5709	5709
HBL5780	5780
HBL5781	5781
HBL5782C	5782
HBL5791	5791
HBL5709GC	5709GC
HBL5781A	5781A
HBL5782A	5782A
HBL5790B	5790B
HBL5752RA	R5752
HBL5753RA	R5753
HBL5700FIVA	V5700F
HBL5703IV	V5703
HBL5711LHIVA	V5711LH
HBL5711RHIVA	V5711RH
HBL5715IVA	V5715
HBL5719IVA	V5719
HBL57242IVA	V57242
HBL5731IV	V5731
HBL5733IVA	V5733
HBL5735IVA	V5735
HBL5736IV	V5736
HBL5737IVA	V5737
HBL5737AIVA	V5737A
HBL5738IVA	V5738
HBL5738AIVA	V5738A
HBL5738AFIVA	V5738AF
HBL5739IVA	V5739
HBL5739AIVA	V5739A
HBL5744IVA	V5744
HBL57442IVA	V5744-2
HBL57443IVA	V5744-3
HBL5744SIVA	V5744S
HBL5744S2IVA	V5744S-2
HBL5744S3IVA	V5744S-3
HBL5745IVA	V5745
HBL5747IVA	V5747
HBL57472IVA	V5747-2
HBL57473IVA	V5747-3
HBL5748IVA	V5748

Hubbell Catalog Number	Wiremold® Catalog Number
HBL57482IVA	V5748-2
HBL57483IVA	V5748-3
HBL57484IVA	V5748-4
HBL57485IVA	V5748-5
HBL57486IVA	V5748-6
HBL5751IVA	V5751
HBL57512IVA	V5751-2
HBL57513IVA	V5751-3
HBL5751AIVA	V5751A
HBL5752IVA	V5752
HBL5753IVA	V5753
HBL5760IVA	V5760
HBL5783IVA	V5783
HBL5784IVA	V5784
HBL5785IVA	V5785
HBL5786IVA	V5786
HBL5786AIVA	N/A
HBL5711BRIVA	N/A
HBL5715BRIVA	N/A
HBL5717BRIVA	N/A
HBL5718BRIVA	N/A
<b>HBL2000 Series</b>	<b>2000 Series</b>
HBL620C	620
HBL2001C	2001
HBL2003SC	2003
HBL2009GC	2009
HBL2000WC	2000WC
HBL2000WCA	N/A
HBL2017TC	2017TC
HBL620BCK	620BCK
HBL2000B5GY	G2000B-5
HBL2000BCGY	G2000BC
HBL2000BCAGY	N/A
HBL2000CGY	G2000C
HBL2000CAGY	G2100C
HBL2006GY	G2006
HBL2010A2GY	G2010A2
HBL2010A3GY	G2010A3
HBL2010BGY	G2010B
HBL2011GY	G2011
HBL2011BRGY	N/A
HBL2015GY	G2015
HBL2015BRGY	N/A
HBL2017BRGY	N/A
HBL2018BRGY	N/A
HBL2018CGY	G2018C
HBL2048GY	G2048
HBL20482GY	G2048-2
HBL2051HGY	G2051H
HBL2000TFIV	N/A
HBL2000TFGY	N/A
HBL2000B5IV	V2000B-5
HBL2000BCIV	V2000BC
HBL2000BCAIV	N/A
HBL2000CIV	V2000C
HBL2000CAIV	V2100C
HBL2006IV	V2006
HBL2010A2IV	V2010A2
HBL2010A3IV	V2010A3
HBL2010BIV	V2010B
HBL2011IV	V2011
HBL2011BRIV	N/A
HBL2015IV	V2015
HBL2015BRIV	N/A
HBL2017BRIV	N/A
HBL2018BRIV	N/A
HBL2018CIV	V2018C

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# Metal and Aluminum Raceway

## Cross Reference

Hubbell Catalog Number	Wiremold® Catalog Number
HBL2048IV	V2048
HBL20482IV	V2048-2
HBL2051HIV	V2051H
HBL2089IV	V2089
HBL2089EIV	V2089E
<b>HBL2400/HBL2400D</b>	<b>2400/2400D</b>
<b>Series</b>	<b>Series</b>
HBL624CUT	624
HBL2401C	2401
HBL2409GC	2409
HBL2400WC	2400WC
HBL2401DC	2401D
HBL624BCK	624BCK
HBL24DRK	N/A
HBL24SRK	N/A
HBL24106DRK	N/A
HBL24106RRK	N/A
HBL4724REDIV	N/A
HBL2420REDIV	N/A
HBL2400TFIV	N/A
HBL2400DTFIV	N/A
HBL2400BIV	V2400B
HBL2400B10IV	V2400B-10
HBL2400BCIV	V2400BC
HBL2400BDIV	V2400BD
HBL2400CIV	V2400C
HBL2406IV	V2406
HBL2410AIV	V2410A
HBL2410BIV	V2410B
HBL2410BDIV	V2410BD
HBL2410CIV	V2410C
HBL2410DFOIV	V2410DFO
HBL2410FCIV	V2410FC
HBL2411DFOIV	V2411DFO
HBL2415DFOIV	V2411DFO
HBL2411IV	V2411FO
HBL2415IV	V2415FO
HBL2417DFOIV	V2417DFO
HBL2417IV	V2417FO
HBL2418DFOIV	V2418DFO
HBL2418IV	V2418FO
HBL2426IV	V2426
HBL2444IV	V2444
HBL24442IV	V2444-2
HBL2444DIV	V2444D
HBL2444D2AIV	V2444D-2A
HBL2448IV	V2448
HBL24482IV	V2448-2
HBL2451HIV	V2451H
HBL2475DBRIV	V2475D
HBL2489IV	V2489

<b>HBL3000 Series</b>	<b>3000 Series</b>
HBL630B	630B
HBL630BDK	630BDK
HBL630C	630C
HBL630CDK	630CDK
HBL3000BGY	G3000B
HBL3000C075GY	G3000C075
HBL3000C195GY	G3000C195
HBL3000CEGY	G3000CE
HBL3000WCGY	G3000WC
HBL3001GY	G3001
HBL3001AGY	G3001A
HBL3003GY	G3003
HBL3006EGY	G3006E

Hubbell Catalog Number	Wiremold® Catalog Number
HBL3007CGY	G3007C
HBL3010AEGY	G3010AE
HBL3010BGY	G3010B
HBL3010CGY	G3010C
HBL3011EGY	G3011E
HBL3014CGY	G3014C
HBL3015EGY	G3015E
HBL3017TCEGY	G3017TCE
HBL3018AEGY	G3018AE
HBL3027AEGY	G3027AE
HBL3028GY	G3028
HBL3033JEGY	G3033JE
HBL3036HEGY	G3036HE
HBL3040CEGY	G3040CE
HBL3043BEGY	G3043BE
HBL30442GY	G3044-2
HBL3046BEGY	G3046BE
HBL3046H2GY	G3046H-2
HBL3048RGY	G3048R
HBL3051LEGY	G3051LE
HBL3082GY	G3082
HBL3086GY	G3086
HBL3200REDIV	N/A
HBL3200REDGY	N/A
HBL3000TFIV	N/A
HBL3000TFGY	N/A
HBL3000BIV	V3000B
HBL3000C075IV	V3000C075
HBL3000C195IV	V3000C195
HBL3000CEIV	V3000CE
HBL3003IV	V3003
HBL3006EIV	V3006E
HBL3010AEIV	V3010AE
HBL3010BIV	V3010B
HBL3010CIV	V3010C
HBL3011EIV	V3011E
HBL3014CIV	V3014C
HBL3015EIV	V3015E
HBL3017TCEIV	V3017TCE
HBL3018AEIV	V3018AE
HBL3027AEIV	V3027AE
HBL3028IV	V3028
HBL3033JEIV	V3033JE
HBL3036HEIV	V3036HE
HBL3040CEIV	V3040CE
HBL3043BEIV	V3043BE
HBL30442IV	V3044-2
HBL3046BEIV	V3046BE
HBL3046H2IV	V3046H-2
HBL3048RIV	V3048R
HBL3051LEIV	V3051LE
HBL3086IV	V3086

<b>HBL4750 Series</b>	<b>4000 Series</b>
HBL4751AC	4001A
HBL4750IV	V4050
HBL640C	640C
HBL4750B10GY	G4000B-10
HBL4750C075GY	G4000C075
HBL4750C195GY	G4000C195
HBL640B	640B
HBL4747RXIV	V4047RX
HBL4747RFIV	V4047RF
HBL4747C1GY	G4047C-1
HBL4747BXGY	G4047BX
HBL4747RXGY	G4047RX
HBL4747RFGY	G4047RF
HBL4747JXGY	G4047JX

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# Metal and Aluminum Raceway

## Cross Reference

Hubbell Catalog Number	Wiremold® Catalog Number
HBL4747C2GY	G4047C-2
HBL4715DFOGY	G4015DFO
HBL4717NGY	G4017N
HBL4746H2GY	G4046H-2
HBL4718DFOGY	G4018FO
HBL47472BBFFGY	G4047-2BBFF
HBL47472BBBGGY	G4047-2BBBB
HBL47472BBSSGY	G4047-2BBSS
HBL47472BBXXGY	G4047-2BBXX
HBL47472BBTTGY	G4047-2BBTT
HBL4747AXGY	G4047AX
HBL47472RRXXGY	G4047-2RRXX
HBL4747BFGY	G4047BF
HBL4747BBGY	G4047BB
HBL4747BRGY	N/A
HBL4747BRIV	N/A
HBL4747BTGY	G4047BT
HBL4747BSGY	G4047BS
HBL4774AGY	G4074A
HBL4750GY	G4050
HBL47472RRXXIV	V4047-2RRXX
HBL47472BBXXIV	V4047-2BBXX
HBL4747BBIV	V4047BB
HBL4747AXIV	V4047AX
HBL4747BFIV	V4047BF
HBL4747BTIV	V4047BT
HBL4747BSIV	V4047BS
HBL4747C1IV	V4047C-1
HBL4747BXIV	V4047BX
HBL4747JXIV	V4047JX
HBL4747C2IV	V4047C-2
HBL4750CIV	V4000C
HBL4750B10IV	V4000B-10
HBL4750C315IV	V4000C315
HBL4750C195IV	V4000C195
HBL4711DFOIV	V4011FO
HBL4711IV	V4011
HBL4710DFOIV	V4010DFO
HBL4710IV	V4010
HBL4710BIV	V4010B
HBL4756AIV	V4006
HBL4714AIV	V4014A
HBL4712TXIV	V4012TX
HBL4750C135IV	V4000C135
HBL4750C075IV	V4000C075
HBL4717DFOIV	V4017FO
HBL4717IV	V4017
HBL4715DFOIV	V4015DFO
HBL4715IV	V4015
HBL4718DFOIV	V4018FO
HBL4718IV	V4018
HBL4717NIV	V4017N
HBL47472BBBIV	V4047-2BBBB
HBL4746H2IV	V4046H-2
HBL47472BBTTIV	V4047-2BBTT
HBL47472BBSSIV	V4047-2BBSS
HBL4747CVMGY	G6007C-1
HBL4786AGY	G4086A
HBL4750TFIV	N/A
HBL4747CVM2GY	G6007C-2
HBL4750BP	N/A
HBL4750TFGY	N/A
HBL4756AGY	G4006
HBL4751DA	4001DA
HBL640BDK	640BDK
HBL640CDK	640CDK
HBL4750CGY	G4000C
HBL4750C135GY	G4000C135
HBL4750C315GY	G4000C315

Hubbell Catalog Number	Wiremold® Catalog Number
HBL4750DGY	G4000D
HBL4750WCGY	G4000WC
HBL4710BGY	G4010B
HBL4710DFOGY	G4010DFO
HBL4710GY	G4010
HBL4711DFOGY	G4011FO
HBL4711GY	G4011
HBL4712TXGY	G4012TX
HBL4714AGY	G4014A
HBL4717DFOGY	G4017FO
HBL4717GY	G4017
HBL4717TCAGY	G4017TCA
HBL4774AIV	V4074A
HBL4786AIV	V4086A
HBL4747CVMIV	V6007C-1
HBL4747CVM2IV	V6007C-2
<hr/>	
HBL6750 Series	6000 Series
HBL6751A	6001A
HBL660C	640C
HBL660CDK	640CDK
HBL660B	660B
HBL660BDK	660BDK
HBL6718DFOGY	G4018FO
HBL6718GY	G6017TX
HBL6746HHHGY	G4046H-2 (4000 Series 2-Gang)
HBL67473BBBBBGGY	G4047-2BBBB (4000 Series 2-Gang)
HBL67473BBBBFFGY	G4047-2BBFF (4000 Series 2-Gang)
HBL67473BBBBSSGY	G4047-2BBSS (4000 Series 2-Gang)
HBL67473BBBBTTGY	G4047-2BBTT (4000 Series 2-Gang)
HBL67473BBBBXXGY	G4047-2BBXX (4000 Series 2-Gang)
HBL6747AXXGY	G4047AX (4000 Series 2-Gang)
HBL6747BBBGGY	G4047BB (4000 Series 2-Gang)
HBL6747BBFFGY	G4047BF (4000 Series 2-Gang)
HBL6747BBSSGY	G4047BS (4000 Series 2-Gang)
HBL6747BBTGY	G4047BT (4000 Series 2-Gang)
HBL6747BXXGY	G4047BX (4000 Series 2-Gang)
HBL6747C1GY	V4047C-1 (4000 Series 1-Gang Overlapping)
HBL6747C2GY	V4047C-2 (4000 Series 2-Gang Overlapping)
HBL6747JXXGY	G4047JX (4000 Series 2-Gang)
HBL6747RRFGY	G4047RF (4000 Series 2-Gang)
HBL6747RXXGY	G4047RX (4000 Series 2-Gang)
HBL67473RRRRXXGY	G4047-2RRXX
HBL6750GY	G4050
HBL6750B10GY	G6000B-10
HBL6750CGY	G6000C
HBL6750DAGY	G6000DA
HBL6750WCGY	G6000WC
HBL6751DAGY	G6001DA
HBL6756AGY	G6006
HBL6710BGY	G6010B
HBL6711DFOGY	G6011TX
HBL6711GY	G6011TX
HBL6712TXGY	G6012TX
HBL6714AGY	G6014A
HBL6717DFOGY	G6017TX
HBL6717GY	G6017TX
HBL6774AGY	G6074A
HBL6786GY	G6086
HBL6750C075IV	N/A
HBL6750C075GY	N/A
HBL6750C135IV	N/A
HBL6750C135GY	N/A
HBL6750C195IV	N/A
HBL6750C195GY	N/A
HBL6750C315IV	N/A
HBL6750C315GY	N/A
HBL6715DFOIV	N/A

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# Metal and Aluminum Raceway

## Cross Reference

Hubbell Catalog Number	Wiremold® Catalog Number
HBL6715IV	N/A
HBL6715DFOGY	N/A
HBL6715GY	N/A
HBL6717NIV	N/A
HBL6717NGY	N/A
HBL6717TCAGY	N/A
HBL6710DFOIV	N/A
HBL6710DFOGY	N/A
HBL6750TFIV	N/A
HBL6750TFGY	N/A
HBL6718DFOIV	V4018FO
HBL6746HHIV	V4046H-2 (4000 Series 2-Gang)
HBL67473BBBBXXGY	V4047-2BBBB (4000 Series 2-Gang)
HBL67473BBBBFFIV	V4047-2BBFF (4000 Series 2-Gang)
HBL67473BBBBSSIV	V4047-2BBSS (4000 Series 2-Gang)
HBL67473BBBBTTIV	V4047-2BBTT (4000 Series 2-Gang)
HBL67473BBBBXXIV	V4047-2BBXX (4000 Series 2-Gang)
HBL6747AXXIV	V4047AX (4000 Series 2-Gang)
HBL6747BBBIV	V4047BB (4000 Series 2-Gang)
HBL6747BBFIV	V4047BF (4000 Series 2-Gang)
HBL6747BBSIV	V4047BS (4000 Series 2-Gang)
HBL6747BBTIV	V4047BT (4000 Series 2-Gang)
HBL6747BXXIV	V4047BX (4000 Series 2-Gang)
HBL6747C1IV	V4047C-1 (4000 Series 1-Gang Overlapping)
HBL6747C2IV	V4047C-2 (4000 Series 2-Gang Overlapping)
HBL6747JXXIV	V4047JX (4000 Series 2-Gang)
HBL6747RRFIV	V4047RF (4000 Series 2-Gang)
HBL6747RXXIV	V4047RX (4000 Series 2-Gang)
HBL67473RRRRXXIV	V4047-2RRRX
HBL6750IV	V4050
HBL6750B10IV	V6000B-10
HBL6750CIV	V6000C
HBL6756AIV	V6006
HBL6710BIV	V6010B
HBL6711DFOIV	V6011TX
HBL6711IV	V6011TX
HBL6712TXIV	V6012TX
HBL6714AIV	V6014A
HBL6774AIV	V6074A
HBL6786IV	V6086

Metal PlugTrak®	Metal Plugmold®
HBL20C215IV	V20-C2
HBL20C215GY	G20-C2
HBL20C315IV	N/A
HBL20C315GY	N/A
HBL20GB306GY	G20GB306
HBL20IG306GY	G20IG306
HBL20GB506GY	G20GB506
HBL20GB512GY	G20GB512
HBL20GB606GY	G20GB606
HBL20GB609GY	G20GB609
HBL20GB612GY	G20GB612
HBL20GB618GY	G20GB618
HBL20GBA512GY	G20GBA512
HBL20GBA609GY	G20GBA609
HBL20GBA612GY	G20GBA612
HBL20GBA618GY	G20GBA618
HBL20IG512GY	G20IG512
HBL20IG606GY	G20IG606
HBL24GB306GY	G24GB306
HBL24GB506GY	G24GB506
HBL24GB512GY	G24GB512
HBL24GBA512GY	G24GBA512
HBL24GB606GY	G24GB606
HBL24GB612GY	G24GB612
HBL24GB618GY	G24GB618
HBL24GBA612GY	G24GBA612

Hubbell Catalog Number	Wiremold® Catalog Number
HBL24GBA618GY	G24GBA618
HBL20GB306IV	V20GB306
HBL20IG306IV	V20IG306
HBL20GB506IV	V20GB506
HBL20GB512IV	V20GB512
HBL20GB606IV	V20GB606
HBL20GB609IV	V20GB609
HBL20GB612IV	V20GB612
HBL20GB618IV	V20GB618
HBL20GBA512IV	V20GBA512
HBL20GBA609IV	V20GBA609
HBL20GBA612IV	V20GBA612
HBL20GBA618IV	V20GBA618
HBL20IG512IV	V20IG512
HBL20IG606IV	V20IG606
HBL24GB306IV	V24GB306
HBL24GB506IV	V24GB506
HBL24GB512IV	V24GB512
HBL24GBA512IV	V24GBA512
HBL24GB606IV	V24GB606
HBL24GB612IV	V24GB612
HBL24GB618IV	V24GB618
HBL24GBA612IV	V24GBA612
HBL24GBA618IV	V24GBA618

HBLALU2000 Series	ALA2000 Series
HBLALU2000B10	AL2000B-10
HBLALU2000B5	AL2000B-5
HBLALU2000C5	AL2000C-5
HBLALU2000WC	AL2000WC
HBLALU2001	AL2001
HBLALU2003	AL2003
HBLALU2006	AL2006
HBLALU2009	AL2009
HBLALU2010A	AL2010A
HBLALU2010B	AL2010B
HBLALU2011	AL2011
HBLALU2015	AL2015
HBLALU2017	AL2017
HBLALU2018	AL2018
HBLALU2038	AL2038
HBLALU2040A	AL2040A
HBLALU2043	AL2043
HBLALU2044	AL2044
HBLALU20442	AL2044-2
HBLALU2047	AL2047
HBLALU20472	AL2047-2
HBLALU2051H	AL2051H

Aluminum PlugTrak®	Aluminum Plugmold®
HBLALU20GB306	AL20GB306
HBLALU20GB506	AL20GB506
HBLALU20GB512	AL20GB512
HBLALU20GB606	AL20GB606
HBLALU20GB612	AL20GB612
HBLALU20GB618	AL20GB618
HBLALU20GBA606	AL20GBA606
HBLALU20GBA612	AL20GBA612
HBLALU20GBA618	AL20GBA618
HBLALU20IG306	AL20IG306
HBLALU20IG506	AL20IG506
HBLALU20IG606	AL20IG606
HBLALU24GB306	N/A
HBLALU24IG306	N/A
HBLALU24GB506	N/A
HBLALU24GB512	N/A
HBLALU24IG506	N/A
HBLALU24GB606	N/A

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# Metal and Aluminum Raceway

## Cross Reference

Hubbell Catalog Number	Wiremold® Catalog Number
HBLALU24GB612	N/A
HBLALU24GB618	N/A
HBLALU24GBA606	N/A
HBLALU24GBA612	N/A
HBLALU24GBA618	N/A
HBLALU24IG606	N/A

Hubbell Catalog Number	Wiremold® Catalog Number
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HBLALU3800 Series	ALA3800 Series
HBLALU3800B10	ALA3800B-10
HBLALU3806	ALA3806
HBLALU3810B	ALA3810B
HBLALU3810B1	ALA3810B1
HBLALU3811	ALA3811
HBLALU3815	ALA3815
HBLALU3817	ALA3817
HBLALU3817N	ALA3817N
HBLALU3818	ALA3818
HBLALUC5	ALAC-5
HBLALUWC	ALAWC

HBLALU4800 Series	ALA4800 Series
HBLALU01	ALA01
HBLALU09	ALA09
HBLALU17A	ALA17A
HBLALU4800B10	ALA4800B-10
HBLALU4806	ALA4806
HBLALU4810B	ALA4810B
HBLALU4810B2	ALA4810B2
HBLALU4811	ALA4811
HBLALU4815	ALA4815
HBLALU4817	ALA4817
HBLALU4817N	ALA4817N
HBLALU4818	ALA4818
HBLALUABRT	ALA-ABRT
HBLALUBL	ALA-BL
HBLALUDR	ALA-DR
HBLALUE	ALA-E
HBLALUF	ALA-F
HBLALUG	ALA-G
HBLALUJ	ALA-J
HBLALUN	ALA-N
HBLALULPB	N/A

Touch-Up Paint	Touch-Up Paint
HBLGWEP	GWE-S
HBLIWEP	IWE-S

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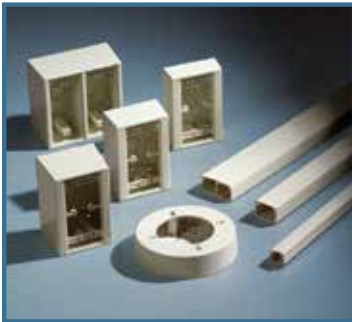
# Non-Metallic Raceway

## Products at a Glance



### Hubbell PolyTrak® Non-Metallic Surface Raceway

- PolyTrak® Non-Metallic Surface Raceway is a complete system with raceway, fittings, boxes and devices
- Sizes range from single channel PremiseTrak® to three channel Super BaseTrak® for all types of surface raceway requirements
- Single and two channel latching raceways are dual-rated for both power and data applications, reducing inventory requirements
- UL Listed and CSA Certified to 600 volts
- Office white color



### One Box, Three Systems

- Boxes have three cut-aways that can be utilized with WallTrak®, LANTrak and PremiseTrak (Latching) systems
- Reduces inventory requirements
- Eliminates need to order three separate boxes
- Boxes available in low, standard and deep profiles.
- Two-gang divided box available for power, data, voice, audio and video applications
- Boxes utilize Hubbell KP plates or Hubbell iSTATION Modules and Bezels



### Flush or Full Capacity Boxes

- Super BaseTrak® and BaseTrak® Raceway offer multiple solutions for box installation
- Super BaseTrak® in-line three-gang box allows maximum capacity in a flush design
- Super BaseTrak® and BaseTrak® available in single, two and three-gang full capacity boxes
- Two and three channel BaseTrak® (PB2 and PB3) available with one and two-gang in-line boxes
- Full capacity in-line boxes eliminate the need to de-rate the wire fill capacity due to the intrusion of devices into the raceway channel



### Non-Metallic PlugTrak®

- Available as hard wired multi-outlet assembly or relocatable power tap
- Hubbell designed and manufactured 15 or 20 Amp receptacles
- UL Listed and CSA Certified
- Office white color

### Hard Wired Multi-Outlet PlugTrak®

- Available in 5 ft. (1.5m) or 6 ft. (1.8m) lengths
- Available in single, two circuit and is inherently an isolated ground product
- Multiple spacing configurations
- Hard wired PlugTrak® mates with LANTrak® fittings and boxes
- Tamper-Resistant versions available

### Portable PlugTrak®

- Available in 3 ft. (0.9m) or 5 ft. (1.5m) lengths
- 6 ft. (1.8m) length 15 or 20 Amp molded cord set allows reliable access
- Pre-punched holes make mounting easy

## PT1 PremiseTrak® (Non-Latching)

PT1 PremiseTrak®	Description	Color	Length	Without Adhesive	With Adhesive
	<b>Base and Cover</b> Single channel raceway. Available in 5 ft. (1.5m) and 7 ft. (2.1m) lengths.	Office White	5 ft. 7 ft.	<b>PT1BC5</b> <b>PT1BC7</b> A: .68" (17.27) B: .75" (19.05)	<b>PT1ABC5</b> <b>PT1ABC7</b> A: .68" (17.27) B: .75" (19.05)




Device Boxes	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>1-Gang Low Profile Box</b> For shallow switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PT12LPB</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.12" (28.45)	<b>1-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. See page R-63 for recommended plate options.	Office White	<b>PT12DBA</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.91" (48.51)
	<b>1-Gang Standard Box</b> For standard switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PT12SBA</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.63" (41.40)	<b>2-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. Uses 2-gang "KP", "IMF", or "IFP" plates for power or data applications. See page R-63 for recommended plate options.	Office White	<b>PT12TGB</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 1.91" (48.51)
<b>Round Lighting Fixture Box</b> To hang fixtures.	Office White	<b>PT12LFB</b> A: 5.31" (134.87) B: 1.04" (26.52)				


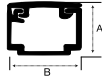
  

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Internal Elbow, Cover Only</b> For inside surfaces at right angles.	Office White	<b>PT1IE</b> A: 1.34" (34.04) B: 1.34" (34.04) C: 0.89" (22.61)	<b>External Elbow, Cover Only</b> For outside surfaces at right angles.	Office White	<b>PT1EE</b> A: 1.24" (31.50) B: 1.24" (31.50) C: 0.88" (22.35)
	<b>Flat Elbow, Cover Only</b> For right angle turns on same surface.	Office White	<b>PT1FE</b> A: 1.33" (33.78) B: 1.33" (33.78) C: 0.74" (18.80)	<b>Tee, Cover Only</b> For T-connection off PremiseTrak® Raceway.	Office White	<b>PT1TC</b> A: 1.77" (44.90) B: 1.33" (33.78) C: 0.74" (18.80)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PT1SC</b> A: 1.00" (25.40) B: 0.74" (18.80) C: 0.89" (22.61)	<b>End Cap</b> For closing end of raceway.	Office White	<b>PT1EC</b> A: 0.88" (22.35) B: 0.74" (18.80) C: 0.89" (22.61)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in. and 1 in. trade size KOs.	Office White	<b>PT12CA</b> A: 1.64" (41.66) B: 1.62" (41.15) C: 2.50" (63.50)			

Dimensions in Inches (mm)

## PP1 PremiseTrak® (Latching)

PP1 PremiseTrak®	Description	Color	Length	Without Adhesive	With Adhesive
	<b>Base and Cover</b> Single channel raceway. Available in 5 ft. (1.5m) and 7 ft. (2.1m) lengths.	Office White	5 ft. 7 ft.	<b>PP1BC5</b> <b>PP1BC7</b> A: 0.77" (19.56) B: 0.84" (21.34)	<b>PP1ABC5</b> <b>PP1ABC7</b> A: 0.77" (19.56) B: 0.84" (21.34)


	Description	Color	Catalog Number	Description	Color	Catalog Number
Device Boxes	<b>1-Gang Low Profile Box</b> For shallow switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PDB12LP</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)	<b>1-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. See page R-63 for recommended plate options.	Office White	<b>PDB12D</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)
	<b>1-Gang Standard Box</b> For standard switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PDB12S</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.78" (45.21)	<b>Round Lighting Fixture Box</b> To hang fixtures.	Office White	<b>PDB12LF</b> A: 5.31" (134.87) B: 1.29" (32.77)
	<b>2-Gang Deep Divided Box</b> For deep switches, receptacles and communication devices. See page R-63 for single gang "KP" plate options. Comes with removable divider.	Office White	<b>PDB12TGD</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)	<b>2-Gang Deep Undivided Box</b> For low voltage applications only. Use with 2-gang "IFP" or "IMF" plates only. See page R-63 for details.	Office White	<b>PDB12TGLV</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)
	<b>Internal Elbow</b> Full capacity 1¼ in. bend radius internal elbow.	Office White	<b>PP1IE*</b> <b>PP1IEBC**</b> A: 2.40" (60.96) B: 1.03" (26.16) C: 2.40" (60.96)	<b>External Elbow</b> Full capacity 1¼ in. bend radius external elbow.	Office White	<b>PP1EE*</b> <b>PP1EEBC**</b> A: 4.47" (113.54) B: 1.03" (26.16) C: 4.47" (113.54)
Fittings	<b>Flat Elbow</b> Full capacity 1¼ in. bend radius flat elbow.	Office White	<b>PP1FE*</b> <b>PP1FEBC**</b> A: 2.62" (66.55) B: 2.62" (66.55) C: 0.85" (21.59)	<b>Tee</b> Full capacity 1¼ in. bend radius tee.	Office White	<b>PP1TC*</b> <b>PP1TCBC**</b> A: 4.22" (107.19) B: 2.62" (66.55) C: 0.85" (21.59)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PP1SC</b> A: 1.09" (27.69) B: 1.02" (25.91) C: 0.85" (21.59)	<b>End Cap</b> For closing end of raceway.	Office White	<b>PP1EC</b> A: 1.00" (25.40) B: 0.84" (21.34) C: 0.77" (19.56)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in. and 1 in. trade size KOs.	Office White	<b>PLP1CACF</b> A: 2.29" (58.17) B: 3.31" (84.07) C: 3.90" (99.06)	<b>Safety Strap</b> For preventing potential tampering with PP1 PremiseTrak cover. Can also be used as a splice cover.	Office White	<b>PP1SS</b> A: 0.62" (15.75) B: 1.94" (49.28) C: 0.86" (21.84)

Note: \*Cover only. \*\*Base and Cover.

Dimensions in Inches (mm)

## PL1 LANTrak® (Latching)

PL1 LANTrak®	Description	Color	Length	Without Adhesive	With Adhesive
	<b>Base and Cover</b> Single channel raceway. Available in 5 ft. (1.5m) and 7 ft. (2.1m) lengths.	Office White	5 ft. 7 ft.	<b>PL1BC5</b> <b>PL1BC7</b> A: 1.04" (26.42) B: 1.38" (35.05)	<b>PL1ABC5</b> <b>PL1ABC7</b> A: 1.04" (26.42) B: 1.38" (35.05)



Device Boxes	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>1-Gang Low Profile Box</b> For shallow switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PDB12LP</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)	<b>1-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. See page R-63 for recommended plate options.	Office White	<b>PDB12D</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)
<b>1-Gang Standard Box</b> For standard switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PDB12S</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.78" (45.21)	<b>Round Lighting Fixture Box</b> To hang fixtures.	Office White	<b>PDB12LF</b> A: 5.31" (134.87) B: 1.29" (32.77)	
<b>2-Gang Deep Divided Box</b> For deep switches, receptacles and communication devices. See page R-63 for single gang "KP" plate options. Comes with removable divider.	Office White	<b>PDB12TGD</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)	<b>2-Gang Deep Undivided Box</b> For low voltage applications only. Use with 2-gang "IFP" or "IMF" plates only. See page R-63 for details.	Office White	<b>PDB12TGLV</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)	
Fittings	<b>Internal Elbow</b> Full capacity 1¼ in. bend radius internal elbow.	Office White	<b>PL1IE*</b> <b>PL1IEBC**</b> A: 2.51" (63.75) B: 1.57" (39.88) C: 2.51" (63.75)	<b>External Elbow</b> Full capacity 1¼ in. bend radius external elbow.	Office White	<b>PL1EE*</b> <b>PL1EEBC**</b> A: 5.06" (128.52) B: 1.57" (39.88) C: 5.06" (128.52)
	<b>Flat Elbow</b> Full capacity 1¼ in. bend radius flat elbow.	Office White	<b>PL1FE*</b> <b>PL1FEBC**</b> A: 3.19" (81.03) B: 3.19" (81.03) C: 1.11" (28.19)	<b>Tee</b> Full capacity 1¼ in. bend radius tee.	Office White	<b>PL1TC*</b> <b>PL1TCBC**</b> A: 4.75" (120.65) B: 3.15" (80.01) C: 1.11" (28.19)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PL1SC</b> A: 1.12" (28.45) B: 1.55" (39.37) C: 1.11" (28.19)	<b>End Cap</b> For closing end of raceway.	Office White	<b>PL1EC</b> A: 1.00" (25.40) B: 1.39" (35.31) C: 1.04" (26.42)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in. and 1 in. trade size KOs.	Office White	<b>PLP1CACF</b> A: 2.29" (58.17) B: 3.31" (84.07) C: 3.90" (99.06)	<b>Safety Strap</b> For preventing potential tampering with PL1 LANTrak cover. Can also be used as a splice cover.	Office White	<b>PL1SS</b> A: 0.62" (15.75) B: 2.68" (68.07) C: 1.12" (28.45)

Note: \*Cover only. \*\*Base and Cover.

Dimensions in Inches (mm)

## PW1 WallTrak® Low Profile (Latching)

PW1 WallTrak®	Description	Color	Length	Without Adhesive	With Adhesive
	<b>Base and Cover</b> Single channel raceway. Available in 5 ft. (1.5m) and 7 ft. (2.1m) lengths.	Office White	5 ft. 7 ft.	<b>PW1BC5</b> <b>PW1BC7</b> A: .50" (12.70) B: 1.19" (30.23)	<b>PW1ABC5</b> <b>PW1ABC7</b> A: .50" (12.70) B: 1.19" (30.23)



Device Boxes	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>1-Gang Low Profile Box</b> For shallow switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PW1LPB</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.13" (28.70)	<b>1-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. See page R-63 for recommended plate options.	Office White	<b>PW1DBA</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.91" (48.51)
<b>1-Gang Standard Box</b> For standard switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PW1SBA</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.63" (41.40)	<b>2-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. Uses 2-gang "KP" or "IFP" plates for power or data applications. See page R-63 for recommended plate options.	Office White	<b>PW1TGB</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 1.91" (48.51)	
<b>Round Lighting Fixture Box</b> To hang fixtures.	Office White	<b>PW1LFB</b> A: 5.31" (134.87) B: 1.04" (26.52)				
Fittings	<b>Internal Elbow, Cover Only</b> For inside surfaces at right angles.	Office White	<b>PW1IE</b> A: 1.75" (44.45) B: 1.43" (36.32) C: 1.75" (44.45)	<b>External Elbow, Cover Only</b> For outside surfaces at right angles.	Office White	<b>PW1EE</b> A: 1.50" (38.10) B: 1.43" (36.32) C: 1.50" (38.10)
	<b>Flat Elbow, Cover Only</b> For right angle turns on same surface.	Office White	<b>PW1FE</b> A: 2.18" (55.37) B: 2.18" (55.37) C: .60" (15.24)	<b>Tee, Cover Only</b> For T-connection off PremiseTrak® Raceway.	Office White	<b>PW1TC</b> A: 2.93" (74.42) B: 2.18" (55.37) C: .60" (15.24)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PW1SC</b> A: 1.00" (25.40) B: 1.43" (36.32) C: .60" (15.24)	<b>End Cap</b> For closing end of raceway.	Office White	<b>PW1EC</b> A: 1.00" (25.40) B: 1.24" (31.50) C: .50" (12.70)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in. and 1 in. trade size KOs.	Office White	<b>PW1CA</b> A: 1.40" (35.56) B: 2.34" (59.44) C: 3.22" (81.79)			

Dimensions in Inches (mm)



## PW2 WallTrak® (Latching)


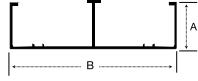
PW2 WallTrak®	Description	Color	Length	Without Adhesive	With Adhesive
	<b>Base and Cover</b> Two channel raceway. Available in 5 ft. (1.5m) and 7 ft. (2.1m) lengths.	Office White	5 ft. 7 ft.	<b>PW2BC5</b> <b>PW2BC7</b> A: 1.04" (26.42) B: 2.12" (53.85)	<b>PW2ABC5</b> <b>PW2ABC7</b> A: 1.04" (26.42) B: 2.12" (53.85)

	Description	Color	Catalog Number	Description	Color	Catalog Number
Device Boxes	<b>1-Gang Low Profile Box</b> For shallow switches and receptacles. See page R-63 for recommended plate options.	Office White	<b>PDB12LP</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)	<b>Round Lighting Fixture Box</b> To hang fixtures.	Office White	<b>PDB12LF</b> A: 5.31" (134.87) B: 1.29" (32.77)
	<b>1-Gang Standard Box</b> For standard switches and receptacles. See page R-63 for recommended plate options. If using dual services, the PDB1DIV must be ordered.	Office White	<b>PDB12S</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.78" (45.21)	<b>2-Gang Deep Undivided Box</b> For low voltage applications only. Use with 2-gang "IFP" or "IMF" plates only. See page R-63 for details.	Office White	<b>PDB12TGLV</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)
	<b>1-Gang Deep Box</b> For deep devices or applications where additional room is beneficial. See page R-63 for recommended plate options. If using dual services, the PDB1DIV must be ordered.	Office White	<b>PDB12D</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)	<b>2-Gang Deep Divided Box</b> For deep devices or applications where additional room is beneficial. See page R-63 for single gang "KP" plate options. Comes with removable divider. If using dual services, in a perpendicular run the PDB2DIV must be ordered.	Office White	<b>PDB12TGD</b> A: 4.90" (124.46) B: 5.06" (128.52) C: 2.44" (61.98)
	<b>1-Gang Divider</b> For use with PDB12S and PDB12D 1-gang boxes. Required when two services are passing through box.	Office White	<b>PDB1DIV</b> A: 2.79" (70.86) B: 1.40" (35.56) C: 0.94" (23.88)	<b>2-Gang Divider</b> For use with PDB12TGD 2-gang box only. Required when two services are passing through box and mounting devices perpendicular to raceway.	Office White	<b>PDB2DIV</b> A: 4.62" (117.35) B: 2.76" (70.10) C: 0.94" (23.88)
	<b>Internal Elbow</b> Full capacity 1¼ in. bend radius internal elbow.	Office White	<b>PW2IE*</b> <b>PW2IEBC**</b> A: 2.83" (71.88) B: 2.32" (58.93) C: 2.83" (71.88)	<b>External Elbow</b> Full capacity 1¼ in. bend radius external elbow.	Office White	<b>PW2EE*</b> <b>PW2EEBC**</b> A: 5.00" (127.00) B: 2.32" (58.93) C: 5.00" (127.00)
Fittings	<b>Flat Elbow</b> Full capacity 1¼ in. bend radius flat elbow.	Office White	<b>PW2FE*</b> <b>PW2FEBC**</b> A: 3.94" (100.08) B: 3.94" (100.08) C: 1.11" (28.19)	<b>Tee</b> Full capacity 1¼ in. bend radius tee.	Office White	<b>PW2TC*</b> <b>PW2TCBC**</b> A: 5.42" (137.67) B: 3.91" (99.31) C: 1.90" (48.26)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PW2SC</b> A: 1.11" (28.19) B: 2.30" (58.42) C: 1.11" (28.19)	<b>Safety Strap</b> For preventing potential tampering with PW2 WallTrak Cover. Can also be used as a splice cover.	Office White	<b>PW2SS</b> A: 0.62" (15.75) B: 3.43" (87.12) C: 1.12" (28.45)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in. and 1 in. trade size KOs.	Office White	<b>PW2CACF</b> A: 4.18" (106.17) B: 3.32" (84.33) C: 4.20" (106.68)	<b>Reducer</b> Reduces from PW2 WallTrak Raceway to one or two PP1 PremiseTrak Raceway(s).	Office White	<b>PW2RED</b> A: 1.62" (41.15) B: 2.40" (60.96) C: 1.15" (29.21)
	<b>End Cap</b> For closing end of PW2 WallTrak Raceway.	Office White	<b>PW2EC</b> A: 1.00" (25.40) B: 2.14" (54.36) C: 1.04" (26.42)			

Note: \*Cover only. \*\*Base and Cover.

Dimensions in Inches (mm)

## PB2 BaseTrak®

PB2 BaseTrak®	Description	Color	Length	Catalog Number	Description	Color	Length	Catalog Number	
	<b>Base</b> Two channel raceway. Available in 5 ft. (1.5m) and 10 ft. (3m) lengths.  Assembled cover and base dimensions: W: 4.50" (114.30) H: 1.63" (41.40)	Office	5 ft.	<b>PB2B5</b>	 	<b>Cover</b> Cover allows access to multiple channels. Available in 5 ft. (1.5m) and 10 ft. (3m) lengths.	Office	5 ft.	<b>PB2C5</b>
		White	10 ft.	<b>PB2B10</b>			White	10 ft.	<b>PB2C10</b>
					<b>Split Cover</b> Cover allows separation of channels and access to a single channel. Available in 5 ft. (1.5m) and 10 ft. (3m) lengths. Two split covers are required for each raceway section.	Office	5 ft.	<b>PB2SPL5</b>	
						White	10 ft.	<b>PB2SPL10</b>	

Device Boxes	Description	Color	Catalog Number
	<b>2-Gang In-Line Box</b> For switches, receptacles and communication devices. Provides flush look. See page R-63 for recommended single gang "KP" plate options.	Office White	<b>PB2IND2G</b> A: 7.66" (194.56) B: 4.74" (120.40) C: 1.84" (46.74)

Fittings	Description	Color	Catalog Number	Description	Color	Catalog Number
	<b>Internal Elbow, Base and Cover</b> Full capacity 1¼ in. bend radius internal elbow.	Office White	<b>PB3IEBCA</b> A: 4.36" (110.74) B: 4.72" (119.89) C: 4.36" (110.74)	<b>External Elbow, Base and Cover</b> Full capacity 1¼ in. bend radius external elbow.	Office White	<b>PB3EEBCA</b> A: 6.48" (164.59) B: 4.72" (119.89) C: 6.48" (164.59)
	<b>Flat Elbow, Base and Cover</b> Full capacity 1¼ in. bend radius flat elbow.	Office White	<b>PB3FEBCA</b> A: 7.64" (194.66) B: 7.64" (194.66) C: 1.71" (43.43)	<b>Tee, Base and Cover</b> Full capacity 1¼ in. bend radius tee.	Office White	<b>PB3TCBCA</b> A: 7.37" (187.20) B: 7.08" (179.83) C: 2.72" (69.09)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PB3SC</b> A: 1.56" (39.62) B: 4.74" (120.40) C: 1.69" (42.93)	<b>Safety Strap</b> For preventing potential tampering with PB2 BaseTrak cover. Can also be used as a splice cover.	Office White	<b>PB3SS</b> A: 1.50" (38.10) B: 6.01" (152.65) C: 1.74" (44.20)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in., 1 in., 1¼ in. and 1½ in. trade size KOs.	Office White	<b>PB2CACF</b> A: 4.72" (119.89) B: 5.22" (132.70) C: 6.30" (160.02)	<b>Reducer</b> Reduces from PB2 BaseTrak Raceway to PW2 WallTrak Raceway.	Office White	<b>PB3REDA</b> A: 3.50" (88.90) B: 4.72" (119.89) C: 1.73" (43.94)
	<b>Transition Fitting</b> Transitions horizontal PB2 BaseTrak to vertical PW2 WallTrak, PL1 LANTrak or PP1 PremiseTrak.	Office White	<b>PB3TRBC</b> A: 3.22" (81.79) B: 7.28" (184.91) C: 2.42" (61.47)	<b>Surface Panel Connector</b> For connecting PB2 Raceway with surface type panel boxes.	Office White	<b>PB3SPCA</b> A: 2.22" (56.39) B: 5.66" (143.76) C: 1.60" (40.64)
	<b>Wire Clip</b> For holding conductors in place.	Office White	<b>PB2WC</b> A: 1.29" (50.20) B: 1.00" (25.40)	<b>End Cap</b> For closing end of PB2 BaseTrak Raceway.	Office White	<b>PB3ECA</b> A: 2.02" (51.31) B: 4.68" (118.97) C: 1.72" (43.69)

Dimensions in Inches (mm)

## PB3 BaseTrak®

	Description	Color	Length	Catalog Number
<b>PB3 BaseTrak®</b>	<b>Description</b>			
	<b>Base and Cover</b> Three channel raceway. Available in 5 ft. (1.5m) and 10 ft. (3m) lengths.	Office White	5 ft. 10 ft.	<b>PB3BC5</b> <b>PB3BC10</b> A: 1.63" (41.40) B: 4.50" (114.30)
<b>Device Boxes</b>	<b>Full Capacity Boxes</b> 1-, 2- and 3-Gang boxes that allows full capacity from PB3 Raceway to box for either power or datacom applications. See page R-63 for recommended single gang "KP" plate options.	Office White		<b>PB3FCIB</b> (1-Gang) A: 4.38" (111.25) B: 4.80" (121.92) C: 3.17" (80.52)
				<b>PB3FCIB2G</b> (2-Gang) A: 7.20" (182.88) B: 4.80" (121.92) C: 3.17" (80.52)
				<b>PB3FCIB3G</b> (3-Gang) A: 9.96" (252.98) B: 4.80" (121.92) C: 3.17" (80.52)
	<b>1-Gang In-Line Box</b> For switches, receptacles and communication devices. Provides flush look. See page R-63 for recommended plate options.	Office White	<b>PB3IND</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 1.25" (31.75)	
			<b>2-Gang In-Line Box</b> For switches, receptacles and communication devices. Barriers allow separation of power and datacom. Removal of barriers allows for expanded capacity. See page R-63 for recommended single gang "KP" plate options.	Office White
			<b>PB3IND2G</b> A: 4.90" (124.46) B: 3.25" (82.55) C: 2.44" (61.98)	
	<b>Internal Elbow</b> Full capacity 1¼ in. bend radius internal elbow.	Office White	<b>PB3IE*</b> <b>PB3IEBCA**</b> A: 4.36" (110.74) B: 4.72" (119.89) C: 4.36" (110.74)	
			<b>External Elbow</b> Full capacity 1¼ in. bend radius external elbow.	Office White
		<b>PB3EE*</b> <b>PB3EEBCA**</b> A: 6.48" (164.59) B: 4.72" (119.89) C: 6.48" (164.59)		
<b>Flat Elbow</b> Full capacity 1¼ in. bend radius flat elbow.	Office White	<b>PB3FE*</b> <b>PB3FEBCA**</b> A: 7.64" (194.66) B: 7.64" (194.66) C: 1.71" (43.43)		
		<b>Tee</b> Full capacity 1¼ in. bend radius tee.	Office White	
		<b>PB3TCBCA**</b> A: 7.37" (187.20) B: 7.08" (179.83) C: 2.72" (69.09)		
<b>Fittings</b>	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PB3SC*</b> A: 1.56" (39.62) B: 4.74" (120.40) C: 1.69" (42.93)	
			<b>Safety Strap</b> Prevents potential tampering with PB3 BaseTrak cover. Can also be used as a splice cover.	Office White
			<b>PB3SS*</b> A: 1.50" (38.10) B: 6.01" (152.65) C: 1.74" (44.20)	
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in., 1 in., 1¼ in. and 1½ in. trade size KOs.	Office White	<b>PB3CACF**</b> A: 4.72" (119.89) B: 5.22" (132.70) C: 6.30" (160.02)	
			<b>Reducer</b> Reduces from PB3 BaseTrak Raceway to PW2 WallTrak Raceway.	Office White
			<b>PB3REDA**</b> A: 3.50" (88.90) B: 4.72" (119.89) C: 1.73" (43.94)	
	<b>Transition Fitting</b> Transitions horizontal PB3 BaseTrak to vertical PW2 WallTrak, PL1 LANTrak or PP1 PremiseTrak.	Office White	<b>PB3TRBC**</b> A: 3.22" (81.79) B: 7.28" (184.91) C: 2.42" (61.47)	
			<b>Transition Fitting</b> Transitions from BT3 (old style) BaseTrak Raceway to PB3 (new style) BaseTrak Raceway.	Office White
		<b>BTPB3TF*</b> A: 2.22" (56.39) B: 5.66" (143.76) C: 1.35" (34.29)		
<b>Surface Panel Connector</b> For connecting PB3 Raceway with surface type panel boxes.	Office White	<b>PB3SPCA*</b> A: 2.22" (56.39) B: 5.66" (143.76) C: 1.60" (40.64)		
		<b>End Cap</b> For closing end of PB3 BaseTrak Raceway.	Office White	
		<b>PB3ECA*</b> A: 2.02" (51.31) B: 4.68" (118.97) C: 1.72" (43.69)		
<b>Wire Clip</b> For holding conductors in place.	Office White	<b>PB3WC</b> A: 1.34" (34.10) B: 1.00" (25.40)		

Note: \*Cover only. \*\*Base and Cover.

Dimensions in Inches (mm)

## PS3 Super BaseTrak®

PS3 BaseTrak®	Description	Color	Length	Catalog Number		
	<b>Base and Cover</b> Three channel raceway. Available in 5 ft. (1.5m) and 10 ft. (3m) lengths.	Office White	5 ft. 10 ft.	<b>PS3BC5</b> <b>PS3BC10</b> A: 1.97" (50.04) B: 6.70" (170.18)		
Device Boxes	<b>Full Capacity Boxes</b> 1-, 2- and 3-Gang boxes that allows full capacity from PS3 Raceway to box for either power or datacom applications. See page R-63 for recommended single gang "KP" plate options.	Office White	<b>PS3FCIB</b> (1-Gang) A: 4.38" (111.25) B: 6.95" (176.53) C: 3.46" (87.88)	<b>PS3FCIB2G</b> (2-Gang) A: 7.20" (182.88) B: 6.95" (176.53) C: 3.46" (87.88)	<b>PS3FCIB3G</b> (3-Gang) A: 9.96" (252.98) B: 6.95" (176.53) C: 3.46" (87.88)	
	<b>3-Gang In-Line Box</b> For any combination of power and datacom applications. Provides flush look. See page R-63 for recommended single gang "KP" plate options.	Office White	<b>PS3IND</b> A: 7.00" (177.80) B: 6.95" (176.53) C: 2.28" (57.91)			
Fittings	<b>Internal Elbow</b> Full capacity 1¼ in. bend radius internal elbow.	Office White	<b>PS3IE*</b> <b>PS3IEBC**</b> A: 4.36" (110.74) B: 6.93" (176.02) C: 4.36" (110.74)	<b>External Elbow</b> Full capacity 1¼ in. bend radius external elbow.	Office White	<b>PS3EE*</b> <b>PS3EEBC**</b> A: 6.81" (172.97) B: 6.93" (176.02) C: 6.81" (172.97)
	<b>Flat Elbow</b> Full capacity 1¼ in. bend radius flat elbow.	Office White	<b>PS3FE*</b> <b>PS3FEBC**</b> A: 9.85" (250.19) B: 9.85" (250.19) C: 2.08" (52.83)	<b>Tee</b> Full capacity 1¼ in. bend radius tee.	Office White	<b>PS3TCBC**</b> A: 10.00" (254.00) B: 9.68" (245.87) C: 3.30" (83.82)
	<b>Splice Cover</b> For covering potential openings where two lengths of raceway come together.	Office White	<b>PS3SC*</b> A: 1.56" (39.62) B: 6.95" (176.53) C: 2.03" (51.62)	<b>Safety Strap</b> Prevents potential tampering with PS3 Super BaseTrak cover. Can also be used as a splice cover.	Office White	<b>PS3SS*</b> A: 1.50" (38.10) B: 8.24" (209.30) C: 2.08" (52.85)
	<b>Conduit Adapter/Ceiling Fitting</b> For connecting conduit to raceway. Also use for ceiling feeds. Has combination ½ in., ¾ in., 1 in., 1¼ in. and 1½ in. trade size KOs.	Office White	<b>PS3CACF**</b> A: 6.93" (176.02) B: 4.32" (109.73) C: 6.29" (159.77)	<b>Reducer</b> Reduces from PS3 Super BaseTrak Raceway to PB3 BaseTrak Raceway.	Office White	<b>PS3RED**</b> A: 4.81" (122.17) B: 6.93" (176.02) C: 2.05" (52.07)
	<b>Surface Panel Connector</b> To connect PS3 Raceway with surface type panel boxes.	Office White	<b>PS3SPC*</b> A: 1.00" (25.40) B: 7.87" (199.90) C: 2.54" (64.52)	<b>End Cap</b> For closing end of PS3 Super BaseTrak Raceway.	Office White	<b>PS3EC*</b> A: 1.50" (38.10) B: 6.88" (174.75) C: 2.06" (52.32)
	<b>Wire Clip</b> For holding conductors in place.	Office White	<b>PS3WC</b> A: 1.62" (41.15) B: 1.00" (25.40)			

Note: \*Cover only. \*\*Base and Cover.

Dimensions in Inches (mm)



# Non-Metallic Raceway



## Non-Metallic PlugTrak®

Available in Standard, Isolated Ground (IG), Tamper-Resistant (TR) and USB (U) versions.



	Amp Circuits	Duplex Recept. Ports	USB Recept. Ports	Recept. Spacing (in.)	Color		
					Black	White	Office White
5 Foot Base and Cover	15 Single	5	—	12	PT155112BK	PT155112W	PT155112
	15 Two	5	—	12	PT155212BK	PT155212W	PT155212
	15 Single	4	—	15	PT155115BK	PT155115W	PT155115
	15 Single	2	—	30	PT155130BK	PT155130W	PT155130
	15 TR/Single	5	—	12	PT155112TRBK	PT155112TRW	PT155112TR
	20 Single	5	—	12	PT205112BK	PT205112W	PT205112
	20 Two	5	—	12	PT205212BK	PT205212W	PT205212
	20 Single	4	—	15	PT205115BK	PT205115W	PT205115
	20 Two	4	—	15	PT205215BK	PT205215W	PT205215
	20 Single	2	—	30	PT205130BK	PT205130W	PT205130
	20 TR/Single	5	—	12	PT205112TRBK	PT205112TRW	PT205112TR
	6 Foot Base and Cover	15 Single	6	—	12	PT156112BK	PT156112W
15 Two		6	—	12	PT156212BK	PT156212W	PT156212
15 Single		4	—	18	PT156118BK	PT156118W	PT156118
15 Single		3	—	24	PT156124BK	PT156124W	PT156124
15 USB/Single		4	4	12	PT156112UBK	PT156112UW	PT156112U
20 Single		9	—	8	PT206108BK	PT206108W	PT206108
20 Two		9	—	8	PT206208BK	PT206208W	PT206208
20 Single		6	—	12	PT206112BK	PT206112W	PT206112
20 Two		6	—	12	PT206212BK	PT206212W	PT206212
20 Single		4	—	18	PT206118BK	PT206118W	PT206118
20 Two		4	—	18	PT206218BK	PT206218W	PT206218
20 Single		3	—	24	PT206124BK	PT206124W	PT206124
20 Two	3	—	24	PT206224BK	PT206224W	PT206224	
20 Single	2	—	36	PT206136BK	PT206136W	PT206136	

Note: Each Non-Metallic PlugTrak is supplied with one PL1EC end cap and "IG" stickers for isolated ground applications.



	Length (ft.)	Cord Length (ft.)	Duplex Recept. Ports	USB Recept. Ports	Color			
					Black	White	Office White	
Portable	15	3	6	3	—	PT153112PBK	PT153112PW	PT153112P
	15	5	6	5	—	PT155112PBK	PT155112PW	PT155112P
	15	3	6	4	2	PT153112UPBK	PT153112UPW	PT153112UP
	20	3	6	2	—	PT203112PBK	PT203112PW	PT203112P
	20	5	6	5	—	PT205112PBK	PT205112PW	PT205112P
Supporting Mounting Clip for Portable PlugTrak.							PL1MC	

Note: Includes ON/OFF switch and circuit breaker.

	Descript.	Catalog No.	Descript.	Catalog No.
Device Boxes	1-Gang Low Profile	PDB12LP	1-Gang Deep	PDB12D
	1-Gang Standard	PDB12S	Round Lighting Fixture	PDB12LF
	2-Gang Deep Undivided	PDB12TGLV	2-Gang Deep Divided	PDB12TGD
Fittings	Internal Elbow Base and Cover	PL1IEBC	Internal Elbow Cover Only	PL1IE
	External Elbow Base and Cover	PL1EEBC	External Elbow Cover Only	PL1EE
	Flat Elbow Base and Cover	PL1FEBC	Flat Elbow Cover Only	PL1FE
	Tee Base and Cover	PL1TCBC	Tee Cover Only	PL1TC
	Splice Cover	PL1SC	Safety Strap	PL1SS
	Conduit Adapter/Ceiling Fitting	PT12CA	Conduit Adapter/Ceiling Fitting	PLP1CACF
	End Cap	PL1EC		

Note: For additional colors add "BK" for Black or "W" for white. See page R-56 for additional information.



## Plates, Frames and Modular Connector Fittings

1-Gang and 2-Gang "KP" Plates	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Black	<b>KP8BK</b>	<b>KP26BK</b>	<b>KP1BK</b>	<b>KP7BK</b>	<b>KP720BK</b>
	White	<b>KP8W</b>	<b>KP26W</b>	<b>KP1W</b>	<b>KP7W</b>	<b>KP720W</b>
	Off. White	<b>KP8</b> Duplex	<b>KP26</b> Style Line®	<b>KP1</b> Toggle	<b>KP7</b> Recept. (1.41 ID)	<b>KP720</b> Recept. (1.60 ID)
Black	<b>KP14BK</b>	<b>KP212BK</b>	<b>KP2140BK</b>	<b>KP2162BK</b>	<b>KP2163BK</b>	
White	<b>KP14W</b>	<b>KP212W</b>	<b>KP2140W</b>	<b>KP2162W</b>	<b>KP2163W</b>	
Off. White	<b>KP14</b> Blank	<b>KP212</b> Coax (2)	<b>KP2140</b> Jack/Coax	<b>KP2162</b> Modular Jacks (2)	<b>KP2163</b> Modular Jacks (3)	
Black	<b>KPORTBK</b>	<b>KPPANBK</b>	<b>KPIMBZBK</b>			
White	<b>KPORTW</b>	<b>KPPANW</b>	<b>KPIMBZW</b>			
Off. White	<b>KPORTOW</b> Ortronics Series II® Data Module	<b>KPPANOW</b> Panduit Mini-Com® Data Module	<b>KPIMBZOW</b> 3-Unit iSTATION (Accepts all Hubbell iSTATION Modules located in Network Wiring section)			
Black	<b>KP82BK</b>	<b>KP262BK</b>	<b>KP2BK</b>	<b>KP24BK</b>		
White	<b>KP82W</b>	<b>KP262W</b>	<b>KP2W</b>	<b>KP24W</b>		
Off. White	<b>KP82</b> 2-Gang Duplex	<b>KP262</b> 2-Gang Style Line®	<b>KP2</b> 2-Gang Toggle	<b>KP24</b> 2-Gang Blank		

Note: 2-Gang "KP" plates, for use with PT12TGB and PW1TGB only.

Comm. "IFP" Plates & Frames	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Office	<b>IFP126OW</b>	<b>ISF2OW</b>	<b>ISF3OW</b>	<b>ISF4OW</b>	<b>ISF6OW</b>
	White	Style Line®	Style Line® 2-Port	Style Line® 3-Port	Style Line® 4-Port	Style Line® 6-Port
Office	<b>IFP18OW</b>	<b>BR106C</b>	<b>Q106O</b>	<b>IFP12OW</b>	<b>IFP13OW</b>	
White	Duplex	Duplex 2-Port	Duplex 4-Port	Flush 2-Port	Flush 3-Port	
Office	<b>IFP14OW</b>	<b>IFP16OW</b>	<b>IFP26OW</b>	<b>IFP29OW</b>	<b>IFP212OW</b>	
White	Flush 4-Port	Flush 6-Port	2-Gang 6-Port	2-Gang 9-Port	2-Gang 12-Port	

Frames & Modules	Description	Color	1-Gang	2-Gang
	Front loading plate will accept any modules in three unit combinations. Angled fixtures to be used in bottom opening only. See section W for additional information on Hubbell iSTATION modules. Each gang accepts 3 module units.	Office White	<b>IMF1OW</b>	<b>IMF2OW</b>

Modular connectors to be used with any plate with a standard modular opening. Not recommended for use with KP plates. For KP applications use KPIMBZOW bezel and appropriate Hubbell iSTATION modules located in section W. Use appropriate Hubbell iSTATION modules for SC fiber adapters. See section W for additional information on modular connectors.

Modular Connector Fittings	Color	Catalog Number	Catalog Number	Catalog Number	Catalog Number
	Office White	<b>SFFX</b> F-Connector	<b>SFST</b> ST Fiber Connector	<b>SFBOW</b> BNC Connector	<b>SFB10</b> Blank (10 Pack)
Black housing only	<b>SFRC110R</b> RCA 110 Punchdown	<b>SFSV110BK</b> Super S-Video	<b>FASCMPB6</b> SC Duplex Adapter	<b>FASTSCMPB6</b> SC to ST Duplex Adapter	

Xcelerator Modular Jacks	Color	Catalog Number	Catalog Number	Catalog Number
	Office White	<b>HXJ5EOW</b> Cat. 5e, T568A, T568B, RJ45	<b>HXJ6OW</b> Cat. 6, T568A, T568B, RJ45	<b>HXJUOW</b> 6 Position USOC, RJ25

Jack Color Options (Replace OW suffix with additional colors below)

AL=Almond BK=Black B=Blue EI=Elec. Ivory GY=Gray GN=Green LA=Lt. Almond OR=Orange OW=Off. White R=Red W=White Y=Yellow

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Ortronics® and Series II® are registered trademarks of Ortronics/Legrand.

## Wire Fill Capacity Chart and Technical Information

Non-Metallic Raceway Wire Fill Capacities																
Series		Channel	Channel Area (sq. in.)	Power (THHN/T90 Nylon)			Voice		Data (Copper Cables)					Data (Multimode Fiber Optic Cables)		
				14 AWG	12 AWG	10 AWG	4-Pair	25-Pair	Type RG59U	Cat. 5e	Cat. 6	Cat. 6A	Cat. 6 STP	(2) or (4) Fiber Round Cable	Fiber Optic Jumpers	Fiber Optic Zip Cord
				Wire O.D. (in.):	0.111	0.13	0.164	0.19	0.41	0.242	0.21	0.25	0.35	0.29	0.19	0.118
		Wire Area (sq. in.):	0.0097	0.0133	0.0211	0.0283	0.1320	0.0460	0.0346	0.0491	0.0962	0.0660	0.0283	0.0109	0.0288	
			Wire Fill Capacity			40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	
PT1	A	0.29	5	8	5	4	1	3	3	2	1	2	4	11	4	
PP1	A	0.38	12	11	8	5	1	3	4	3	2	2	5	14	5	
PL1	A	1.03	42	34	22	15	3	9	12	8	4	6	15	38	14	
PW1	A	0.30	6	10	4	4	0	2	3	2	1	2	4	11	4	
PW2	A+B	1.60	41	36	22	23	5	14	18	13	7	10	23	59	22	
A B	A	0.81	12	22	12	11	2	7	9	7	3	5	11	30	11	
	B	0.79	12	22	10	11	2	7	9	6	3	5	11	29	11	
PB2	A+B	5.72	60	36	45	81	17	50	66	47	24	35	81	210	79	
A B	A or B	2.86	42	30	28	40	9	25	33	23	12	17	40	105	40	
PB3	A+B+C	5.57	60	36	45	79	17	48	64	45	23	34	79	204	77	
A B C	A or C	1.80	42	30	28	25	5	16	21	15	7	11	25	66	25	
	B	1.97	42	30	28	28	6	17	23	16	8	12	28	72	27	
PS3	A+B+C	10.58	72	66	78	150	32	92	122	86	44	64	150	388	147	
A B C	A or C	3.41	42	36	42	48	10	30	39	28	14	21	48	125	47	
	B	3.76	42	36	42	53	11	33	43	31	16	23	53	138	52	

Note: Pathway (Raceway) fill shall be 40% maximum. Raceway fittings and outlets/receptacles reduce the cross section of the raceway system, thus reducing overall cable fill capacity.

Recommended Plate to Box Compatibility Selection Chart																
Non-Metallic Raceway Box Series		PS3 Series				PB3 Series					PB2 Series	PDB12 Series			PT12 & PW1 Series	
Plate Style	Sample Catalog Number	IND	FCIB	FCIB2G	FCIB3G	IND	IND2G	FCIB	FCIB2G	FCIB3G	IND2G	LP, S, D	TGD	TGLV	LP(B), S(BA), D(BA)	TGB
1-Gang KP Series Plate	KP8	X	X	X	X	X	X	X	X	X	X	X	X		X	
1-Gang KP Series Bezel	KPIMBZ	X	X	X	X	X	X	X	X	X	X	X	X		X	
1-Gang Standard Data Plate	IFP12OW		X	X	X	X		X	X	X		X			X	
1-Gang iSTATION Plate Frame	IMF10W		X	X	X	X		X	X	X		X			X	
Style Line® Data Plate	IFP126OW		X	X	X	X		X	X	X		X			X	
Duplex Data Plate	IFP18OW		X	X	X	X		X	X	X		X			X	
2-Gang iSTATION Plate Frame	IMF20W													X		X
2-Gang Standard Data Plate	IFP29OW													X		X
2-Gang KP Series Plate	KP82															X

Note: Hubbell Office White plates and devices color match all non-metallic raceway systems.

### Physical Properties

(When tested in accordance with UL 5A)

Impact Resistance	5 ft. lbs.
Crush Resistance	300 lbs.
Temperature Range	-25.6° to 158° F
Flame Rating	UL94V-0
Material	UV Stabilized PVC

### Codes/Standards

EIA/TIA	569A
UL Standard	UL 5A
Listings	E118895 / E119190
CSA Standard	C22.2 no. 62
Certified	LR87514

### PlugTrak Specifications

Receptacle Rating	NEMA 5-15R & 5-20R
Wire	#12 AWG Stranded Copper
Receptacle Face	Thermoplastic

# Non-Metallic Raceway

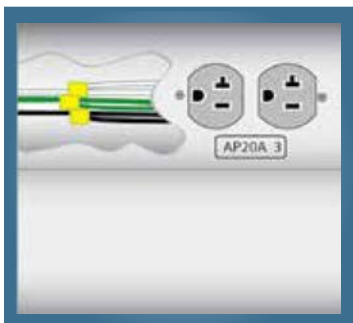
## Pre-Wired Raceway Systems

**Hubbell has been setting the standard** in the electrical industry since 1888, through innovations such as Twist-Lock®, Hospital Grade, and AUTOGUARD™ Self Test GFCI receptacles. Again, Hubbell has listened to our customers for new innovation, capacity requirements, and flexibility. We have taken raceway systems to the next level with **Pre-Wired Raceway Systems** that are manufactured to your specifications.

**Our Pre-Wired Raceway Systems** will accommodate your power and data requirements as your facility changes over time. Pre-Wired Raceways provide you with the benefit of keeping your fast track projects on schedule, and helping complete the job on time! Our Pre-Wired Raceway solutions will save up to 45% of the installation time needed for field installing component raceway parts.

### **Pre-Wired Raceways are available in:**

- ✓ Steel (Ivory and Gray)
- ✓ Aluminum
- ✓ Non-Metallic (Office White)



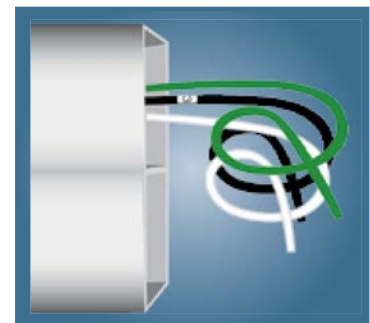
### **Quality by Design**

All Hubbell Pre-Wired Raceways are UL Listed and CSA Certified. Each raceway receives a 100% quality inspection and testing prior to shipment. Pre-Wired Raceway is now available with the high quality and workmanship you have come to expect from Hubbell.



### **Labeling and Engraving**

Optional labeling is available to identify branch panels and circuits at receptacle locations. Choose from adhesive labels or engraved aluminum plates.



### **Wire Identification**

Wire leads are clearly labeled with corresponding circuit numbers. This aids the installer when terminating to building wiring or connecting from duct to duct. Ample wire is provided at feed locations.

## Pre-Wired Raceway Systems

Save Time and Money, Completing the Job Quicker and On Schedule, with Hubbell...

### With Standard Raceway...



Unpack, identify and sort component parts.  
Deliver components to work area for assembly and installation.



Measure and cut.  
Clean and de-burr sharp edges.  
Secure to the wall and fasten.



Pull wire.  
Label and bundle each raceway circuit.  
Install receptacles and test.

### With Hubbell Pre-Wired Raceway...



Pallet delivered to your worksite, labeled by room, floor area and/or building.



Unpack and install!



Installed in half the time!



### Project Support and Documentation

- ✓ A local and factory support team is there to assist in defining bills of material and project quotes, so costs can be budgeted accordingly.
- ✓ A project engineer, located at the factory, is assigned to your project as a direct point of contact.

### Manufacturing and Testing

- ✓ Precisely measured, cleanly cut, wired and assembled to your specifications.
- ✓ The wiring harness is then bundled and labeled for circuit identification for ease of installation.
- ✓ Assembly is tested for assured continuity and 100% quality inspected before kitting.



### Installs In A Snap

- ✓ Raceway ducts are kitted, labeled, and shipped by room, area or floor locations.
- ✓ Just remove raceway from the packaging and secure to the wall.
- ✓ Make power connections, snap on covers, test and you are done!



### Options:



#### Circuit Identification and Labeling:

- ✓ Adhesive Labeling
- ✓ Engraving



#### Wiring Circuits Options:

- ✓ Insulation Displacement Connectors
- ✓ Wire Nuts
- ✓ Wiring Devices



#### Kit raceway for delivery by:

- ✓ Room
- ✓ Floor
- ✓ Area
- ✓ Building

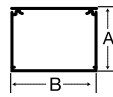


## Features and Benefits

### Aluminum Pre-Wired Raceway (LINKOSITY® devices may be utilized with this Raceway Series)

#### HBLALU3800 Series Aluminum Raceway

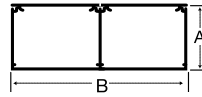
Description  
Aluminum Raceway, Single Channel,  
Satin Anodized Finish.



Dimension  
A: 2.25" (57.15)  
B: 3.00" (76.20)

#### HBLALU4800 Series Aluminum Raceway

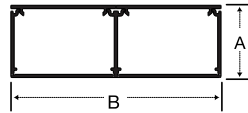
Description  
Aluminum Raceway, Two Channel,  
Satin Anodized Finish.



A: 2.25" (57.15)  
B: 6.00" (152.40)

#### HBLALU5000 Series Aluminum Raceway

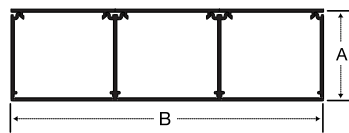
Description  
Aluminum Raceway, Two Channel,  
Satin Anodized Finish.



A: 1.75" (44.45)  
B: 5.08" (129.03)

#### HBLALU7620 Series Aluminum Raceway

Description  
Aluminum Raceway, Three Channel,  
Satin Anodized Finish.



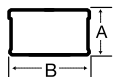
A: 2.25" (57.15)  
B: 7.62" (193.55)



### Steel Pre-Wired Raceway (LINKOSITY® devices may be utilized with this Raceway Series)

#### HBL3000 Series Metal Raceway

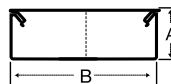
Description  
Steel Raceway, Single Channel,  
Ivory or Gray Finish.



A: 1.53" (38.86)  
B: 2.75" (69.85)

#### HBL4750 Series Metal Raceway

Description  
Steel Raceway, Single or  
Two Channel (with Divider),  
Ivory or Gray Finish.



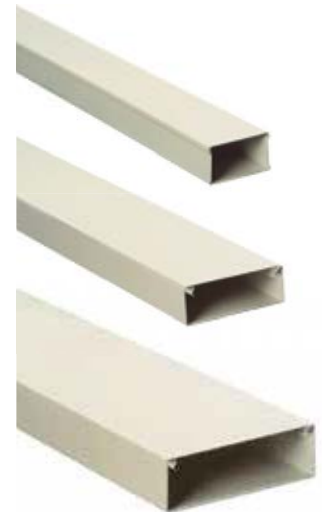
A: 1.75" (44.45)  
B: 4.75" (120.65)

#### HBL6750 Series Metal Raceway

Description  
Steel Raceway, Single,  
Two Channel (with One Divider)  
or Three Channel (with Two Dividers),  
Ivory or Gray Finish.



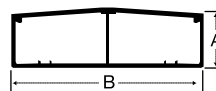
A: 2.22" (56.39)  
B: 6.75" (171.45)



### Non-Metallic Pre-Wired Raceway

#### PB2 BaseTrak® Series Non-Metallic Raceway

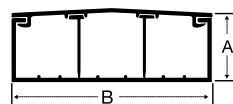
Description  
Non-Metallic Raceway,  
Two Channel,  
Office White Color.



A: 1.63" (41.40)  
B: 4.50" (114.30)

#### PS3 Super BaseTrak® Series Non-Metallic Raceway

Description  
Non-Metallic Raceway,  
Three Channel,  
Office White Color.



A: 1.97" (50.04)  
B: 6.70" (170.18)



Dimensions in Inches (mm)



## Features and Benefits



### UL Listed Modular Pre-Wired Raceway Systems Featuring the Flexibility of LINKOSITY® Connections

Hubbell Pre-Wired Metal Raceway with LINKOSITY® connections is a Hubbell innovation providing a flexible, modular UL Listed System that allows users to relocate furniture and equipment without the need to access the internal wiring of the raceway. The inherent flexibility of this system greatly reduces the cost of installation and future end-user costs associated with re-configuring space.

The Hubbell Metal Raceway/LINKOSITY combination can be provided as a factory assembled system or by having a licensed electrician purchase and field install the required LINKOSITY components into the metal raceway.

Features	Benefits
UL Listed, NEC Compliant assemblies	Complete code compliance minimizes design time, startup costs and building inspector acceptance.
Flexible, modular terminations	Simplifies moves, adds and changes. Reduces long term total cost of ownership.
Pre-configured, factory wired	Minimizes field wiring. Devices are custom configured to the application, tested and ready to install.
Cable rated TC-ER, MTW, STOOW	One cable suitable for use in all commercial applications
In-line 106 data/communications frame	Data/Communications may be field installed anywhere along the raceway eliminating large boxes.



Device Type	Ratings	Wires	Conductor Colors**	Length (FT)
<b>PH</b> = Double Ended Cable with Male/Female Straight <b>PM</b> = Male Single Ended Straight <b>PN</b> = Male Single Ended 90° <b>PF</b> = Female Single Ended Straight <b>PG</b> = Female Single Ended 90° <b>PQ</b> = Double Ended Cable with Female 90° <b>PR</b> = Double Ended Cable with Male 90° <b>PS</b> = Double Ended Cable with (2) 90° Connectors <b>RF</b> = Female Receptacle* <b>RM</b> = Male Receptacle (Inlet)* <small>* 1/2 inch NPT rear thread</small>	<b>20</b> = 20A up to 600V	<b>02</b> <b>03</b> <b>04</b> <b>05</b>	<b>PA</b> = Green/Yellow Black (all others)	<b>001</b> = 1' <b>005</b> = 5' <b>010</b> = 10' <b>015</b> = 15' <b>020</b> = 20' <b>025</b> = 25' <b>030</b> = 30' <b>035</b> = 35' <b>040</b> = 40' <b>045</b> = 45' <b>050</b> = 50'
	<b>23</b> = 20A up to 600V Specialty construction (Includes isolated ground on 6 wire and 10AWG super neutral conductor on 5 and 6 wire devices)	<b>03</b> <b>04</b> <b>05</b> <b>06</b>	<b>PB</b> = Green/Yellow White Black (all others)	
	<b>30</b> = 30A up to 600V	<b>04</b>	<b>PE</b> = All Blue***  **other color codes available upon request. ***Two wire only.	



### Cable Assemblies

The LINKOSITY® cable assemblies are code compliant with the NEC and NFPA 79, and suitable for use in virtually any environment as either a permanent or temporary installation.

### Receptacles

The UL Listed LINKOSITY® male inlets or female receptacles provide the capability of interfacing directly with facility wiring by simply mounting into established fixed enclosures.

### Closure Caps

Protects unused devices from the harmful effects of harsh environments.

### Tees

Description	Catalog Number
LINKOSITY® M/F/F Tee, 20A, 2P	<b>TX2002002002T00</b>
LINKOSITY® M/F/F Tee, 20A, 3P	<b>TX2003002003T00</b>
LINKOSITY® M/F/F Tee, 20A, 4P	<b>TX2004002004T00</b>
LINKOSITY® M/F/F Tee, 20A, 5P	<b>TX2005002005T00</b>
LINKOSITY® M/F/F Tee, 20A SNIG, 4P	<b>TX2304002304T00</b>
LINKOSITY® M/F/F Tee, 20A SNIG, 6P	<b>TX2306002306T00</b>
LINKOSITY® M/F/F Tee, 20A SNIG, A Phase Tap	<b>TX2306002304A00</b>
LINKOSITY® M/F/F Tee, 20A SNIG, B Phase Tap	<b>TX2306002304B00</b>
LINKOSITY® M/F/F Tee, 20A SNIG, C Phase Tap	<b>TX2306002304C00</b>
LINKOSITY® M/F/F Tee, 30A, 4P	<b>TX3004003004T00</b>

### Specifications

Material	
Raceway	Steel, Anodized Aluminum
LINKOSITY Cables	UL 600V Type TC-ER, MTW, STOOW, polyurethane overmolded terminations
Codes/Standards	
Raceway	UL5, surface metal raceway and fittings C22.2 no. 62, surface metal raceway and fittings TIA/EIA 569B, commercial building standard for telecom pathways and spaces
LINKOSITY	UL2238, UL50

# SECTION S

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Hubbell Trench Duct Series



Hubbell Wall Duct Series



Hubbell Underfloor Duct Series



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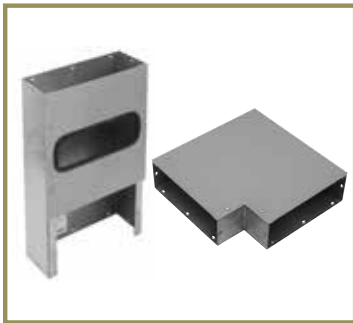
# Trench and Wall Duct Products

## Products at a Glance



### Hubbell Trench Duct Series

The Hubbell Trench system is an in-floor wire management system that meets today's high capacity wiring needs that require multiple circuit separation. Trench duct is commonly used as a feeder system for medical wall duct when installing radiology equipment such as X-Ray and MRI machines.



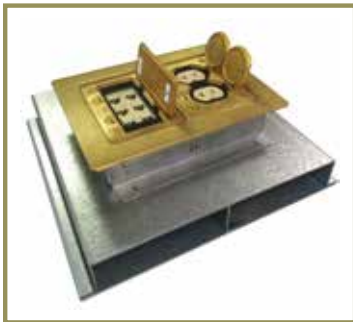
### Hubbell Wall Duct Series

The Hubbell Wall Duct is available in either flush or surface mount and a combination will usually be required on any job. Vertical runs in the walls are usually flush mounted with horizontal runs on walls and all duct in ceiling plenum are typically surface type.



### Hubbell Underfloor Duct Series

The Hubbell Underfloor Duct system is an in-slab wire management product for delivering power, voice and data services for applications that include retail facilities, open office workstations, fitness centers, casinos, medical facilities and libraries.



### Underfloor Duct Raceway Activation Kits

- Available in brass and brushed aluminum to meet aesthetic requirements
- Available in one, two and three-gang options
- ScrubShield® Complies with UL514A scrub water requirements
- Flanged design may be used in tile, wood, carpet, terrazzo and bare concrete applications
- Uniform look when used in same areas where Hubbell floor boxes are installed

**Floor Boxes**  
**SystemOne Recessed 2 Gang Floor Box**  
 For Use in Concrete Floors

**Features**

- Designed for applications with minimum slab thickness
- Stamped steel construction
- Pre and post-pour equipment
- Patent pending, laser cutting, steel insert duct plates
- Rectangular covers

**Ordering Information**

- A 1/4" (6.35mm) depth cover must be installed over recessed floor boxes per the listed standard or other methods.
- A 1/4" (6.35mm) depth cover must be installed over recessed floor boxes per the listed standard or other methods.

Ordering Number	MPN Number	Color Finish	Box Type
2410000	2410000	2410000	2410000

**Specifications**

Ordering Number	MPN Number	Color Finish	Box Type
2410000	2410000	2410000	2410000

**Required Items**

- Surface One Rectangular Covers (See link with [Click here](#))
- High Style Rectangular Covers (See link with [Click here](#))

**Accessories**

- 1/4" (6.35mm) depth cover
- 1/4" (6.35mm) depth cover

**Online Resources**

- [Click here](#)
- [Click here](#)

### eSpec Sheets Available Online

- Product Features
- Specifications
- Dimensions
- Performance
- Complementary Products

# Trench and Wall Duct Products

## Features and Benefits

### A high capacity trench system for in-floor wire management.

The Hubbell Trench system is an in-floor wire management system that meets today's high capacity wiring needs that require multiple circuit separation. Trench duct is commonly used as a feeder system for medical wall duct when installing radiology equipment such as X-Ray and MRI machines. Trench duct is also used as a stand alone system for commercial and retail applications where ease of access and high capacity are crucial variables.



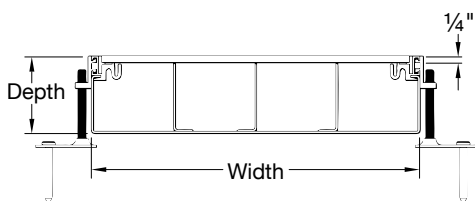
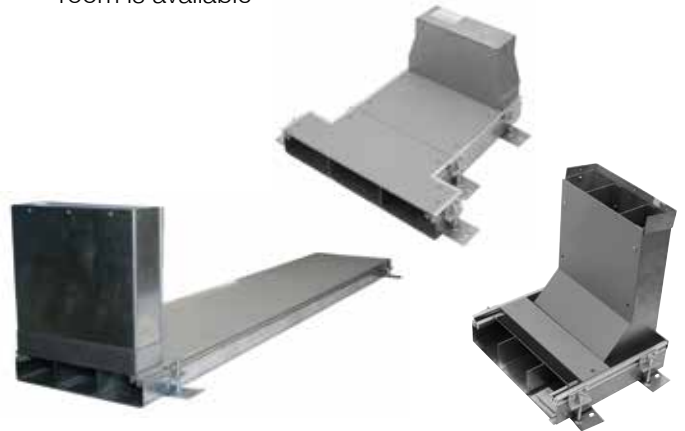
### Multiple compartments provide more capacity than conventional ducts.

The Hubbell Trench system provides more capacity than conventional conduits and ducts. It features a single, high-capacity duct with multi-compartments for easy placement of additional wiring.

It's open top design allows wiring to be laid in the duct instead of being pulled, eliminating the need for junction boxes.

Removable covers are 1/4" thick and lock into the track of the trench. Internal dividers and/or support strips increase load capacity of heavy-duty cover. These removable covers allow free access to wiring and can be placed anywhere along the duct for easy wire exit relocation.

- High capacity design supports large wiring for single and multiple service requirements
- Open top design allows wire to be easily laid in duct
- Cover plates are removable and adjust horizontally to any point along the duct. Custom lengths of trench and fittings are available. Provided in either galvanized G90 steel or nonferrous aluminum.
- Multiple compartment options allows for multiple circuit and low voltage separation
- Innovative duct support assembly allows for pre-pour leveling
- Packaging and labeling by project floor and room is available



### Trench Duct Range of Offering

Trench Product	Depth		Compartments	Cover Plate
	1/2" Increments	Width		
OKA = Trench	A = 2"	9	1C = 1 Compartment	1/4" = 1/4" thick
OKB = Pull Box	B = 2 1/2"	12	2C = 2 Compartment	
OKC = Exit Cover	C = 3"	18	3C = 3 Compartment	
OKE = End Cap	D = 3 1/2"	24	4C = 4 Compartment	
OKL = Horizontal L	E = 4"	(Other Widths Avail.)		
OKR = Vertical Riser	J = 6"			
OKT = T Junction Box	N = 8"			
OKX = X Junction Box	(Other Depths Available)			

Note: For Aluminum Trench Duct or Fittings, add "AL" suffix to catalog number.

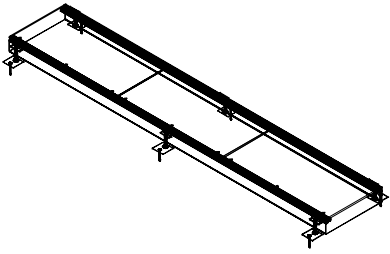


# Trench and Wall Duct Products

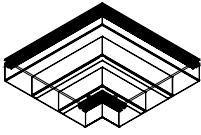
## Hubbell Trench Duct Series and Fittings

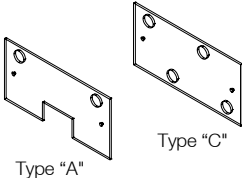
### Ordering Information Notes:

1. Common use sizes are listed below. Contact factory for other configurations or see page S-3 for Range of Offering table.
2. Trench Duct part numbers are for reference only. All Trench Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

Trench Duct	Description	Trench Depth	Cover Width	No. of Compartments	Catalog Number	
	<b>Straight Section</b>	2½"	9"	1	<b>OKA/B9-1C-1/4</b>	
	Manufactured in standard 6' lengths with factory installed dividers.	3"	9"	2	<b>OKA/C9-2C-1/4</b>	
	Provided with (3) leveling feet/couplers on each side, (3) 24" long cover plates and (3) cover plate joint protectors.	2½"	12"	2	<b>OKA/B12-2C-1/4</b>	
		3"	12"	3	<b>OKA/C12-3C-1/4</b>	
		2½"	18"	3	<b>OKA/B18-3C-1/4</b>	
		3"	18"	4	<b>OKA/C18-4C-1/4</b>	
		2½"	24"	3	<b>OKA/B24-3C-1/4</b>	
	3"	24"	4	<b>OKA/C24-4C-1/4</b>		

Note: For Aluminum Trench Duct or Fittings, add "AL" suffix to catalog number.

Fittings	Description	Outside Cover	No. of Compartments	Catalog Number	
	<b>Horizontal "L" Fitting</b>	12" x 12"	1	<b>OKL/B9-1C</b>	
	Manufactured with a single cover and matching internal partitions to form a 90° horizontal "L".	12" x 12"	2	<b>OKL/C9-2C</b>	
	Includes cover plate joint protectors and leveling feet.	15" x 15"	2	<b>OKL/B12-2C</b>	
		15" x 15"	3	<b>OKL/C12-3C</b>	
		21" x 21"	3	<b>OKL/B18-3C</b>	
		21" x 21"	4	<b>OKL/C18-4C</b>	
		27" x 27"	3	<b>OKL/B24-3C</b>	
		27" x 27"	4	<b>OKL/C24-4C</b>	
	<b>Horizontal 45° Elbow Fitting</b>	45°	1	<b>OKL/B9-1Cx45</b>	
	Manufactured with a split cover plate and matching internal partitions to form a 45° Mitered "L".	45°	2	<b>OKL/C9-2Cx45</b>	
	Other angles available. Includes cover plate joint protectors and leveling feet.	45°	2	<b>OKL/B12-2Cx45</b>	
		45°	3	<b>OKL/C12-3Cx45</b>	
		45°	3	<b>OKL/B18-3Cx45</b>	
		45°	4	<b>OKL/C18-4Cx45</b>	
		45°	3	<b>OKL/B24-3Cx45</b>	
		45°	4	<b>OKL/C24-4Cx45</b>	
	<b>Single Level "T" Junction Fitting</b>	15" x 12"	1	<b>OKT/B9-1C</b>	
Manufactured with matching internal partitions and crossovers to isolate power and communications.	15" x 12"	2	<b>OKT/C9-2C</b>		
Includes cover plate joint protectors and leveling feet.	18" x 15"	2	<b>OKT/B12-2C</b>		
	18" x 15"	3	<b>OKT/C12-3C</b>		
	24" x 21"	3	<b>OKT/B18-3C</b>		
	24" x 21"	4	<b>OKT/C18-4C</b>		
	30" x 27"	3	<b>OKT/B24-3C</b>		
	30" x 27"	4	<b>OKT/C24-4C</b>		
<b>Pull Box</b>	9" x 12"	1	<b>OKB/B9-1C</b>		
Manufactured to attach to trench section replacing end cap. Divided into compartments as shown.	9" x 12"	2	<b>OKB/C9-2C</b>		
Additional depth permits attachment of large conduits. Box is field punched for conduits.	12" x 12"	2	<b>OKB/B12-2C</b>		
Standard depth is 6".	12" x 12"	3	<b>OKB/C12-3C</b>		
	18" x 12"	3	<b>OKB/B18-3C</b>		
	18" x 12"	4	<b>OKB/C18-4C</b>		
	24" x 12"	3	<b>OKB/B24-3C</b>		
	24" x 12"	4	<b>OKB/C24-4C</b>		

Exit Cover Fittings	Description	Trench Width	Max Size Conduit	Catalog Number	
	<b>Exit Cover</b>	9"	¾"	<b>OKC/9-3/4A</b>	
	Designed to provide exit and feed for Trench Duct. Conduit openings are provided for power and communication exit or feed using conventional fittings or service fittings. Cable Exit Cap (OKSK) is for communication cable only. Exit fittings cover may be spaced anywhere along the length of the trench.	12"	¾"	<b>OKC/12-3/4A</b>	
	All exit fitting covers are 6" long.	18"	¾"	<b>OKC/18-3/4A</b>	
		24"	¾"	<b>OKC/24-3/4A</b>	
		9"	¾"	<b>OKC/9-3/4C</b>	
		12"	¾"	<b>OKC/12-3/4C</b>	
		18"	¾"	<b>OKC/18-3/4C</b>	
		24"	¾"	<b>OKC/24-3/4C</b>	
	<b>Cable Exit Cap</b>	All	—	<b>OKSK</b>	
Fits opening in Type "A" Exit Cover. Provides outlet for communication cable. Debris barrier included. Cable Exit Cap constructed from die cast aluminum. For use with Type "A" exit covers only.					

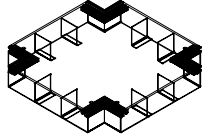

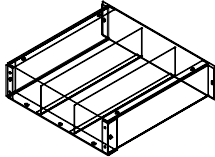


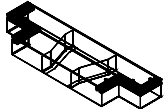
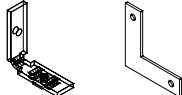
# Trench and Wall Duct Products

## Hubbell Trench Duct Fittings

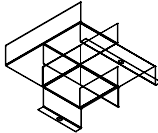
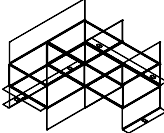
### Ordering Information Notes:

1. Common use sizes are listed below. Contact factory for other configurations or see page S-3 for Range of Offering table.
2. Trench Duct part numbers are for reference only. All Trench Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

Fittings	Description	Outside Cover	No. of Compartments	Catalog Number	
	<b>Single Level "X" Junction Fitting</b>	Manufactured with matching internal partitions and crossovers to isolate power and communications. Includes cover plate joint protectors and leveling feet.	15" x 15" 15" x 15" 18" x 18" 18" x 18" 24" x 24" 24" x 24" 30" x 30" 30" x 30"	1 2 2 3 3 4 3 4	
Fittings	Description	Fits Trench Dim. (Width x Depth)	Max Trade Size Conduit	Catalog Number	
	<b>End Cap</b>	Fits over end of trench run to close trench and prevent foreign material from entering. End cap may be drilled to accept conduit.	9" x 2½" 9" x 3" 12" x 2½" 12" x 3" 18" x 2½" 18" x 3" 24" x 2½" 24" x 3"	¾" 1" ¾" 1" ¾" 1" ¾" 1"	
Fittings	Description	Fits Trench Width	No. of Compartments	Catalog Number	
	<b>Vertical Riser Fitting (Straight)</b>	Manufactured to transition from trench duct to a panel, pull box or to conduit. Mounts on trench in place of cover. Partitioned to separate cells and flanged to attach to a pull box or panel. Removable front cover and top cover. Includes OWW trench-to-wall duct adapter. Standard height above finish floor — 12". Standard depth — 3½". Available in a sweep version (replace OKR with OKSWR)	9" 9" 12" 12" 18" 18" 24" 24"	1 2 2 3 3 4 3 4	

Additional Fittings	Description	Trench Width #1	Trench Width #2	Catalog Number	
	<b>Reducer Fitting</b>	Manufactured to transition from a wide trench duct width to a narrower trench duct width.	9" 12" 18" 24"	6" 9" 12" 18"	
Additional Fittings	Description	Horizontal Angle	Vertical Angle	Catalog Number	
	<b>Fastening Angles</b>	Accessories to join trench sections for field fabrication of horizontal and vertical assemblies.	—	<b>OK/VWI</b> <b>OK/VVW</b>	

Trench Duct Accessories	Description	Accessory Type	Catalog Number
	Permits 1" of pre-pour vertical adjustment and couples sections together. "x" represents screw height (max. 6") and height of trench. Additional vertical adjustment is available by increasing the length of screw "x".	Single Leveling Foot Assembly	<b>OK/F-x</b>
	Provides a 1½" wide surface (with gasket) for cover plate joints. "x" represents trench width.	Single Cover Plate Joint Protector	<b>OK/DSD-x</b>
	Separates trench duct compartments. "x" represents trench depth (see catalog number system).	Divider	<b>OKP/x</b>
Provided with 5/16" x 18 bolts on 6" or 12" centers for increased cover plate weight loading capability.	Support Stud Strip	<b>Consult Factory</b>	

Tunnel Fittings	Description	No. of Compartments	"T" Unit Fitting Type	"X" Unit Fitting Type
	<b>Tunnels</b>	Factory installed inside of multi-compartment "T" and "X" units to maintain separation of services. May be ordered separately and field installed.	2, 3, or 4	<b>Consult Factory</b>
				

# Trench and Wall Duct Products

## Features and Benefits

The Hubbell Wall Duct is a UL Listed metal raceway system designed for the enclosure of wiring of MRI or X-Ray equipment in medical applications. The system provides complete lay-in wiring capability in order to accommodate the large cables and connectors used in today's installations.

Hubbell Wall Duct is available in either flush or surface mount and a combination will usually be required on any job. Vertical runs in the walls are usually flush mounted with horizontal runs on walls and all duct in ceiling plenum are typically surface type.

Wall Duct is available in ferrous steel and non-ferrous aluminum versions.



- Lay in wiring accommodates large cables and connectors to connect equipment
- Corrosion resistant galvanized A60 steel or non ferrous aluminum versions
- Flush (primarily wall) and Surface (primarily ceiling) mount provides flexibility to address specific equipment placement and unique room design requirements
- Hubbell Wall Duct is utilized with Hubbell Trench Duct
- Packaging and labeling by project floor and room is available



## Wall Duct Range of Offering

Wall Duct Product		Depth ½" Increments	Width	Cover Style
<b>OWA</b> = Wall Duct	<b>OWI</b> = Internal Elbow	<b>A</b> = 2"	<b>6</b>	<b>S</b> = Surface
<b>OWB</b> = Adapter	<b>OWL</b> = External Elbow	<b>B</b> = 2½"	<b>10</b>	<b>F</b> = Flush
<b>OWC</b> = Coupling	<b>OWP</b> = Partition	<b>C</b> = 3"	<b>12</b>	
<b>OWD</b> = Reducer Coupling	<b>OWR</b> = Vertical Riser	<b>D</b> = 3½"	<b>18</b>	
<b>OWE</b> = End Closure	<b>OWT</b> = T Unit	<b>E</b> = 4"	(Other	
<b>OWF</b> = Cabinet Connector	<b>OWV</b> = Trench to Wall Duct Adapter	<b>J</b> = 6"	Widths	
<b>OWH</b> = Horizontal Elbow	<b>OWX</b> = X Unit	<b>N</b> = 8"	Available)	
		(Other Depths Available)		

Note: For Aluminum Wall Duct or Fittings, add "AL" suffix to catalog number.

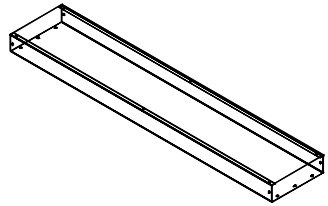
# Trench and Wall Duct Products

## Hubbell Wall Duct Series and Fittings

### Ordering Information Notes:

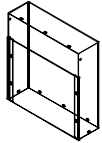
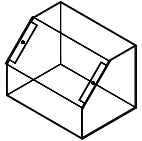
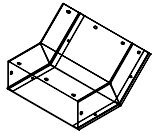
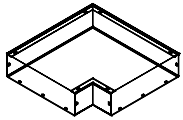
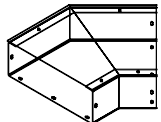
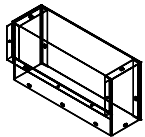
1. Common use sizes are listed below. Contact factory for other configurations or see page S-6 for Range of Offering table.
2. Wall Duct part numbers are for reference only. All Wall Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

Wall Duct	Description	Overall Depth	Body Width	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number
	<b>Wall and Ceiling Duct</b> Manufactured in standard 60" lengths with two 30" long cover plates. Provided with one coupling and necessary screws.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWA/D10F</b>	10"	<b>OWA/D10S</b>
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OWA/D12F</b>	12"	<b>OWA/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OWA/D18F</b>	18"	<b>OWA/D18S</b>	



Note: For Aluminum Wall Duct or Fittings, add "AL" suffix to catalog number.

Elbow Fittings	Description	Overall Depth	Body Width	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number
	<b>Internal Elbow</b> Forms a sharp 90° Internal "L". Provided with one cover plate, one coupling and necessary screws.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OVI/D10F</b>	10"	<b>OVI/D10S</b>
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OVI/D12F</b>	12"	<b>OVI/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OVI/D18F</b>	18"	<b>OVI/D18S</b>	
<b>Internal Elbow, Sweep</b> Forms a chamfered 90° Internal "L" for increased cable bend radius. Provided with one cover plate, one coupling and necessary screws.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OOWSWI/D10F</b>	10"	<b>OOWSWI/D10S</b>	
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OOWSWI/D12F</b>	12"	<b>OOWSWI/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OOWSWI/D18F</b>	18"	<b>OOWSWI/D18S</b>	
<b>Internal 45° Elbow</b> Forms a 45° Vertical "L". Provided with one cover plate, one coupling and necessary screws.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OVI45/D10F</b>	10"	<b>OVI45/D10S</b>	
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OVI45/D12F</b>	12"	<b>OVI45/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OVI45/D18F</b>	18"	<b>OVI45/D18S</b>	
<b>Horizontal Elbow</b> Forms a 90° Horizontal "L". Provided with one cover plate, one coupling and necessary screws. Corner divider "OWCP" ordered separately.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWH/D10F</b>	10"	<b>OWH/D10S</b>	
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OWH/D12F</b>	12"	<b>OWH/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OWH/D18F</b>	18"	<b>OWH/D18S</b>	
<b>Horizontal 45° Elbow</b> Forms a 45° Horizontal "L". Provided with one cover plate, one coupling and necessary screws.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OOWH45/D10F</b>	10"	<b>OOWH45/D10S</b>	
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OOWH45/D12F</b>	12"	<b>OOWH45/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OOWH45/D18F</b>	18"	<b>OOWH45/D18S</b>	
<b>External Elbow</b> Forms a sharp 90° External "L". Provided with two cover plates, one coupling and necessary screws.	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWL/D10F</b>	10"	<b>OWL/D10S</b>	
	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OWL/D12F</b>	12"	<b>OWL/D12S</b>	
	3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OWL/D18F</b>	18"	<b>OWL/D18S</b>	

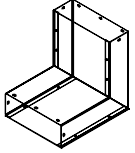
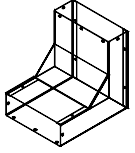
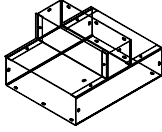
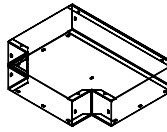
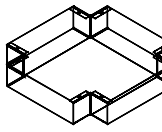
Note: Images shown are surface mount.

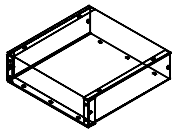
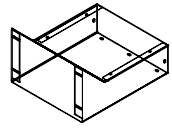
# Trench and Wall Duct Products

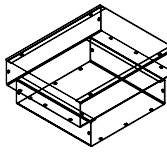
## Hubbell Wall Duct Fittings

### Ordering Information Notes:

1. Common use sizes are listed below. Contact factory for other configurations or see page S-6 for Range of Offering table.
2. Wall Duct part numbers are for reference only. All Wall Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

	Description	Overall Depth	Body Width	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number		
Internal / External Elbows	<b>Internal / External Elbow</b>	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	—	10"	<b>SPOWI/D10S</b>		
	Transitions from surface wall duct to surface style ceiling duct. Flush wall duct to surface style ceiling duct available upon request. Provided with two cover plates, one coupling and necessary screws.	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	—	12"	<b>SPOWI/D12S</b>		
		3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	—	18"	<b>SPOWI/D18S</b>		
	Internal / External Elbow, Sweep	<b>Internal / External Elbow, Sweep</b>	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	—	10"	<b>SPOWSWI/D10S</b>	
		Transitions from surface wall duct to surface style ceiling duct. Flush wall duct to surface style ceiling duct available upon request. Provided with two cover plates, one coupling and necessary screws.	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	—	12"	<b>SPOWSWI/D12S</b>	
			3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	—	18"	<b>SPOWSWI/D18S</b>	
"T" Units	<b>Vertical "T" Unit</b>	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWVT/D10F</b>	10"	<b>OWVT/D10S</b>		
	Forms a 90° Vertical "T". Provided with three cover plates, two couplings and necessary screws.	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OWVT/D12F</b>	12"	<b>OWVT/D12S</b>		
		3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OWVT/D18F</b>	18"	<b>OWVT/D18S</b>		
	Horizontal "T" Unit	<b>Horizontal "T" Unit</b>	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWT/D10F</b>	10"	<b>OWT/D10S</b>	
		Forms a 90° Horizontal "T". Provided with one cover plate, one coupling and necessary screws. Tunnels are ordered separately.	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OWT/D12F</b>	12"	<b>OWT/D12S</b>	
			3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OWT/D18F</b>	18"	<b>OWT/D18S</b>	
"X" Unit	<b>"X" Unit</b>	3½"	9 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWX/D10F</b>	10"	<b>OWX/D10S</b>		
	Forms intersection of four perpendicular ducts. Provided with one cover plate, two coupling and necessary screws. Tunnels are ordered separately.	3½"	11 <sup>13</sup> / <sub>16</sub> "	14"	<b>OWX/D12F</b>	12"	<b>OWX/D12S</b>		
		3½"	17 <sup>13</sup> / <sub>16</sub> "	20"	<b>OWX/D18F</b>	18"	<b>OWX/D18S</b>		

	Description	For Trench Width	For Wall Duct (Width x Depth)	Flush Catalog Number	Surface Catalog Number		
Vertical Riser Fittings	<b>Vertical Riser Fitting, Straight</b>	10"	10" x 3½"	<b>OWR/D10F</b>	<b>OWR/D10S</b>		
	Transitions from trench duct to a vertical run of wall duct. Mounts on trench in place of cover. Removable front cover. Standard height above finish floor — 12" (7" for OWR/D12x10). Standard depth — 3½". Provided with one coupling and necessary screws.	12"	12" x 3½"	<b>OWR/D12F</b>	<b>OWR/D12S</b>		
		18"	18" x 3½"	<b>OWR/D18F</b>	<b>OWR/D18S</b>		
		12"	10" x 3½"	<b>OWR/D12-10F</b>	<b>OWR/D12-10S</b>		
	Vertical Riser Fitting, Sweep	<b>Vertical Riser Fitting, Sweep</b>	10"	10" x 3½"	<b>OOWSWR/D10F</b>	<b>OOWSWR/D10S</b>	
		Transitions from trench duct to a vertical run of wall duct. Mounts on trench in place of cover. Removable front cover. Standard height above finish floor — 12". Standard depth — 3½". Provided with one coupling and necessary screws.	12"	12" x 3½"	<b>OOWSWR/D12F</b>	<b>OOWSWR/D12S</b>	
		18"	18" x 3½"	<b>OOWSWR/D18F</b>	<b>OOWSWR/D18S</b>		
		12"	10" x 3½"	<b>OOWSWR/D12-10F</b>	<b>OOWSWR/D12-10S</b>		

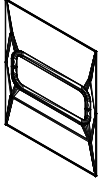
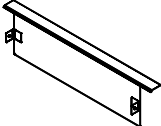
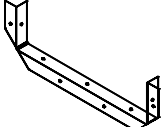
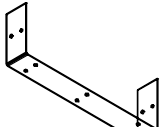
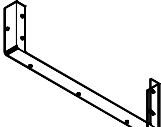
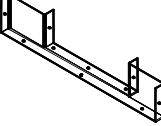
	Description	Overall Depth	Flush Wall Duct Body Width	Surface Cover Width	Catalog Number	
Adapter Fitting	<b>Flush to Surface Adapter</b>	3½"	9 <sup>13</sup> / <sub>16</sub> "	10"	<b>OWB/D10-10</b>	
	Transitions from flush wall duct to perpendicular surface wall duct. Provided with one cover plate, two couplings and necessary screws.	3½"	11 <sup>13</sup> / <sub>16</sub> "	18"	<b>OWB/D12-18</b>	
		3½"	17 <sup>13</sup> / <sub>16</sub> "	12"	<b>OWB/D18-12</b>	
		3½"	17 <sup>13</sup> / <sub>16</sub> "	18"	<b>OWB/D18-18</b>	

# Trench and Wall Duct Products

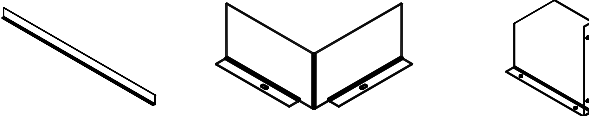
## Hubbell Wall Duct Fittings

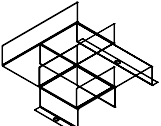
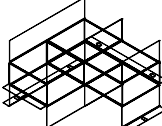
### Ordering Information Notes:

1. Common use sizes are listed below. Contact factory for other configurations or see page S-6 for Range of Offering table.
2. Wall Duct part numbers are for reference only. All Wall Duct orders are lot billed with a generic TW prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

Additional Fittings	Description	Overall Depth	Cover Width	Flush Catalog Number	Cover Width	Surface Catalog Number	
	<b>Split Cover Plate</b> Provides wire egress from raceway. Provided with assembly screws and grommet material.	—	12"	<b>OWSC/10F</b>	10"	<b>OWSC/10S</b>	
		—	14"	<b>OWSC/12F</b>	12"	<b>OWSC/12S</b>	
		—	20"	<b>OWSC/18F</b>	18"	<b>OWSC/18S</b>	
	<b>End Cap</b> Closes off end of wall duct. Screws provided.	3½"	12"	<b>OWE/D10F</b>	10"	<b>OWE/D10S</b>	
		3½"	14"	<b>OWE/D12F</b>	12"	<b>OWE/D12S</b>	
		3½"	20"	<b>OWE/D18F</b>	18"	<b>OWE/D18S</b>	
<b>Cabinet Connector</b> Connects wall duct to enclosures. Designed to be positioned around outside surface of duct and secured with screws from inside of duct. Screws provided.	3½"	12"	<b>OWF/D10</b>	10"	<b>OWF/D10</b>		
	3½"	14"	<b>OWF/D12</b>	12"	<b>OWF/D12</b>		
	3½"	20"	<b>OWF/D18</b>	18"	<b>OWF/D18</b>		
<b>Coupling</b> Joins surface or flush wall duct sections together. Designed to be positioned around outside surface of duct and secured with screws from inside of duct. Screws provided.	3½"	12"	<b>OWC/D10</b>	10"	<b>OWC/D10</b>		
	3½"	14"	<b>OWC/D12</b>	12"	<b>OWC/D12</b>		
	3½"	20"	<b>OWC/D18</b>	18"	<b>OWC/D18</b>		
<b>Trench to Wall Duct Adapter</b> Transitions from trench duct to a vertical run of wall duct when not using the OWR series Vertical Riser. Mounts on trench in place of cover. Provided with necessary screws.	3½"	12"	<b>OWV/D10</b>	10"	<b>OWV/D10</b>		
	3½"	14"	<b>OWV/D12</b>	12"	<b>OWV/D12</b>		
	3½"	20"	<b>OWV/D18</b>	18"	<b>OWV/D18</b>		
<b>Reducer Coupling</b> Joins two sizes of surface or flush wall duct sections together. Designed to be positioned around outside surface of duct and secured with screws from inside of duct. Screws provided.	3½"	20" to 12"	<b>OWD/D (18-10)</b>	18" to 10"	<b>OWD/D (18-10)</b>		
	3½"	20" to 14"	<b>OWD/D (18-12)</b>	18" to 12"	<b>OWD/D (18-12)</b>		

Note: Grommet material is available to cover field cut openings in Wall Duct. Outside dimensions of grommet is ¼" x 5/16" and is made from SBR rubber. Catalog number GROM-xx ("xx" represents length in feet).

Partitions Fittings	Description	For Overall Raceway Depth	For Fitting Style		
			Straight (Length 60")	Horizontal "L"	Internal Sweep Elbow
<b>Internal Duct Partitions</b> Divides raceway and fittings into compartments. Screws provided.	3½"	<b>OWP/D</b>	<b>OWCP/D</b>	<b>OWSWP/D</b>	

Tunnel Fittings	Description	No. of Compartments	"T" Unit Fitting Type		"X" Unit Fitting Type	
			Consult Factory		Consult Factory	
<b>Tunnels</b> Field installed inside of multi-compartment "T" and "X" units to maintain separation of services. May be factory installed.	2, 3, or 4	2, 3, or 4				



# Underfloor Duct Products

## Features and Benefits

Open Offices



Casinos



Retail



Fitness



Retrofit



## Multi-Compartment Underfloor Duct Saves Time and Money in Your In-Slab Wire Management System

The Hubbell Underfloor Duct system is an in-slab wire management product for delivering power, voice and data services for applications that include retail facilities, open office workstations, fitness centers, casinos, medical facilities and libraries. This system is uniquely designed with multiple compartments, allowing unlimited design options and cost savings in labor and materials from other single-compartment systems. Matched with our strong national distribution and complete technical/application support, the Hubbell Underfloor Duct System is the perfect solution for your underfloor wire management needs.

### Key Features and Benefits

- Eight duct profiles available to accommodate numerous in-slab wire management for power and communications.
- One-piece design multi-compartment duct, drastically reducing installation and material costs.
- Standard insert heights ranging from 1 to 3 inches (other heights available).
- Inclusive tile trim in square-top junction boxes, providing the installer the on-site option of using the trim or leaving it recessed.
- Combination duct coupler/support, reducing material and labor costs using the same part to join raceway sections together and to support/level the duct.
- Activation inserts are pre-assembled to the duct, or the inserts can be purchased separately for field installation only where you need them.
- Heavy duty junction boxes are available for areas requiring high-concentrated floor loads.
- Meets or exceeds UL 884 specifications, assuring a fully UL Listed system from one manufacturer.

### Flush Insert Duct Benefits

- Provides an aesthetic wire management solution for delivering power and communications services.
- Unique multi-gang flush inserts with removable voltage dividers provide the flexibility of installing multiple gangs of the same service at each insert location.
- Individual gangs can be activated as needed - keeps costs down.
- Activation trims accept standard Hubbell floor box covers for power and data, available in aluminum and brass.

### Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

## Conventional, Flush and Blank Underfloor Duct Profiles

### Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

- All duct comes in standard 10 ft. lengths
- 14 gauge, G90 galvanized steel
- 2 Inch IPS (Iron Pipe Size) round inserts are die-cast zinc
- Rectangular inserts are 14 gauge, G90 galvanized steel

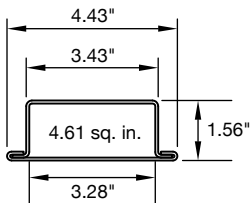
### Catalog Number System

	SP202F	-	2	-	12	
	Profile		Insert Height		Insert Spacing	
Round Insert Duct and Blank Duct	201		B = Blank		12 = 12"	
	201W		1 = 1" (201 only)		24 = 24"	
	202		15 = 1 1/2"		(consult factory for special preset spacing)	
	202W		2 = 2"			
	203		25 = 1 1/2"			
	204		3 = 3**		n/a for Blank Duct	
Flush Insert Duct	201F		1 = 1" (201F only)		12 = 12"	
	201WF		15 = 1 1/2***		24 = 24"	
	202F		2 = 2"		(consult factory for special preset spacing)	
	202WF		25 = 2 1/2"			
	203F		3 = 3**			

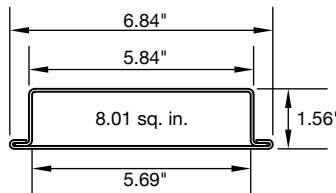
Note: \*Consult factory for heights greater than 3".  
\*\* 1 1/2" min. required for duplex receptacles.

### Dimensions

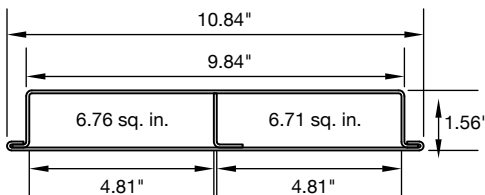
#### 201 & 201F



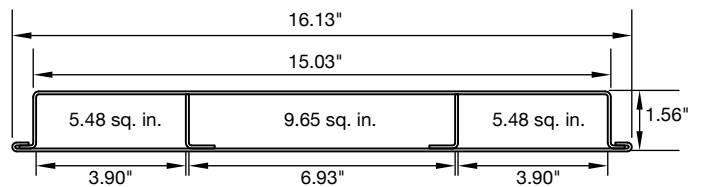
#### 201W & 201WF



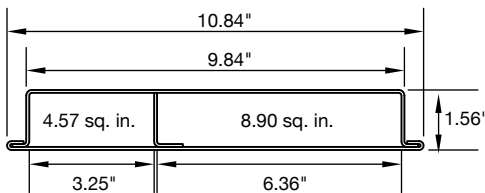
#### 202 & 202F



#### 203



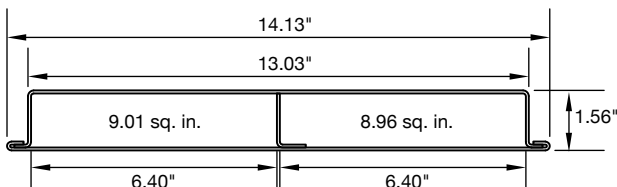
#### SP202 & SP202F



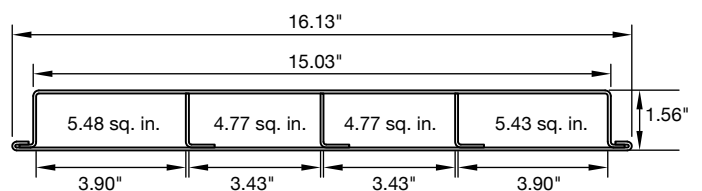
#### 203F



#### 202W & 202WF



#### 204



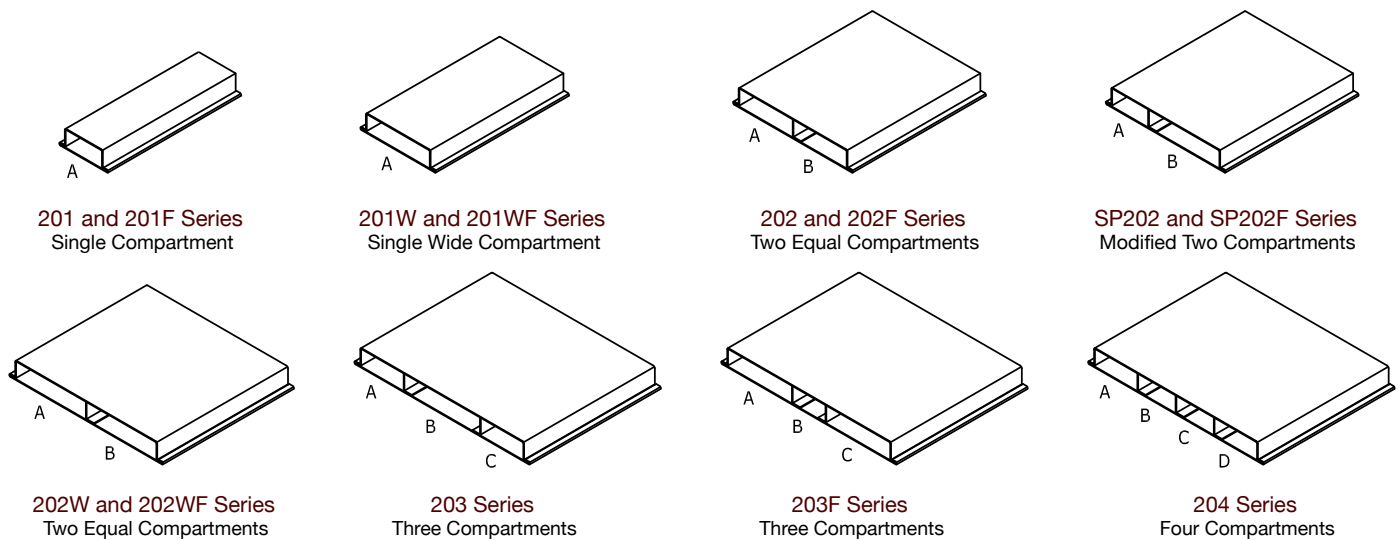
## Technical Information and Wire Fill Capacity Chart

### Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

Cable Type	Size	Approx. Dia. (in.)	Approx. Area (sq in.)	201		202		SP202		202W		203			203F			204				
				201F	201WF	202F		SP202F		202WF												
				Channel	A	A	A	B	A	B	A	B	A	B	C	A	B	C	A	B	C	D
Power (THHN)	14 AWG	0.111	0.0097	190	331	279	277	188	367	372	370	226	398	226	341	170	341	226	197	197	224	
	12 AWG	0.130	0.0133	138	241	203	202	137	268	271	270	165	290	165	248	124	248	165	143	143	163	
	10 AWG	0.164	0.0211	87	151	128	127	86	168	170	169	103	182	103	156	78	156	103	90	90	102	
	8 AWG	0.216	0.0366	50	87	73	73	49	97	98	97	59	105	59	90	44	90	59	52	52	59	
Coax Cables	RG-6/U	0.270	0.0573	32	55	47	46	31	62	62	62	38	67	38	57	28	57	38	33	33	37	
	RG-6/UQ	0.298	0.0697	26	45	38	38	26	51	51	51	31	55	31	47	23	47	31	27	27	31	
LAN Cables	Cat 5e	0.210	0.0346	53	92	78	77	52	102	104	103	63	111	63	95	47	95	63	55	55	62	
	Cat 6	0.250	0.0491	37	65	55	54	37	72	73	73	44	78	44	67	33	67	44	38	38	44	
	Cat 6A	0.350	0.0962	19	33	28	27	18	37	37	37	22	40	22	34	17	34	22	19	19	22	
Fiber Optic Distribution Cables	2-6 Strand	0.190	0.0284	65	113	95	94	64	125	127	126	77	136	77	116	58	116	77	67	67	76	
	8-12 Strand	0.230	0.0415	44	77	65	64	43	85	86	86	52	92	52	79	39	79	52	45	45	52	
	16-24 Strand	0.350	0.0962	19	33	28	27	18	37	37	37	22	40	22	34	17	34	22	19	19	22	

Note: Cable quantities shown in this chart are based on a 40% wire fill capacity. Sizes of COAX, LAN and Fiber Optic cables are provided for example only. Consult cable manufacturer's specification for exact cable sizes.



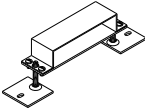
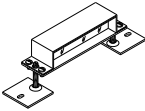
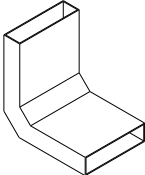
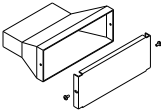
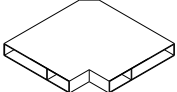
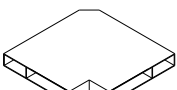
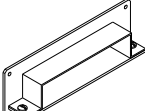
### Applicable Codes & Standards

- TIA/EIA 569-C "Commercial Building Standard for Telecommunications Pathways and Spaces"
- NEC Article 390 "Underfloor Raceways"
- Ampacity derating rules of NEC Article 310.15 (B)(3) applies to conductors installed in Underfloor Raceways and Trench Duct
- UL Standard UL 884 "Underfloor Raceways and Fittings"
- UL Listed E75939 (Underfloor Raceway) & E304554 (Underfloor raceway Fittings)

## Underfloor Duct Raceway Fittings

### Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.

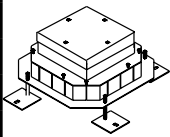
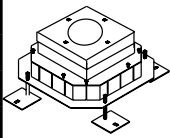
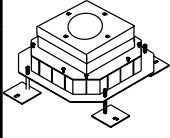
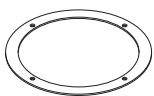
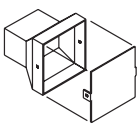
			Flush Insert Duct						Conventional Duct										
			201F	201WF	202F	SP202F	202WF	203F	201	201W	202	SP202	202W	203	204				
Coupler Support		Couples duct sections together and supports the duct. To be used every 5 feet of duct run.	201-DCS	●															
			201W-DCS		●														
			202-DCS			●	●												
			202W-DCS					●						●					
			203-DCS							●					●	●			
End Cap Support		Supports and closes unused duct ends.	201-ECS	●															
			201W-ECS		●														
			202-ECS			●	●												
			202W-ECS					●						●					
			203-ECS							●					●	●			
Vertical Riser		Transitions from duct embedded in concrete floor to vertical duct or may be used for direct connection to a Universal Conduit Adapter (UCA). Coupler / Supports (DCS) are required to attach to duct and UCA.	201-VEL	●															
			201W-VEL		●														
			202-VEL			●													
			SP202-VEL				●							●					
			202W-VEL					●							●				
			203-VEL													●			
			203F-VEL								●								
204-VEL															●				
Universal Conduit Adapter		Transitions from duct to conduit. A blank 14 gauge steel plate is provided for field punched conduit openings. For use with up to 2 1/2" trade size conduits. Consult factory for larger conduit accommodations. (may also be inserted directly into Junction Boxes)	201-UCA	●															
			201W-UCA		●														
			202-UCA			●													
			SP202-UCA				●							●					
			202W-UCA					●							●				
			203-UCA													●			
			203F-UCA									●							
204-UCA															●				
Horizontal 90 Degree Elbow	 SP202-HB90-NIR  SP202-HB90-NOR	Provides a horizontal 90 degree turn in floor duct. No hand access provided. Consult factory for other angles.  SP202-HB90's must be specified either with the Narrow Compartment located at the inside radius (-NIR) or at the outside radius (-NOR) as shown in illustration.	201-HB90	●															
			201W-HB90		●														
			202-HB90			●													
			SP202-HB90-NIR				●							●					
			SP202-HB90-NOR					●							●				
			202W-HB90					●								●			
			203-HB90														●		
203F-HB90															●				
204-HB90																●			
Cabinet Connector		Provides a means for connecting duct to an electrical cabinet	201-DCC	●															
			201W-DCC		●														
			202-DCC			●	●												
			202W-DCC					●							●				
			203-DCC							●						●	●		

## Underfloor Duct Raceway Junction Boxes and Accessories

### Ordering Information Note:

**Floor Duct part numbers are for reference only. All Floor Duct orders are not billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.**

x = Preset Insert Height  
 1 = 1" (201 & 201F only)  
 15 = 1 1/2" (min. required for duplex recept.)  
 2 = 2"  
 25 = 2 1/2"  
 3 = 3" (consult factory for heights greater than 3")

<b>Junction Box Square Access</b>  <p>For providing square opening access at intersections of Feeder Duct and Distribution Duct</p>	<b>201-JB-x</b> <b>201W-JB-x</b> <b>202-JB-x</b> <b>SP202-JB-x</b> <b>202W-JB-x</b> <b>203-JB-x</b> <b>203F-JB-x</b> <b>204-JB-x</b>
	<b>201-JB-x-RCB*</b> <b>201W-JB-x-RCB*</b> <b>202-JB-x-RCB*</b> <b>SP202-JB-x-RCB*</b> <b>202W-JB-x-RCB*</b> <b>203-JB-x-RCB*</b> <b>203F-JB-x-RCB*</b> <b>204-JB-x-RCB*</b>
	<b>202-JB-x-HD-ADJ</b> <b>SP202-JB-x-HD-ADJ</b> <b>202W-JB-x-HD-ADJ</b>
	<b>RD-BRASS*-202-ADJ</b> <b>RD-BRASS*-SP202-ADJ</b> <b>RD-BRASS*-202W-ADJ</b>
	<b>JB-CCA</b> <b>JB-CCA-1/2</b> <b>JB-CCA-3/4</b> <b>JB-CCA-1</b> <b>JB-CCA-1-1/2</b> <b>JB-CCA-2</b>
	Provides attachment point for conduit to each corner of all junction boxes. JB-CCA is provided with 14 gauge steel plate for field punched conduit opening. All other adapters are factory punched.
	Same as above except cover plates are 3/8" thick and after-pour height adjustable. Carpet Rings and Closure Caps must be ordered separately. Duct Entrance Cap - <b>HDJBDC</b> Corner Cap - <b>HDJBCC</b>
<b>Junction Box Round Access</b>  <p>For providing round opening access at intersections of Feeder Duct and Distribution Duct. Provided with Brass or Stainless Steel Carpet Ring</p> <p>*Available in Stainless Steel. To order replace B with SS</p>	1/8" thick Carpet Trim for Heavy Duty Junction Boxes. *Available in Stainless Steel. To order replace BRASS with SS
<b>Junction Box Heavy Duty Round Access</b> 	<b>Carpet Ring for Heavy Duty Junction Boxes</b> 
<b>Junction Box Conduit Adapter</b> 	

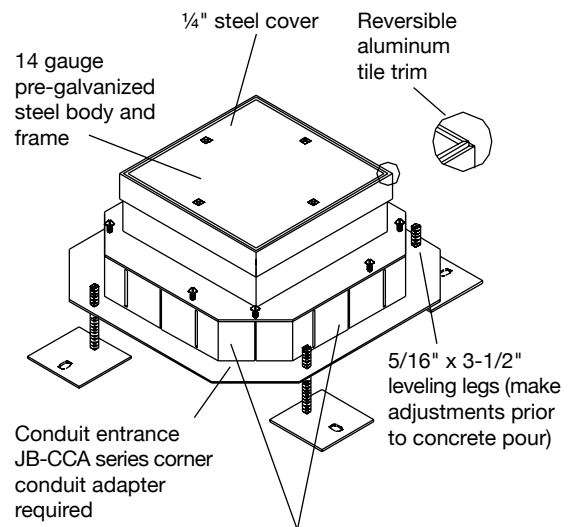
Flush Insert Duct						Conventional Duct						
201F	201WF	202F	SP202F	202WF	203F	201	201W	202	SP202	202W	203	204
●						●						
	●						●					
		●						●				
			●						●			
				●						●		
					●						●	
												●

### Hubbell Trench Duct is commonly used as a feeder system for Underfloor Duct Raceway systems.



Factory assembled Trench/Underfloor duct intersect units allow unrestricted capacity by the elimination of tunnels. Side mounted Underfloor duct is available for shallow concrete pours. Consult factory for details.

- High capacity design supports large cables for single and multiple service requirements.
- Open top design allows cables to be easily laid in duct.
- Cover plates are removable and adjust horizontally to any point along the duct.
- Custom lengths of trench and fittings are available.
- Multiple compartments allow complete separation of services.
- Innovative duct support assembly allows for pre-pour leveling and acts as a splice for duct sections.



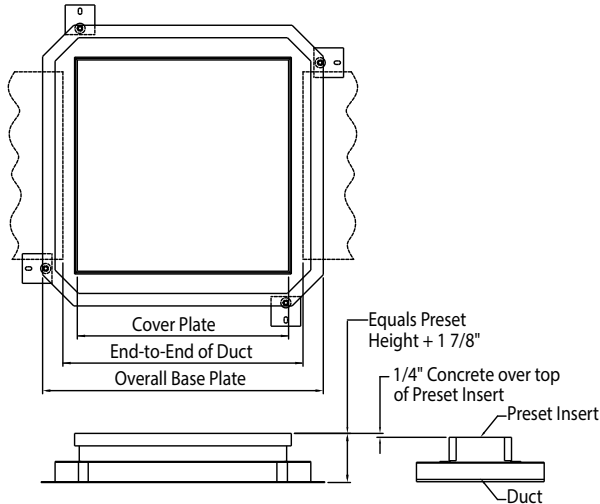
Removable pry-out sections for corner conduit adapters and duct entrances. Additional blanking plates not required for unused junction box entrances. Blanking plates must be ordered separately for heavy duty junction boxes.



## Underfloor Duct Junction Box Dimensions

### Ordering Information Note:

Floor Duct part numbers are for reference only. All Floor Duct orders are lot billed with a generic FD prefix project specific part numbers. Please contact your local Hubbell Territory Manager for all Hubbell Duct quotations.



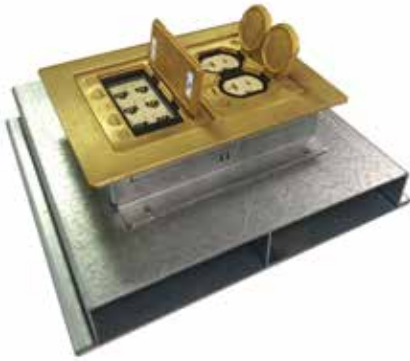
Junction Box Catalog Number	Cover Plate	End-To-End Of Duct	Overall Base Plate
201-JB-x 201-JB-x-RCx	6 5/16"	8"	10 1/2"
201W-JB-x 201W-JB-x-RCx	12 9/16"	14 1/2"	17 13/16"
202-JB-x 202-JB-x-RCx			
SP202-JB-x SP202-JB-x-RCx			
202W-JB-x 202W-JB-x-RCx	17"	19 5/8"	22 11/16"
203-JB-x 203-JB-x-RCx			
203F-JB-x 203F-JB-x-RCx			
204-JB-x 204-JB-x-RCx			
202-JB-x-HD-ADJ SP202-JB-x-HD-ADJ 202W-JB-x-HD-ADJ	Consult Factory For Dimensions		

## Underfloor Duct Raceway Aftersets and Marker Caps












Flush Insert Duct		Description	Catalog Number		
Afterset Insert		Provides means to add activation inserts in the field where needed prior to concrete pour. 14 gauge steel.	1-Gang	1 1/2" Insert Height	<b>DAIFA-1G-15</b>
				2" Insert Height	<b>DAIFA-1G-2</b>
				3" Insert Height	<b>DAIFA-1G-3</b>
			2-Gang	1 1/2" Insert Height	<b>DAIFA-2G-15</b>
				2" Insert Height	<b>DAIFA-2G-2</b>
				3" Insert Height	<b>DAIFA-2G-3</b>
			3-Gang	1 1/2" Insert Height	<b>DAIFA-3G-15</b>
				2" Insert Height	<b>DAIFA-3G-2</b>
				3" Insert Height	<b>DAIFA-3G-3</b>
Marker Cap		Marker caps are used in place of standard insert caps in (a) each insert adjacent to junction box, (b) inserts on each side of a permanent wall, and (c) the last insert in each run of duct.	Insert Marker Cap:		
			Zinc Screw	<b>FA-DMC-Z</b>	
			Brass Screw	<b>FA-DMC-B</b>	
Compartment Cover		Used for abandoning preset opening (one per gang). 18 gauge steel,	Blank Cover	<b>FA-MC</b>	

Round Insert Duct		Description	Catalog Number	
Afterset Insert		Provides means to add activation inserts in the field where needed prior to or after concrete pour. Zinc die cast.	1" Insert Height	<b>DAI-1</b>
			2" Insert Height	<b>DAI-2</b>
			3" Insert Height	<b>DAI-3</b>
			4" Insert Height	<b>DAI-4</b>
Marker Cap		Marker caps are used in place of standard insert caps in (a) each insert adjacent to junction box, (b) inserts on each side of a permanent wall, and (c) the last insert in each run of duct.	Insert Marker Cap:	
			Zinc Screw	<b>DMC-Z</b>
			Brass Screw	<b>DMC-B</b>
Reducing Bushing		Reduces threaded 2" IPS insert opening to either 3/4" NPT or 1" NPT threaded opening for attachment of conduit fitting or pedestal fitting chase nipple.	2" to 3/4"	<b>RB-162</b>
			2" to 1"	<b>RB-163</b>

## Underfloor Duct Raceway Activation Kits



- Available in brass and brushed aluminum to meet aesthetic requirements
- Available in one, two and three-gang options
- ScrubShield® Complies with UL514A scrub water requirements
- Flanged design may be used in tile, wood, carpet, terrazzo and bare concrete applications
- Uniform look when used in same areas where Hubbell floor boxes are installed

Flush Insert Underfloor Duct		Finish	1-Gang 6" x 4.85"	2-Gang 6" x 8.13"	3-Gang 6" x 11.34"	
Flanges	Flanges are provided with adapter plates and accessories required for installing to rectangular Underfloor Duct preset inserts and aftersets.	Brass	<b>SB3083W-UFD</b>	<b>SB3084W-UFD</b>	<b>SB3085W-UFD</b>	
		Aluminum	<b>SA3083W-UFD</b>	<b>SA3084W-UFD</b>	<b>SA3085W-UFD</b>	
						
Covers All Covers 4.15" x 2.99"			Duplex Flap	Duplex Screw	Style Line Decorator Opening	Combination 2 1/8" x 3/4"
		Brass	<b>S3825</b>	<b>S3625</b>	<b>S3826</b>	<b>S2425</b>
		Aluminum	<b>SA3825</b>	<b>SA3625</b>	<b>SA3826</b>	<b>SA2425</b>
						
			Combination 2 1/8" x 1"	2 1/8" Single Receptacle	2 3/8" Single Receptacle	Blank
		Brass	<b>S2625</b>	<b>S2825</b>	<b>S3425</b>	<b>S3813</b>
		Aluminum	<b>SA2625</b>	—	—	<b>SA3813</b>
						

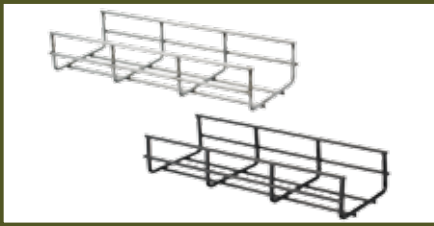
Round Insert Underfloor Duct								
Housing	Die-cast aluminum frame, brushed aluminum housing, chase nipple, without plates	1" Chase Nipple	<b>SC3099A</b>					
		3/4" Chase Nipple	<b>SC3098A</b>					
Plates	Duplex Receptacle	Single Receptacle 1.39" (35.3 mm) opening	Style Line Decorator	Blank	Telephone bushing 1 in. I.D. and (2) 3/8" KO for coax	Furniture Feed aluminum plate with 3/4" trade size KO	Furniture Feed aluminum plate, blank	
		<b>SS309D</b>	<b>SS309S</b>	<b>SS309DS</b>	<b>SS309B</b>	<b>SS309T</b>	<b>SS309SF</b>	<b>SS309BF</b>
								

# SECTION T

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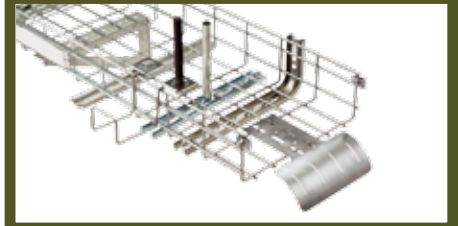
### Round and Flat Style Wire Basket Tray



### Accessories



### Create a Bill of Material



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# Wire Basket Tray System

## Innovative, Flexible, Field-Configurable Wire Basket Solutions

### Support Broad Range of Applications

Hubbell Wiring Systems offers a comprehensive Wire Basket Tray System to handle every application. From pre-galvanized solutions for commercial controlled interior environments to stainless steel versions for industrial applications such as food processing, marine and highly corrosive environments. Hubbell also features labor savings options including No-Splice supports which also reduce material cost and preformed fittings which offer tremendous productivity enhancement to the installer by eliminating field cuts that are required when fittings are configured in the field. Hubbell also offers painted trays in virtually any color needed. The painted tray is masked to reduce on-site paint removal saving time and money. Hubbell Wire Basket Tray Systems are available in overhead and raised floor designs. Complete shipments, job site location palletization and markings, and product customization make Hubbell the choice for every wire basket tray installation.

### Customer Support and Technical Assistance

Hubbell's knowledgeable sales team is just a call away for assistance in selecting the proper type basket tray for any application or providing design assistance including developing a bill of material.

### Pre-Galvanized Finish is Environmentally Friendly

The standard finish for Hubbell Basket Tray is pre-galvanized which is a significantly more environmentally friendly manufacturing process as compared to galvanizing dip. Pre-galvanizing applies a zinc galvanization to the wire PRIOR to fabrication. The galvanized wire(s) then welded and formed into the appropriate basket tray size. Hubbell's pre-galvanized finish performs the same as post-zinc plated production finish while avoiding secondary chemical processing.

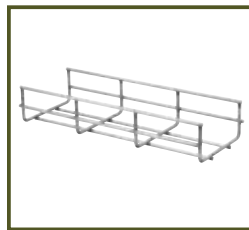
### Sustainable Approach

Hubbell utilizes a sustainable approach to assist in maintaining the environment. Our wire basket tray systems utilize 100% recycled steel content in the manufacturing of our tray, and are packaged in kraft unbleached packaging. Packaging and strapping materials are recyclable. MillCerts are available upon request to assist in documenting recycled content for possible LEED credits.



#### Pre-Galvanized

- Wire is galvanized prior to fabrication
- Applications
  - Commercial
  - Controlled Interiors
- Specification, ASTM A641



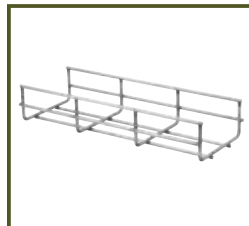
#### Stainless Steel ♦

- Type 304L and 316S
- Applications
  - Industrial
  - Marine
  - Food Processing
  - Outdoor
- Specification, ASTM A580



#### Painted Finishes

- Powder coat; Black is available as standard, other colors available as special order
- Applications
  - Data Center
  - Controlled Interiors
- Specification, N/A



#### Electroplated Zinc ♦

- Tray is galvanized after fabrication
- Applications
  - Commercial
  - Controlled Interiors
- Specification, ASTM B633

Note: ♦ Available as a special order.

Hot dip galvanized tray available as special order.

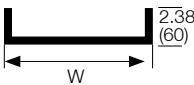



# Wire Basket Tray System

## Round Cross-Wire Basket Tray



### Features

- T-weld construction prevents snags
- 5mm round wire minimum
- High load rating
- Easy to cut and fabricate fittings in the field
- 100% recycled steel
- 2" x 4" mesh opening
- Use factory support hardware or fabricate supports at the job site
- Painted tray includes factory installed masking to ensure proper grounding at splices; no need to remove paint during installation

10 Feet per Length 118.3" (3m) 10 pc. min. order qty. 2" Deep Tray	Tray Width	Load (Lb/ft)	Tray Weight per Length (Lb)	Splice Quantity*		Finish	
				90° Sweep Elbow	Straight Splice	Pre-Galvanized	Black Powder Coat
	4" (102)	45	7	2	2	<b>HBT0204</b>	<b>HBT0204BK</b>
	6" (152) ●	50	9	3	4	<b>HBT0206</b>	<b>HBT0206BK</b>
	8" (203) ●	52	10.5	4	4	<b>HBT0208</b>	<b>HBT0208BK</b>
	12" (305) ●	58	12	6	4	<b>HBT0212</b>	<b>HBT0212BK</b>
	16" (406) ●	70	15	7	4	<b>HBT0216</b>	<b>HBT0216BK</b>
	18" (457) ●	70	23	9	4	<b>HBT0218</b>	<b>HBT0218BK</b>
	20" (508) ●	73	25	9	5	<b>HBT0220</b>	<b>HBT0220BK</b>
	22" (559)	73	27	12	5	<b>HBT0222</b>	<b>HBT0222BK</b>
	24" (610) ●	75	31	12	5	<b>HBT0224</b>	<b>HBT0224BK</b>
	26" (660)	73	33	13	6	<b>HBT0226</b>	<b>HBT0226BK</b>
	28" (711)	73	35	14	6	<b>HBT0228</b>	<b>HBT0228BK</b>
	30" (762)	70	38	15	6	<b>HBT0230</b>	<b>HBT0230BK</b>
32" (813)	70	39	16	6	<b>HBT0232</b>	<b>HBT0232BK</b>	
	4" (102)	49	12	2	4	<b>HBT0404</b>	<b>HBT0404BK</b>
	6" (152) ●	49	13	3	5	<b>HBT0406</b>	<b>HBT0406BK</b>
	8" (203) ●	78	15	4	6	<b>HBT0408</b>	<b>HBT0408BK</b>
	12" (305) ●	78	23	6	6	<b>HBT0412</b>	<b>HBT0412BK</b>
	16" (406) ●	108	27	7	7	<b>HBT0416</b>	<b>HBT0416BK</b>
	18" (457) ●	116	29	9	7	<b>HBT0418</b>	<b>HBT0418BK</b>
	20" (508) ●	116	31	9	7	<b>HBT0420</b>	<b>HBT0420BK</b>
	22" (559)	116	33	12	8	<b>HBT0422</b>	<b>HBT0422BK</b>
	24" (610) ●	116	35	12	8	<b>HBT0424</b>	<b>HBT0424BK</b>
	8" (203) ●	116	23	4	6	<b>HBT0608</b>	<b>HBT0608BK</b>
	12" (305) ●	123	27	6	6	<b>HBT0612</b>	<b>HBT0612BK</b>
	16" (406) ●	123	31	7	7	<b>HBT0616</b>	<b>HBT0616BK</b>
	18" (457) ●	127	33	9	7	<b>HBT0618</b>	<b>HBT0618BK</b>
	20" (508) ●	127	35	9	7	<b>HBT0620</b>	<b>HBT0620BK</b>
	22" (559) ●	127	37	12	8	<b>HBT0622</b>	<b>HBT0622BK</b>
	24" (610) ●	150	39	12	8	<b>HBT0624</b>	<b>HBT0624BK</b>
	8" (203) ●	116	27	4	8	<b>HBT0808</b>	<b>HBT0808BK</b>
	12" (305) ●	116	31	6	8	<b>HBT0812</b>	<b>HBT0812BK</b>
	16" (406) ●	116	35	7	9	<b>HBT0816</b>	<b>HBT0816BK</b>
	18" (457) ●	116	37	9	9	<b>HBT0818</b>	<b>HBT0818BK</b>
	20" (508) ●	116	39	9	9	<b>HBT0820</b>	<b>HBT0820BK</b>

### Field Configurable Fittings

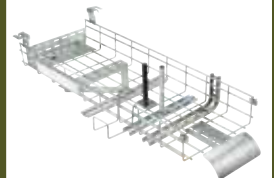


**90° Sweep Elbow**  
Use appropriate quantity of splice kits



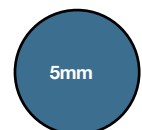
**Tee Fitting**  
Use one HBTC5 corner splice per each

### Supports and Hardware



**Ordering Information**  
See page T-12

### Wire Diameter



.1969" Dia.  
"Round" Wire Design

Note: ●UL Classified as equipment ground conductor (painted tray cUL Classified only).  
All dimensions are +/- 0.25". Custom paint colors available in addition to Black Powder Coat (Contact Hubbell).  
\*See page T-13 for details and page T-14 for wire fill and maximum load chart.  
HBT0202 (2x2 tray) available as special order. MOQ 40 pcs. Top wire utilizes side weld.

Dimensions in Inches (mm)



# Wire Basket Tray System


## Electroplated Zinc Round Cross-Wire Basket Tray




### Features

- T-weld construction prevents snags
- 5mm round wire minimum
- High load rating
- Easy to cut and fabricate fittings in the field
- 2" x 4" mesh opening
- Use factory support hardware or fabricate supports at the job site
- Electroplated zinc galvanized (post plated) made from carbon steel and plated to ASTM B 633, Type III, SC-1

### Field Configurable Fittings

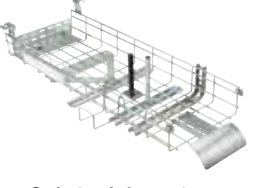


**90° Sweep Elbow**  
Use appropriate quantity of splice kits



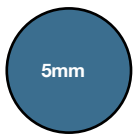
**Tee Fitting**  
Use one HBTCS corner splice per each

### Supports and Hardware

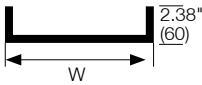


**Ordering Information**  
See page T-12

### Wire Diameter



.1969" Dia.  
"Round" Wire Design

10 Feet per Length 118.3" (3m) 10 pc. min. order qty. 2" Deep Tray	Tray Width	Load (Lb/ft)	Tray Weight per Length (Lb)	Splice Quantity*		Finish
				90° Sweep Elbow	Straight Splice	
	4" (102)	45	7	2	2	<b>HBT0204ZP</b>
	6" (152) ●	50	9	3	4	<b>HBT0206ZP</b>
	8" (203) ●	52	10.5	4	4	<b>HBT0208ZP</b>
	12" (305) ●	58	12	6	4	<b>HBT0212ZP</b>
	16" (406) ●	70	15	7	4	<b>HBT0216ZP</b>
	18" (457) ●	70	23	9	4	<b>HBT0218ZP</b>
	20" (508) ●	73	25	9	5	<b>HBT0220ZP</b>
	22" (559)	73	27	12	5	<b>HBT0222ZP</b>
	24" (610) ●	75	31	12	5	<b>HBT0224ZP</b>
	26" (660)	73	33	13	6	<b>HBT0226ZP</b>
	28" (711)	73	35	14	6	<b>HBT0228ZP</b>
	30" (762)	70	38	15	6	<b>HBT0230ZP</b>
32" (813)	70	39	16	6	<b>HBT0232ZP</b>	
4" Deep Tray	4" (102)	49	12	2	4	<b>HBT0404ZP</b>
	6" (152) ●	49	13	3	5	<b>HBT0406ZP</b>
	8" (203) ●	78	15	4	6	<b>HBT0408ZP</b>
	12" (305) ●	78	23	6	6	<b>HBT0412ZP</b>
	16" (406) ●	108	27	7	7	<b>HBT0416ZP</b>
	18" (457) ●	116	29	9	7	<b>HBT0418ZP</b>
	20" (508) ●	116	31	9	7	<b>HBT0420ZP</b>
	22" (559)	116	33	12	8	<b>HBT0422ZP</b>
6" Deep Tray	8" (203) ●	116	23	4	6	<b>HBT0608ZP</b>
	12" (305) ●	123	27	6	6	<b>HBT0612ZP</b>
	16" (406) ●	123	31	7	7	<b>HBT0616ZP</b>
	18" (457) ●	127	33	9	7	<b>HBT0618ZP</b>
	20" (508) ●	127	35	9	7	<b>HBT0620ZP</b>
	22" (559) ●	127	37	12	8	<b>HBT0622ZP</b>
	24" (610) ●	150	39	12	8	<b>HBT0624ZP</b>
	8" Deep Tray	8" (203) ●	116	27	4	8
12" (305) ●		116	31	6	8	<b>HBT0812ZP</b>
16" (406) ●		116	35	7	9	<b>HBT0816ZP</b>
18" (457) ●		116	37	9	9	<b>HBT0818ZP</b>
20" (508) ●		116	39	9	9	<b>HBT0820ZP</b>

Note: ●UL Classified/cUL Classified as equipment ground conductor.

All dimensions are +/- 0.25".

\*See page T-13 for details and page T-14 for wire fill and maximum load chart.

Dimensions in Inches (mm)

# Wire Basket Tray System

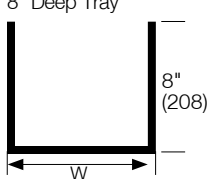
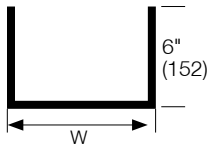
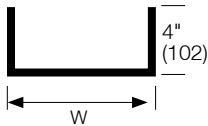
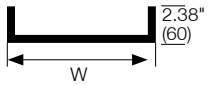
## Flat Style Cross-Wire Basket Tray



### Features

- Flat shaped cross-wires provide significantly more surface area to support weight of cables - Ideal for Cat 6 and 6A applications
- Flat ribs provide 400% more surface area and reduce stress on cables by 60%
- 100% recycled steel
- 2" x 4" mesh opening
- Reduction in stress helps maintain Cat 6 and Cat 6A performance
- Cuts and configures the same as round wire tray
- Uses the same splicing and mounting hardware as round wire tray

10 Feet per Length 118.3" (3m) 10 pc. min. order qty. 2" Deep Tray	Tray Width	Load (Lb/ft)	Tray Weight per Length (Lb)	Splice Quantity*		Finish	
				90° Sweep Elbow	Straight Splice	Pre-Galvanized	Black Powder Coat
	4" (102)	45	7	2	2	HBT0204S	HBT0204SBK
	6" (152) ●	50	9	3	4	HBT0206S	HBT0206SBK
	8" (203) ●	52	10.5	4	4	HBT0208S	HBT0208SBK
	12" (305) ●	58	12	6	4	HBT0212S	HBT0212SBK
	16" (406) ●	70	15	7	4	HBT0216S	HBT0216SBK
	18" (457) ●	70	23	9	4	HBT0218S	HBT0218SBK
	20" (508) ●	73	25	9	5	HBT0220S	HBT0220SBK
	22" (559)	73	27	12	5	HBT0222S	HBT0222SBK
	24" (610) ●	75	31	12	5	HBT0224S	HBT0224SBK
	26" (660)	73	33	13	6	HBT0226S	HBT0226SBK
	28" (711)	73	35	14	6	HBT0228S	HBT0228SBK
	30" (762)	70	38	15	6	HBT0230S	HBT0230SBK
	32" (813)	70	39	16	6	HBT0232S	HBT0232SBK
4" Deep Tray	4" (102)	49	12	2	4	HBT0404S	HBT0404SBK
	6" (152) ●	49	13	3	5	HBT0406S	HBT0406SBK
	8" (203) ●	78	15	4	6	HBT0408S	HBT0408SBK
	12" (305) ●	78	23	6	6	HBT0412S	HBT0412SBK
	16" (406) ●	108	27	7	7	HBT0416S	HBT0416SBK
	18" (457) ●	116	29	9	7	HBT0418S	HBT0418SBK
	20" (508) ●	116	31	9	7	HBT0420S	HBT0420SBK
	22" (559)	116	33	12	8	HBT0422S	HBT0422SBK
6" Deep Tray	8" (203) ●	116	23	4	6	HBT0608S	HBT0608SBK
	12" (305) ●	123	27	6	6	HBT0612S	HBT0612SBK
	16" (406) ●	123	31	7	7	HBT0616S	HBT0616SBK
	18" (457) ●	127	33	9	7	HBT0618S	HBT0618SBK
	20" (508) ●	127	35	9	7	HBT0620S	HBT0620SBK
	22" (559) ●	127	37	12	8	HBT0622S	HBT0622SBK
8" Deep Tray	8" (203) ●	116	27	4	8	HBT0808S	HBT0808SBK
	12" (305) ●	116	31	6	8	HBT0812S	HBT0812SBK
	16" (406) ●	116	35	7	9	HBT0816S	HBT0816SBK
	18" (457) ●	116	37	9	9	HBT0818S	HBT0818SBK
	20" (508) ●	116	39	9	9	HBT0820S	HBT0820SBK



Note: ●UL Classified as equipment ground conductor (painted tray cUL Classified only).  
All dimensions are +/- 0.25". Custom paint colors available in addition to Black Powder Coat (Contact Hubbell).  
\*See page T-13 for details and page T-14 for wire fill and maximum load chart.

### Field Configurable Fittings

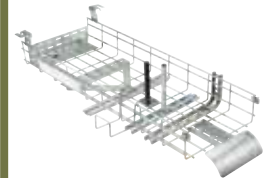


**90° Sweep Elbow**  
Use appropriate quantity of splice kits



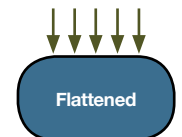
**Tee Fitting**  
Use one HBTCS corner splice per each

### Supports and Hardware



**Ordering Information**  
See page T-12

### Cable Support Area



.03125 sq. inch  
"Flat" Wire Design  
(based on .125" dia. cable)

Dimensions in Inches (mm)

# Wire Basket Tray System

## Stainless Steel Round Cross-Wire Basket Tray



### Features

- Type 304L and 316S stainless steel
- Meets ASTM A580 specifications
- 4.5mm round wire minimum
- Stainless splice kits and ceiling supports are available

### Applications

- Food processing
- Wash down areas
- Corrosive environments
- Outdoor installations
- Marine

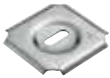
### Stainless Steel Accessories Available



**HBTSSKSS**  
Splice Kits



**HBTCSSS**  
Corner Splice



**HBTWSSS**  
Washer Support



**HBTNBSS**  
1/4" x 20 Nuts and Bolts

### Ordering Information

See page T-12

### Wire Diameter



.1772" Dia.  
"Round" Wire Design

10 Feet per Length 118.3" (3m) 10 pc. min. order qty. 2" Deep Tray	Tray Width	Load (Lb/ft)	Tray Weight per Length (Lb)	Splice Quantity*		Round	
				90° Sweep Elbow	Straight Splice	Type 304L	Type 316S
	4" (102)	45	7	2	2	<b>HBT0204S04</b>	<b>HBT0204S16</b>
	6" (152)	50	9	3	4	<b>HBT0206S04</b>	<b>HBT0206S16</b>
	8" (203)	52	10.5	4	4	<b>HBT0208S04</b>	<b>HBT0208S16</b>
	12" (305)	58	12	6	4	<b>HBT0212S04</b>	<b>HBT0212S16</b>
	16" (406)	70	15	7	4	<b>HBT0216S04</b>	<b>HBT0216S16</b>
	18" (457)	70	23	9	4	<b>HBT0218S04</b>	<b>HBT0218S16</b>
	20" (508)	73	25	9	5	<b>HBT0220S04</b>	<b>HBT0220S16</b>
	22" (559)	73	27	12	5	<b>HBT0222S04</b>	<b>HBT0222S16</b>
	24" (610)	75	31	12	5	<b>HBT0224S04</b>	<b>HBT0224S16</b>
	26" (660)	73	33	13	6	<b>HBT0226S04</b>	<b>HBT0226S16</b>
	28" (711)	73	35	14	6	<b>HBT0228S04</b>	<b>HBT0228S16</b>
	30" (762)	70	38	15	6	<b>HBT0230S04</b>	<b>HBT0230S16</b>
	32" (813)	70	39	16	6	<b>HBT0232S04</b>	<b>HBT0232S16</b>
	4" (102)	49	12	2	4	<b>HBT0404S04</b>	<b>HBT0404S16</b>
	6" (152)	49	13	3	5	<b>HBT0406S04</b>	<b>HBT0406S16</b>
	8" (203)	78	15	4	6	<b>HBT0408S04</b>	<b>HBT0408S16</b>
	12" (305)	78	23	6	6	<b>HBT0412S04</b>	<b>HBT0412S16</b>
	16" (406)	108	27	7	7	<b>HBT0416S04</b>	<b>HBT0416S16</b>
	18" (457)	116	29	9	7	<b>HBT0418S04</b>	<b>HBT0418S16</b>
	20" (508)	116	31	9	7	<b>HBT0420S04</b>	<b>HBT0420S16</b>
	22" (559)	116	33	12	8	<b>HBT0422S04</b>	<b>HBT0422S16</b>
	24" (610)	116	35	12	8	<b>HBT0424S04</b>	<b>HBT0424S16</b>
	8" (203)	116	23	4	6	<b>HBT0608S04</b>	<b>HBT0608S16</b>
	12" (305)	123	27	6	6	<b>HBT0612S04</b>	<b>HBT0612S16</b>
	16" (406)	123	31	7	7	<b>HBT0616S04</b>	<b>HBT0616S16</b>
	18" (457)	127	33	9	7	<b>HBT0618S04</b>	<b>HBT0618S16</b>
	20" (508)	127	35	9	7	<b>HBT0620S04</b>	<b>HBT0620S16</b>
	22" (559)	127	37	12	8	<b>HBT0622S04</b>	<b>HBT0622S16</b>
	24" (610)	150	39	12	8	<b>HBT0624S04</b>	<b>HBT0624S16</b>
	8" (203)	116	27	4	8	<b>HBT0808S04</b>	<b>HBT0808S16</b>
	12" (305)	116	31	6	8	<b>HBT0812S04</b>	<b>HBT0812S16</b>
	16" (406)	116	35	7	9	<b>HBT0816S04</b>	<b>HBT0816S16</b>
	18" (457)	116	37	9	9	<b>HBT0818S04</b>	<b>HBT0818S16</b>
	20" (508)	116	39	9	9	<b>HBT0820S04</b>	<b>HBT0820S16</b>

Note: All dimensions are +/- 0.25".

\*See page T-13 for details and page T-14 for wire fill and maximum load chart.

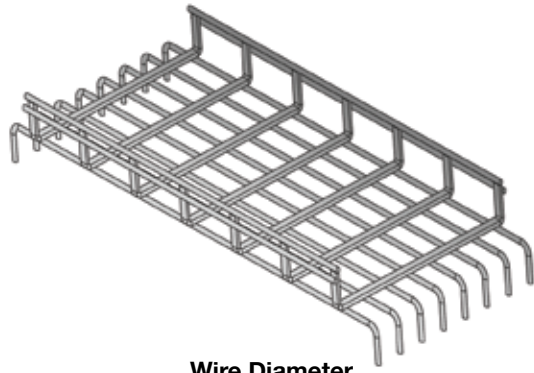
Dimensions in Inches (mm)

# Wire Basket Tray System

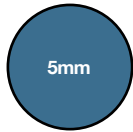
## Under Floor Round Cross-Wire Basket Tray

### Features

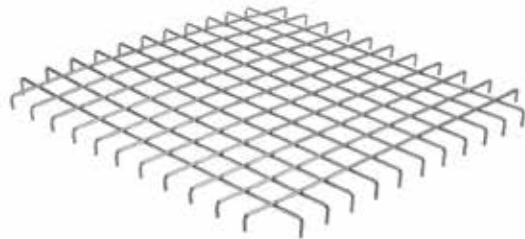
- T-weld construction prevents snags
- 5mm round wire on smaller sizes
- 100% recycled steel
- Use factory support hardware or fabricate supports on the job site
- 2" x 4" mesh opening



Wire Diameter



.1969" Dia.  
"Round" Wire Design



HBTU002424

Tray Height	Tray Width	Tray Length		
		24" (610)	48" (1,220)	72" (1,829)
2" Deep Tray	6" (152)	HBTU020624	HBTU020648	HBTU020672
	12" (305)	HBTU021224	HBTU021248	HBTU021272
	24" (610)	HBTU022424	HBTU022448	HBTU022472
4" Deep Tray	6" (152)	HBTU040624	HBTU040648	HBTU040672
	12" (305)	HBTU041224	HBTU041248	HBTU041272
	24" (610)	HBTU042424	HBTU042448	HBTU042472
6" Deep Tray	6" (152)	HBTU060624	HBTU060648	HBTU060672
	12" (305)	HBTU061224	HBTU061248	HBTU061272
	24" (610)	HBTU062424	HBTU062448	HBTU062472
8" Deep Tray	6" (152)	—	—	—
	12" (305)	HBTU081224	HBTU081248	HBTU081272
	20" (610)	HBTU082024	HBTU082048	HBTU082072
Flat	24" (610)	HBTU002424	—	—

Note: Tray UL Classified as equipment ground conductor.



### Splice Hardware

Description	Finish	Catalog Number
<b>Kit, Pedestal</b> (2) HBTUPC and (1) Cross bar	Pre-Galvanized	<b>HBTUPK</b>
<b>C-Bracket</b> 6" Tier 12" Tier	Pre-Galvanized Pre-Galvanized	<b>HBTUCB6</b> <b>HBTUCB12</b>
<b>U-Clamp, Pedestal</b> (1) Clamp	Pre-Galvanized	<b>HBTUPC</b>
<b>Tray Grounding Fasteners</b> Washer supports HBTWS and 1/4" - 20 self threading screws; 50 per box. Required when installing under floor wire basket tray.	Zinc Plated	<b>HBTUGS</b>
<b>Intersection Supports</b> For use with HBTUSUPP series support	Pre-Galvanized	<b>HBTUFIT</b>
<b>Vertical Up</b>	Pre-Galvanized	<b>HBTUVU</b>

### Saw Horse Supports

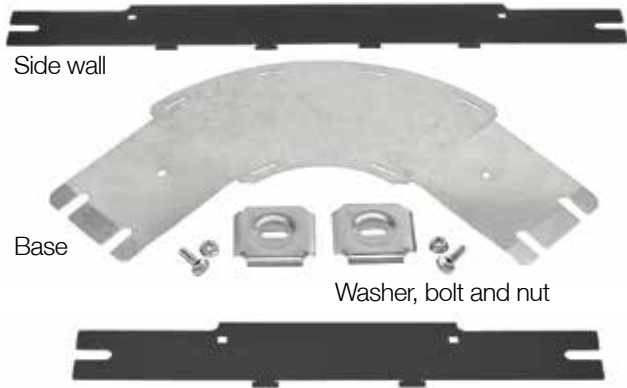
Support Height	Support Width	Finish	Catalog Number
4" (102)	22" (559)	Pre-Galvanized	<b>HBTUSUPP4</b>
6" (152)	22" (559)	Pre-Galvanized	<b>HBTUSUPP6</b>
8" (203)	22" (559)	Pre-Galvanized	<b>HBTUSUPP8</b>
10" (254)	22" (559)	Pre-Galvanized	<b>HBTUSUPP10</b>
12" (305)	22" (559)	Pre-Galvanized	<b>HBTUSUPP12</b>
14" (356)	22" (559)	Pre-Galvanized	<b>HBTUSUPP14</b>
16" (406)	22" (559)	Pre-Galvanized	<b>HBTUSUPP16</b>
18" (457)	22" (559)	Pre-Galvanized	<b>HBTUSUPP18</b>
20" (508)	22" (559)	Pre-Galvanized	<b>HBTUSUPP20</b>
22" (559)	22" (559)	Pre-Galvanized	<b>HBTUSUPP22</b>
24" (610)	22" (559)	Pre-Galvanized	<b>HBTUSUPP24</b>
26" (660)	22" (559)	Pre-Galvanized	<b>HBTUSUPP26</b>
28" (711)	22" (559)	Pre-Galvanized	<b>HBTUSUPP28</b>
30" (762)	22" (559)	Pre-Galvanized	<b>HBTUSUPP30</b>

Note: See page 10 for L-brackets and C-brackets.  
See page 14 for wire fill and maximum load chart.

Dimensions in Inches (mm)

# Wire Basket Tray System

## Accessories for Wire Basket Tray, Preformed Fittings



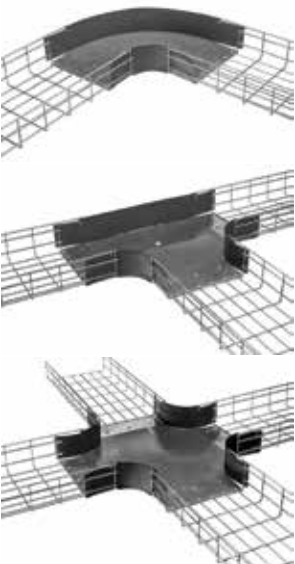
### 1. Splicing hardware included



### 2. Attach first tray with washer support and 1/4"-20 nut and bolt



### 3. Washer support secured to tray



### Installation Efficiency

Hubbell preformed fittings are time and cost effective solutions to installing 90 Degree Radius, Tees and Intersections, no cutting and no configuring. Hubbell offers Pre-galvanized or Black powder painted finishes. The fittings simply attach at the Intersections Tees or junctions when you want a radius bend. The fittings are manufactured precisely to the basket tray being utilized providing a clean engineered solution.

Installation of Hubbell preformed fittings can reduce installation configurations from hours to a few minutes. Labor and time savings can exceed 90% versus traditional cutting and splicing. Preformed fittings ensure a consistent installation every time and also avoids the sharp wire edges caused during the cutting process. Standard Hubbell preformed fittings consist of a pregalvanized base with black polymer sides\* and splicing hardware.

\*Steel wall preform fittings are available.



### 4. Attach second tray



### 5. Install side walls

### 90 Degree Radius

Tray Width	Traditional Configuration	Hubbell Preformed Fittings	Time Savings
2 x 8	7 Minutes	1 Minute	85%
4 x 12	20 Minutes	2 Minutes	90%

### Tee

Tray Width	Traditional Configuration	Hubbell Preformed Fittings	Time Savings
4 x 12	8 Minutes, 45 seconds	2 Minutes, 30 seconds	70%
4 x 18	10 Minutes	2 Minutes, 30 seconds	74%

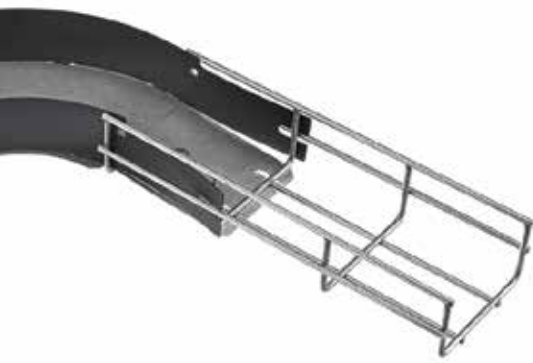
### Intersection

Tray Width	Traditional Configuration	Hubbell Preformed Fittings	Time Savings
6 x 24	29 Minutes	4 Minutes, 45 seconds	83%



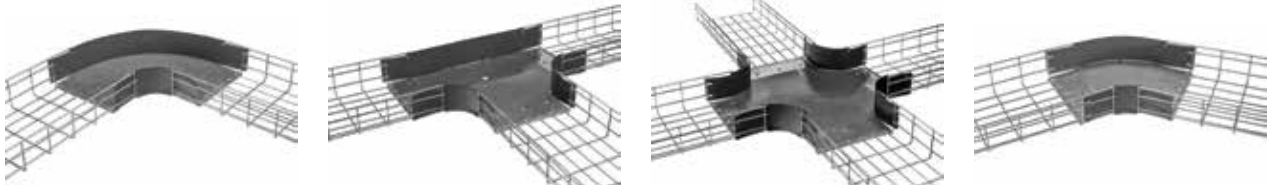
# Wire Basket Tray System

## Accessories for Wire Basket Tray, Preformed Fittings



### Features

- Labor and time savings
- Consistent installations
- For round and flat tray
- Steel pre-galvanized bases
- Interlocking polymer side walls
- Splicing hardware included
- Available with steel side walls



Tray Size	Tray Width	90 Degree	Tee	Intersection	45 Degree	30 Degree
2" (51) Deep	4"(102)	<b>HBTR0204</b>	<b>HBTT0204</b>	<b>HBTI0204</b>	<b>HBT450204</b>	<b>HBT300204</b>
	6"(152)	<b>HBTR0206</b>	<b>HBTT0206</b>	<b>HBTI0206</b>	<b>HBT450206</b>	<b>HBT300206</b>
	8"(203)	<b>HBTR0208</b>	<b>HBTT0208</b>	<b>HBTI0208</b>	<b>HBT450208</b>	<b>HBT300208</b>
	12"(305)	<b>HBTR0212</b>	<b>HBTT0212</b>	<b>HBTI0212</b>	<b>HBT450212</b>	<b>HBT300212</b>
	16"(406)	<b>HBTR0216</b>	<b>HBTT0216</b>	<b>HBTI0216</b>	<b>HBT450216</b>	<b>HBT300216</b>
	18"(457)	<b>HBTR0218</b>	<b>HBTT0218</b>	<b>HBTI0218</b>	<b>HBT450218</b>	<b>HBT300218</b>
	20"(508)	<b>HBTR0220</b>	<b>HBTT0220</b>	<b>HBTI0220</b>	<b>HBT450220</b>	<b>HBT300220</b>
	24"(610)	<b>HBTR0224</b>	<b>HBTT0224</b>	<b>HBTI0224</b>	<b>HBT450224</b>	<b>HBT300224</b>
4" (102) Deep	4"(102)	<b>HBTR0404</b>	<b>HBTT0404</b>	<b>HBTI0404</b>	<b>HBT450404</b>	<b>HBT300404</b>
	6"(152)	<b>HBTR0406</b>	<b>HBTT0406</b>	<b>HBTI0406</b>	<b>HBT450406</b>	<b>HBT300406</b>
	8"(203)	<b>HBTR0408</b>	<b>HBTT0408</b>	<b>HBTI0408</b>	<b>HBT450408</b>	<b>HBT300408</b>
	12"(305)	<b>HBTR0412</b>	<b>HBTT0412</b>	<b>HBTI0412</b>	<b>HBT450412</b>	<b>HBT300412</b>
	16"(406)	<b>HBTR0416</b>	<b>HBTT0416</b>	<b>HBTI0416</b>	<b>HBT450416</b>	<b>HBT300416</b>
	18"(457)	<b>HBTR0418</b>	<b>HBTT0418</b>	<b>HBTI0418</b>	<b>HBT450418</b>	<b>HBT300418</b>
	20"(508)	<b>HBTR0420</b>	<b>HBTT0420</b>	<b>HBTI0420</b>	<b>HBT450420</b>	<b>HBT300420</b>
	24"(610)	<b>HBTR0424</b>	<b>HBTT0424</b>	<b>HBTI0424</b>	<b>HBT450424</b>	<b>HBT300424</b>
6" (152) Deep	8"(203)	<b>HBTR0608</b>	<b>HBTT0608</b>	<b>HBTI0608</b>	<b>HBT450608</b>	<b>HBT300608</b>
	12"(305)	<b>HBTR0612</b>	<b>HBTT0612</b>	<b>HBTI0612</b>	<b>HBT450612</b>	<b>HBT300612</b>
	16"(406)	<b>HBTR0616</b>	<b>HBTT0616</b>	<b>HBTI0616</b>	<b>HBT450616</b>	<b>HBT300616</b>
	18"(457)	<b>HBTR0618</b>	<b>HBTT0618</b>	<b>HBTI0618</b>	<b>HBT450618</b>	<b>HBT300618</b>
	20"(508)	<b>HBTR0620</b>	<b>HBTT0620</b>	<b>HBTI0620</b>	<b>HBT450620</b>	<b>HBT300620</b>
	24"(610)	<b>HBTR0624</b>	<b>HBTT0624</b>	<b>HBTI0624</b>	<b>HBT450624</b>	<b>HBT300624</b>

Note: Add **BK** suffix for black base.  
Add **SW** suffix for steel side walls.

Dimensions in Inches (mm)

# Wire Basket Tray System

## Accessories for Wire Basket Tray - Supports and Brackets

No Splice supports reduces the number of splice kits required for tray installations.



### No Splice Support\*

Tray Width	Qty. per Box	Center Support		Qty. per Box	Ceiling Support	
		Pre-Galvanized	Black Powder Coat		Pre-Galvanized	Black Powder Coat
6" (152)	1	<b>HBTNSCTRS6</b>	<b>HBTNSCTRS6BK</b>	-	-	-
8" (203)	1	<b>HBTNSCTRS8</b>	<b>HBTNSCTRS8BK</b>	-	-	-
12" (305)	1	<b>HBTNSCTRS12</b>	<b>HBTNSCTRS12BK</b>	1	<b>HBTNSCLGS12</b>	<b>HBTNSCLGS12BK</b>
16" (406)	1	<b>HBTNSCTRS16</b>	<b>HBTNSCTRS16BK</b>	1	<b>HBTNSCLGS16</b>	<b>HBTNSCLGS16BK</b>
18" (457)	1	<b>HBTNSCTRS18</b>	<b>HBTNSCTRS18BK</b>	1	<b>HBTNSCLGS18</b>	<b>HBTNSCLGS18BK</b>
20" (508)	1	<b>HBTNSCTRS20</b>	<b>HBTNSCTRS20BK</b>	1	<b>HBTNSCLGS20</b>	<b>HBTNSCLGS20BK</b>
24" (610)	1	<b>HBTNSCTRS24</b>	<b>HBTNSCTRS24BK</b>	1	<b>HBTNSCLGS24</b>	<b>HBTNSCLGS24BK</b>

Note: \*Install every 5 feet. Splice hardware included.



### Supports\*\*

Tray Width	Qty. per Box	Center Support		Ceiling Support		Trapeze Support		
		Pre-Galvanized	Black Powder Coat	Pre-Galvanized	Black Powder Coat	Qty. per Box	Zinc Plated	Black Powder Coat
4" (102)	1	<b>HBTCTRS4</b>	<b>HBTCTRS4BK</b>	-	-	50	<b>HBTTS</b>	<b>HBTTSBK</b>
6" (152)	1	<b>HBTCTRS6</b>	<b>HBTCTRS6BK</b>	-	-		Attaches to the side of the tray; for tray sizes 16" wide and smaller; use in pairs every 6 feet for 4" and 6" trays; can be staggered every 5 feet.	
8" (203)	1	<b>HBTCTRS8</b>	<b>HBTCTRS8BK</b>	-	-			
12" (305)	1	<b>HBTCTRS12</b>	<b>HBTCTRS12BK</b>	<b>HBTCLGS12</b>	<b>HBTCLGS12BK</b>			
16" (406)	1	<b>HBTCTRS16</b>	<b>HBTCTRS16BK</b>	<b>HBTCLGS16</b>	<b>HBTCLGS16BK</b>			
18" (457)	1	<b>HBTCTRS18</b>	<b>HBTCTRS18BK</b>	<b>HBTCLGS18</b>	<b>HBTCLGS18BK</b>			
20" (508)	1	<b>HBTCTRS20</b>	<b>HBTCTRS20BK</b>	<b>HBTCLGS20</b>	<b>HBTCLGS20BK</b>			
24" (610)	1	<b>HBTCTRS24</b>	<b>HBTCTRS24BK</b>	<b>HBTCLGS24</b>	<b>HBTCLGS24BK</b>			



### Brackets\*\*

Tray Width	Qty. per Box	L-Bracket		C-Bracket		Shelf Support	
		Pre-Galvanized	Black Powder Coat	Pre-Galvanized	Black Powder Coat	Pre-Galvanized	Black Powder Coat
4" (102)	1	<b>HBTLB4</b>	<b>HBTLB4BK</b>	<b>HBTCB4</b>	<b>HBTCB4BK</b>	<b>HBTSS4</b>	<b>HBTSS4BK</b>
6" (152)	1	<b>HBTLB6</b>	<b>HBTLB6BK</b>	-	-	<b>HBTSS6</b>	<b>HBTSS6BK</b>
8" (203)	1	<b>HBTLB8</b>	<b>HBTLB8BK</b>	<b>HBTCB8</b>	<b>HBTCB8BK</b>	<b>HBTSS8</b>	<b>HBTSS8BK</b>
12" (305)	1	<b>HBTLB12</b>	<b>HBTLB12BK</b>	<b>HBTCB12</b>	<b>HBTCB12BK</b>	<b>HBTSS12</b>	<b>HBTSS12BK</b>
16" (406)	1	<b>HBTLB16</b>	<b>HBTLB16BK</b>	-	-	<b>HBTSS16</b>	<b>HBTSS16BK</b>
18" (457)	1	<b>HBTLB18</b>	<b>HBTLB18BK</b>	<b>HBTCB18</b>	<b>HBTCB18BK</b>	<b>HBTSS18</b>	<b>HBTSS18BK</b>
20" (508)	1	<b>HBTLB20</b>	<b>HBTLB20BK</b>	-	-	<b>HBTSS20</b>	<b>HBTSS20BK</b>
24" (610)	1	<b>HBTLB24</b>	<b>HBTLB24BK</b>	-	-	<b>HBTSS24</b>	<b>HBTSS24BK</b>

Note: \*\*Install every 6 feet.

Dimensions in Inches (mm)

# Wire Basket Tray System

## Accessories for Wire Basket Tray - Covers and Inserts

### Black Polymer Inserts with Sides\*

Provides a solid bottom and sides for tray - order in 10 foot increments

Tray Width	2" (51) Deep	4" (102) Deep	6" (152) Deep
4" (102)	<b>HBTFRMINSO204BK</b>	<b>HBTFRMINSO404BK</b>	-
6" (152)	<b>HBTFRMINSO206BK</b>	<b>HBTFRMINSO406BK</b>	-
8" (203)	<b>HBTFRMINSO208BK</b>	<b>HBTFRMINSO408BK</b>	<b>HBTFRMINSO608BK</b>
12" (305)	<b>HBTFRMINSO212BK</b>	<b>HBTFRMINSO412BK</b>	<b>HBTFRMINSO612BK</b>
16" (406)	<b>HBTFRMINSO216BK</b>	<b>HBTFRMINSO416BK</b>	<b>HBTFRMINSO616BK</b>
18" (457)	<b>HBTFRMINSO218BK</b>	<b>HBTFRMINSO418BK</b>	<b>HBTFRMINSO618BK</b>
20" (508)	<b>HBTFRMINSO220BK</b>	<b>HBTFRMINSO420BK</b>	<b>HBTFRMINSO620BK</b>
24" (610)	<b>HBTFRMINSO224BK</b>	<b>HBTFRMINSO424BK</b>	<b>HBTFRMINSO624BK</b>

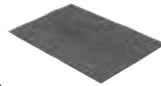
Note: \*For white insert, replace **BK** with **WHT**.



### Polymer Inserts

Provides a solid bottom for tray - order in 10 foot increments

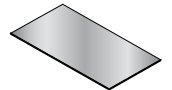
Tray Width	Length	White	Black
4" (102)	118" (3000)	<b>HBTINSNM04WHT</b>	<b>HBTINSNM04</b>
6" (152)	118" (3000)	<b>HBTINSNM06WHT</b>	<b>HBTINSNM06</b>
8" (203)	118" (3000)	<b>HBTINSNM08WHT</b>	<b>HBTINSNM08</b>
12" (305)	118" (3000)	<b>HBTINSNM12WHT</b>	<b>HBTINSNM12</b>
16" (406)	118" (3000)	<b>HBTINSNM16WHT</b>	<b>HBTINSNM16</b>
18" (457)	118" (3000)	<b>HBTINSNM18WHT</b>	<b>HBTINSNM18</b>
20" (508)	118" (3000)	<b>HBTINSNM20WHT</b>	<b>HBTINSNM20</b>
24" (610)	118" (3000)	<b>HBTINSNM24WHT</b>	<b>HBTINSNM24</b>



### Galvanized Steel Inserts

Provides a solid bottom for tray - 5 feet length per piece; 1 piece per box

Tray Width	Length	Pre-Galvanized	Black Powder Coat
4" (102)	59" (1500)	<b>HBTINSM04</b>	<b>HBTINSM04BK</b>
6" (152)	59" (1500)	<b>HBTINSM06</b>	<b>HBTINSM06BK</b>
8" (203)	59" (1500)	<b>HBTINSM08</b>	<b>HBTINSM08BK</b>
12" (305)	59" (1500)	<b>HBTINSM12</b>	<b>HBTINSM12BK</b>
16" (406)	59" (1500)	<b>HBTINSM16</b>	<b>HBTINSM16BK</b>
18" (457)	59" (1500)	<b>HBTINSM18</b>	<b>HBTINSM18BK</b>
20" (508)	59" (1500)	<b>HBTINSM20</b>	<b>HBTINSM20BK</b>
24" (610)	59" (1500)	<b>HBTINSM24</b>	<b>HBTINSM24BK</b>



### Galvanized Steel Covers

Top cable and wire protector - 5 feet length per piece; 1 piece per box

Tray Width	Length	Pre-Galvanized	Black Powder Coat
4" (102)	59" (1500)	<b>HBTCVR4</b>	<b>HBTCVR4BK</b>
6" (152)	59" (1500)	<b>HBTCVR6</b>	<b>HBTCVR6BK</b>
8" (203)	59" (1500)	<b>HBTCVR8</b>	<b>HBTCVR8BK</b>
12" (305)	59" (1500)	<b>HBTCVR12</b>	<b>HBTCVR12BK</b>
16" (406)	59" (1500)	<b>HBTCVR16</b>	<b>HBTCVR16BK</b>
18" (457)	59" (1500)	<b>HBTCVR18</b>	<b>HBTCVR18BK</b>
20" (508)	59" (1500)	<b>HBTCVR20</b>	<b>HBTCVR20BK</b>
24" (610)	59" (1500)	<b>HBTCVR24</b>	<b>HBTCVR24BK</b>



### Galvanized Termination Support

Secures end of tray to wall and can serve as blank end fitting; 1 piece per box

Tray Width	Length	Pre-Galvanized	Black Powder Coat
6" (152)	6.4" (163)	<b>HBTTTS6</b>	<b>HBTTTS6BK</b>
8" (203)	8" (203)	<b>HBTTTS8</b>	<b>HBTTTS8BK</b>
12" (305)	11.2" (284)	<b>HBTTTS12</b>	<b>HBTTTS12BK</b>
16" (406)	16" (406)	<b>HBTTTS16</b>	<b>HBTTTS16BK</b>
18" (457)	17.6" (447)	<b>HBTTTS18</b>	<b>HBTTTS18BK</b>
20" (508)	19.2" (488)	<b>HBTTTS20</b>	<b>HBTTTS20BK</b>
24" (610)	24" (610)	<b>HBTTTS24</b>	<b>HBTTTS24BK</b>



### Galvanized Steel Dividers

Mounting hardware to secure to tray (not included); 2 mounting holes per piece; 5 feet length per piece; 1 piece per box

For use with Tray	Length	Pre-Galvanized	Black Powder Coat
2" (51) Deep	60" (1524)	<b>HBTDIV2</b>	<b>HBTDIV2BK</b>
4" (102) Deep	60" (1524)	<b>HBTDIV4</b>	<b>HBTDIV4BK</b>
6" (152) Deep	60" (1524)	<b>HBTDIV6</b>	<b>HBTDIV6BK</b>
8" (203) Deep	60" (1524)	<b>HBTDIV8</b>	<b>HBTDIV8BK</b>



Dimensions in Inches (mm)

# Wire Basket Tray System

## Accessories for Wire Basket Tray, Supports and Fittings

Description	Tray Width	Finish	Catalog Number
<b>Radius Down</b> Increases cable protection and cable bend control; 1 per box	4" (102) 6" (152) 12" (305)	Black Black Black	<b>HBTRD4BK</b> <b>HBTRD6BK</b> <b>HBTRD12BK</b>
<b>Exit Radius Down*</b> Top tray attachment, increases cable protection and cable bend control; 1 per box	4X4 Minimum Tray Size	Black	<b>HBTEXTRDBK</b>
<b>Vertical Down</b> Protects cables when dropping from the end or side of tray; 1 per box	7/4" (102)	Zinc Plated Black	<b>HBTVD</b> <b>HBTVDBK</b>
<b>Label Clip</b> Attachment for all sizes of tray; 1 per box		White	<b>HBTLCL</b>
<b>Cable Guide*</b> Maintains cable bend radius and acts as a divider for straight sections and fittings; 1 per box		Black	<b>HBTCG</b>
<b>Electrical Box Bracket</b> Attaches electrical box to side of tray; 1 per box		Pre-Galvanized Black	<b>HBTEB</b> <b>HBTEBBL</b>
<b>Sidecar</b> Attaches to outside of tray, provides additional cable support, 2" deep; 1 per box		Pre-Galvanized Black	<b>HBTSC</b> <b>HBTSCBK</b>
<b>Splice Kit</b> 3 piece staked bolt/washer and nut combination; splices straight sections and field formed fittings; 50 pieces per box		Zinc Plated Black Stainless Steel	<b>HBTSK</b> <b>HBTSKBK</b> <b>HBTSKSS</b>
<b>Bar Splice</b> Slotted bar 11 1/4" long; Splices straight sections and fittings; bend to form tray reducers; adds rigidity to tray splices; 50 pieces per box		Zinc Plated Black Stainless Steel	<b>HBTBS</b> <b>HBTBSBK</b> <b>HBTBSSS</b>
<b>Corner Splice</b> (2) 90° splice bars and (8) sets of the splice kit		Zinc Plated Black Stainless Steel	<b>HBTCS</b> <b>HBTCSBK</b> <b>HBTCSSS</b>
<b>Splice Fittings Required:</b> Use one per each Tee Fitting; Use two per each Cross Fitting			
<b>Washer Supports</b> Splices straight sections and fittings and can also be used as a hold down method for tray to strut (nut and bolt provided separately); 50 pieces per box		Zinc Plated Black Stainless Steel	<b>HBTWS</b> <b>HBTWSBK</b> <b>HBTWSSS</b>
<b>Self Tapping Screws with Supports</b> 1/4" - 20 self tapping screw and HBTWS; 50 pieces per box		Zinc Plated	<b>HBTUGS</b>

Note: \*Mounting hardware included.

Description	Finish	Catalog Number
<b>Fitting Attachment</b> Fills the gap in tray when creating fittings in 2" tray or 4"/6" tray	Pre-Galvanized Black	<b>HBTF A2</b> <b>HBTF A2BK</b>
	Pre-Galvanized Black	<b>HBTF A46</b> <b>HBTF A46BK</b>
<b>Rack Attachment</b> Attaches tray directly to the top of a standard rack	Zinc Plated Black	<b>HBTRA</b> <b>HBTRABK</b>
<b>Conduit Attachment</b> Connects conduit to tray (3/4", 1" and 1 1/4" conduit)	Pre-Galvanized Black	<b>HBTC A3</b> <b>HBTC A3BK</b>
<b>Nut and Bolt Sets</b> 1/4" - 20 nut and bolt sets; 50 pieces per box	Zinc Plated Stainless Steel	<b>HBTNB</b> <b>HBTNBSS</b>
<b>Cable Drop Outs</b> Black polymer inserts; Installed into the bottom of the basket tray to reduce pinch points and maintain a radius bend on the exiting cables	Black	<b>HBTCDBK</b>
<b>Large Cable Drop Outs</b> Black polymer inserts; Installed into the bottom of the basket tray to reduce pinch points and maintain a radius bend on the exiting cables (tray requires cutting to install)	Black	<b>HBTC D4X4BK</b>
<b>Strut Clips</b> Used to hold down basket tray when used with any standard industry strut supports; 50 pieces per box	Pre-Galvanized	<b>HBTSTRUTCLIP</b>
		<ul style="list-style-type: none"> <li>• 12" trays or smaller use 2 clips per strut support</li> <li>• 16" - 18" trays use 3 clips per strut support</li> <li>• Larger trays add one clip per strut support for every 6" of tray width</li> </ul>
<b>Grounding Split Bolts</b> These are sold in packs of 10. Bolts are used for supplemental grounding. One bolt is installed per section of basket tray. The installer must supply #6 AWG grounding wire	Copper Alloy	<b>HBTSPLITBOLTPK10</b>



Dimensions in Inches (mm)

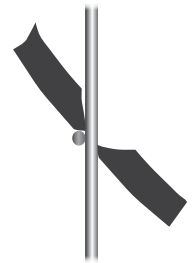


# Wire Basket Tray System

## Technical Support - Cutting and Forming Fittings

### Cutting Wire Basket Tray

- Always make field cuts with the side action angle cutting tool.
- Cuts can be made on any finish, width or depth basket tray.
- Cut as many segments required for sweep elbows (see Splice Quantity column on product pages).
- Remove any sharp edges to eliminate possible damage to cables.



(Side action cutter)

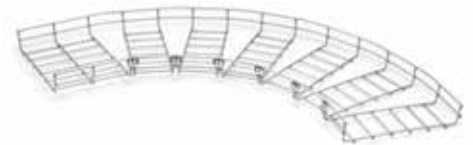
### Cutting Tool

Description	Weight (Lb/each)	Qty. per Box	Catalog Number
Manual offset angled cutting tool, 24" leveraged handle	6.0	1	<b>HBTCUTTOOL</b>



### How to Form a 90 Degree Flat Sweep Elbow

- Determine which wires must be cut for the type of fitting or redirection required. This will usually be the side and bottom wires of every other mesh section.
- Turn the tray over and cut the bottom wires.
- Cut the top side wire.
- Cut the remaining side wires.
- This creates open gaps in the side wall and bottom of the tray.
- Bend the tray to form the desired elbow radius curve by closing the gaps.
- Install splice kits and hardware where the wedge-shaped sections come together.
- Splice kits provide the mechanical connection as well as electrical grounding continuity.

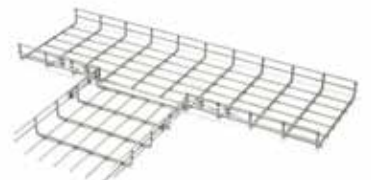
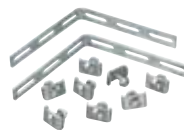


**HBTSK Splice Kit**

See page T-12 for ordering information.

### How to Form a Tee Fitting

- Determine the location of the horizontal "tee" fitting along the length of basket tray.
- Cut the side wires from the tray which shall be the horizontal tray section, to the same width as the perpendicular tray section.
- Do not cut the bottom wires.
- Align the perpendicular tray to the opening in the side of the horizontal tray.
- Position one angle bracket from the **HBTC**S corner splice kit on each side of the opening.
- Secure the angle brackets to the horizontal and perpendicular tray sections with splice kits (nut, bolt and washer) provided in the **HBTC**S corner splice kit.
- Support the tee fitting on all three sides of the "tee" using appropriate support method.



**HBTC**S Corner Splice

See page T-12 for ordering information.



# Wire Basket Tray System

## Wire Fill and Maximum Load Chart

Depth	Width	Area	Cat 5e (0.18" dia.) 50% Wire Fill	Cat 6 (0.23" dia.) 50% Wire Fill	Cat 6a (0.30" dia.) 50% Wire Fill	Max. Load (Lb/ft) (Supported at 6ft spacing)
2	4	8	157	96	57	45
2	6	12	236	144	85	50
2	8	16	315	193	113	52
2	12	24	472	289	170	58
2	16	32	629	385	226	70
2	18	36	708	433	255	70
2	20	40	786	482	283	73
2	22	44	865	530	311	73
2	24	48	944	578	340	75
2	26	52	1022	626	368	73
2	28	56	1101	674	396	73
2	30	60	1180	722	425	70
2	32	64	1258	771	453	70
4	4	16	315	193	113	49
4	6	24	472	289	170	49
4	8	32	629	385	226	78
4	12	48	944	578	340	78
4	16	64	1258	771	453	108
4	18	72	1415	867	510	116
4	20	80	1573	963	566	116
4	22	88	1730	1060	623	116
4	24	96	1887	1156	679	116
4	28	112	2202	1349	793	108
6	8	48	944	578	340	116
6	12	72	1415	867	510	123
6	16	96	1887	1156	679	123
6	18	108	2123	1300	764	127
6	20	120	2359	1445	849	127
6	22	132	2595	1589	934	127
6	24	144	2831	1734	1019	150
8	8	64	1258	771	453	116
8	12	96	1887	1156	679	116
8	16	128	2516	1541	906	116
8	18	144	2831	1734	1019	116
8	20	160	3145	1926	1132	116

### Sizes UL Classified or cUL Classified as equipment ground conductor

2" Depth	4" Depth	6" Depth	8" Depth
2 x 6	4 x 6	6 x 8	8 x 8
2 x 8	4 x 8	6 x 12	8 x 12
2 x 12	4 x 12	6 x 16	8 x 16
2 x 16	4 x 16	6 x 18	8 x 20
2 x 18	4 x 18	6 x 20	
2 x 20	4 x 20	6 x 22	
2 x 24	4 x 24	6 x 24	

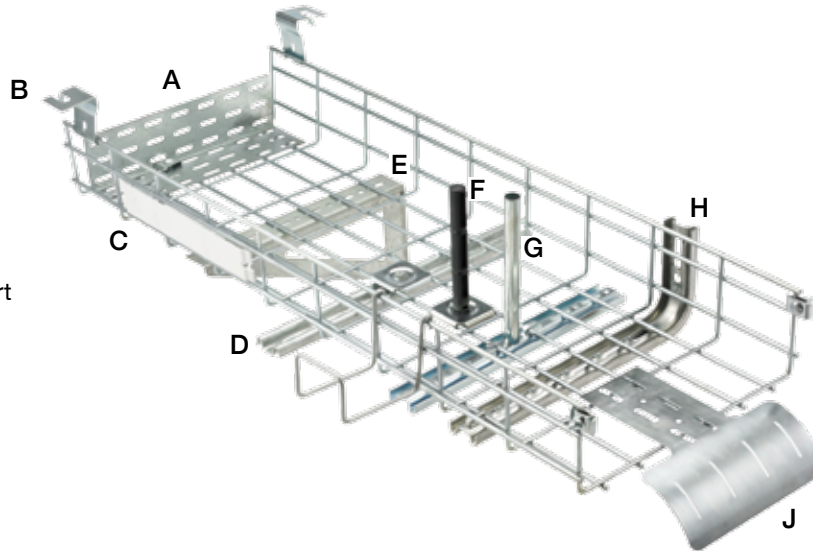
Note: Applicable to pre-galvanized and powder coat painted when spliced as recommended.  
Other non-UL sizes require external grounding conductor.  
Stainless steel is not UL listed.

### Instructions to Achieve Ground

- Use Hubbell splice kits (**HBTSK**) to achieve proper grounding at all splices, joints and fittings.
- Grounding lugs and external ground wire are not required when **HBTSK** splice kits are utilized with steel tray. (Stainless steel tray requires external grounding conductor.)

# Wire Basket Tray System

## Wire Basket Tray: Create a Bill of Material



- A Termination Support
- B Trapeze Clips
- C Label Clip
- D Ceiling Support
- E Shelf Support

- F Cable Guide
- G Center Support
- H L-Bracket
- I Splice Kit
- J Vertical Down

Job Name: \_\_\_\_\_

Location: \_\_\_\_\_

Date: \_\_\_\_\_

I. Tray Size	Fill in info
Depth (inches):	_____
Width (inches):	_____
Total linear feet:	_____
Total feet/10 = pieces:	_____

II. Finish	Check One
Pre-galvanized:	<input type="checkbox"/>
Painted black:	<input type="checkbox"/>
Stainless steel:	<input type="checkbox"/>
Electro-zinc plated:	<input type="checkbox"/>
Custom color paint:	<input type="checkbox"/>

III. Fittings	Qty
90° sweep elbow:	_____
Tee fitting:	_____
Cross-X fitting:	_____
45° sweep elbow:	_____
Reducer:	_____

IV. Splices	Qty*
Splice kits:	_____
Corner splice:	_____
Washer support:	_____
Bar splice:	_____

V. Supports (6ft spacing)	Qty
Ceiling:	_____
Center:	_____
Trapeze clips (use in pairs):	_____
Wall bracket:	_____
Termination support:	_____
Field fabricated from strut:	_____

VI. Cable management	Qty
Vertical down:	_____
Radius down:	_____
Cable guide:	_____
Side car:	_____

VII. Attachment hardware	Qty
Termination support or blank end:	_____
Electrical box bracket:	_____
Fitting attachment:	_____
Rack attachment:	_____
Conduit attachment:	_____

VIII. Tray accessories	Qty
Steel divider:	_____
Steel cover:	_____
Steel bottom insert:	_____
Polymer bottom insert:	_____
Label clip:	_____

Note: \*See product selection tables for quantities of splices. These are dependent upon tray size. Additional splices required for fittings.

# Wire Basket Tray System

## Technical Specifications

### 2.01 ACCEPTABLE MANUFACTURES

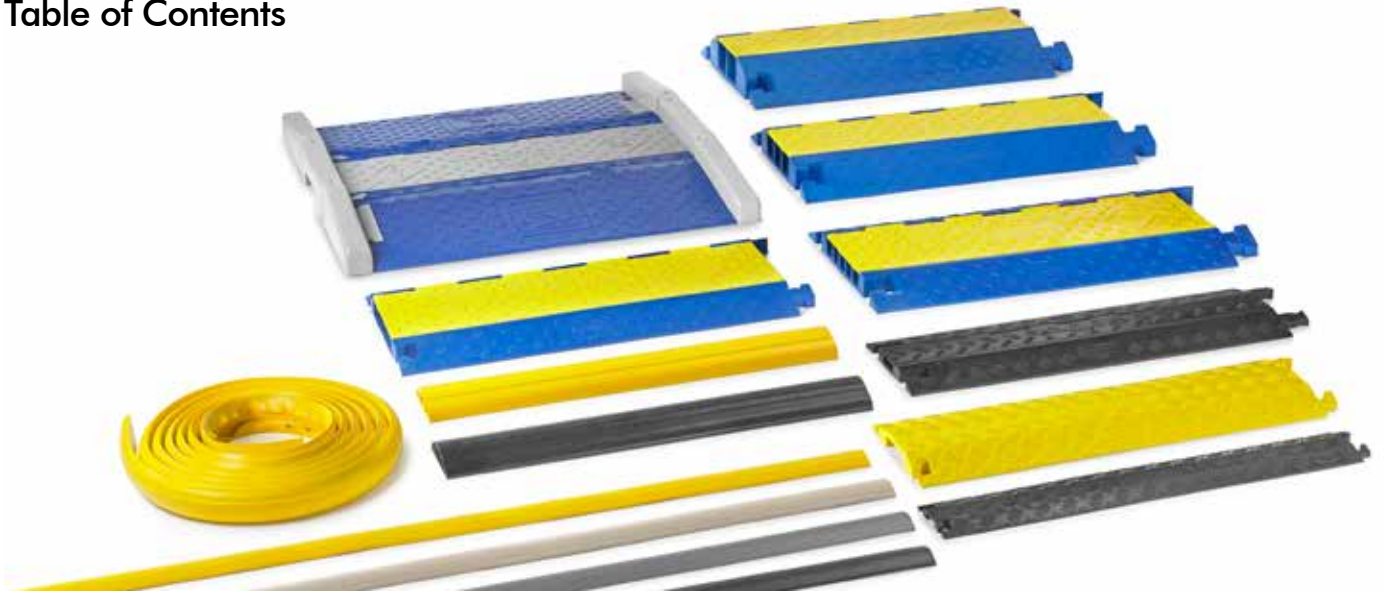
1. Manufacturer: Subject to compliance with these specifications wire basket tray systems to be installed shall be Hubbell "HBT" series.

### 2.02 WIRE TRAY SECTIONS AND COMPONENTS

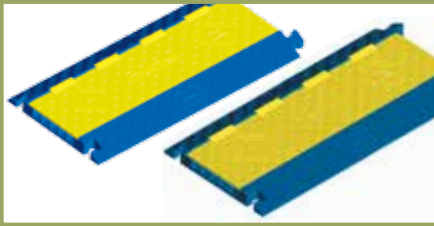
1. Provide wire basket of types and sizes indicated with all required splicing and mounting hardware. Construct units with T-weld edges and smooth surfaces in compliance with applicable standards and with the following additional construction features.
  - A. All straight section longitudinal wires shall be constructed with a continuous top wire safety edge. Safety edge must be T-welded on all tray sizes.
  - B. Wire basket cross-wire to be constructed with either flat shaped wire design or with round wire design as directed by engineer.
    - Flat shaped cross wire design shall provide additional surface area for cable weight support and to avoid pressure points and strain on cables.
    - Round shaped cross wire design may be used in general purpose applications where cable weight and strain are not concerns.
2. Materials and Finishes: Material and finish specifications for Carbon Steel Wire and Pre-Galvanized steel wire are as follows:
  - A. Pre-galvanized Zinc: Straight section shall be made from pre-galvanized steel meeting the minimum mechanical properties of ASTM A 641. Material must be cleaned after fabrication to remove any soot, manufacturing residue/oils or metallic particles.
  - B. Powder Coat: Straight sections shall be powder coated black with an average paint thickness of 1.2mils (30microns) to 3.0mils (75microns). Hubbell powder coat product is masked at splice points to allow conductive ground design; no field paint removal is required.
  - C. Stainless Steel: Straight sections and accessories shall be made from AISI Type 304L, 316L Stainless Steel (meeting the minimum mechanical properties of ASTM A 580).
  - D. Electro-Plated Zinc Galvanized (Post Plated) Made from Carbon Steel and plated to ASTM B 633, Type III, SC-1.
  - E. Hot Dip Galvanized: Plain steel (ASTM A510) dip after fabricated and formed. ASTM A123.
3. Wire basket shall be made of high strength steel wires and formed into a standard 2-inch by 4-inch wire mesh pattern with intersecting wires welded together. All mesh sections must have at least one bottom longitudinal wire along entire length of straight section.
4. Wire basket sizes shall conform to the following nominal criteria:
  - A. Straight sections shall be furnished in standard 118" (3m) lengths.
  - B. Wire diameter shall be 0.195" (5mm) minimum on all mesh sections. Wire diameter shall be minimum size of 4.5mm on stainless steel.
  - C. Wire basket shall have a 2-inch usable loading depth by (4), (6), (8), (10), (12), (14), (16), (18), (20), (22), (24), (26), (28), (30), (32) inches wide.
  - D. Wire basket shall have a 4-inch usable loading depth by (4), (6), (8), (10), (12), (14), (16), (18), (20), (22), (24), (26), (28) inches wide.
  - E. Wire basket shall have a 6-inch usable loading depth by (8), (10), (12), (14), (16), (18), (20), (22), (24) inches wide.
  - F. Wire basket shall have an 8-inch usable loading depth by (8), (10), (12), (14), (16), (18), (20) inches wide.
5. All fittings shall be field formed from straight sections in accordance with manufacturer's instructions.
6. All Tray sections and splicing assemblies shall be UL/C-UL Classified as an Equipment Ground Conductor (EGC).
7. Wire mesh basket tray supports shall be ceiling trapeze type, center support, trapeze clips, or wall brackets as manufactured by Hubbell.
8. Special accessories shall be furnished as required to protect, support and install a wire basket support system.

# SECTION U

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TrukTrak® and TredTrak® Systems



AccessTrak® Systems



ProTrak™ Systems

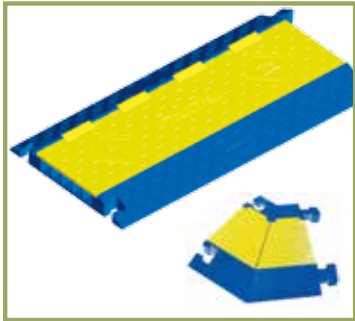


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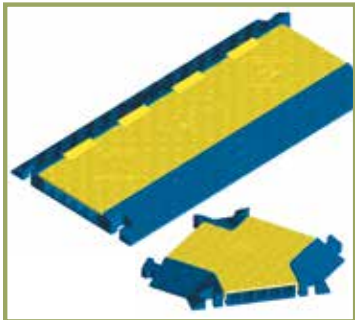
# Hose and Cable Protection Systems

## Products at a Glance



### TrukTrak® Systems

- High density polyurethane construction supports heavy loads and is weather resistant
- Modular interlocking design for easy installation, breakdown and storage
- Safety surface pattern reduces slipping and skidding
- High visibility safety blue and yellow colors



### TredTrak® Systems

- High density polyurethane construction supports heavy loads and is weather resistant
- Modular interlocking design for easy installation, breakdown and storage
- Safety surface pattern reduces slipping and skidding
- High visibility safety blue and yellow colors



### AccessTrak® Systems

- This interlocking system provides a safe, flexible means of protecting cables and hoses in areas requiring ADA compliance
- High density polyurethane construction is weather resistant
- AccessTrak is an expandable five channel system that expands by length or width
- High visibility safety symbols on blue and gray colors



### ProTrak™ Systems

- High density polyurethane construction supports heavy loads and is weather resistant
- Modular interlocking design for easy installation, breakdown and storage
- Safety surface pattern reduces slipping and skidding
- High visibility safety yellow and black
- Anti-slip pad kits available



### FloorTrak® Floor Cable Cover

- Flexible and rigid PVC material
- Protects and reduces trip hazards
- Available in four different sizes and five PVC colors to blend with the various decors
- Withstands temperatures of 0°F to +120°F (-18°C to +49°C)



# Hose and Cable Protection Systems

## Features and Benefits



**Hubbell TrukTrak®** non-metallic cable protectors are designed to safeguard electrical cables and cords from vehicle and pedestrian traffic. The TrukTrak interlocking system comes in two, three and five channel sizes and will protect cables up to 3.25 inches (82.6mm) in diameter. It is ideal for the industrial environment where it is necessary to support heavy trucks and fork lifts.



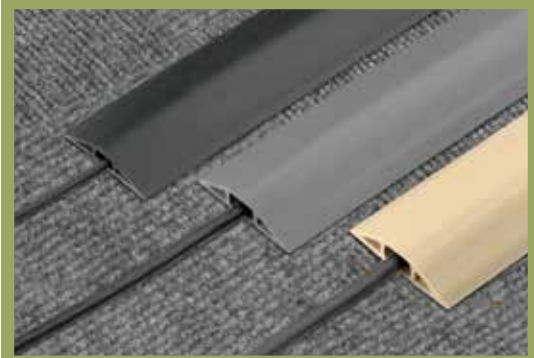
**TredTrak®** non-metallic cable protectors can also be interlocked to protect cables and cords of any length. The TredTrak system is a five channel modular cable protection system that will protect cable diameters up to 1.28 inches (32.5mm). It is designed to support pedestrian and light vehicle traffic in public, institutional and commercial applications. The Hubbell modular cable protection line also permits compliance with NEC® requirements (Article 525) for insulating electrical cables and cord at carnivals, amusement parks, convention centers and similar public areas.



**The AccessTrak® ramping system** is a modular cable protection product that enables users to be ADAAG (American Disabilities Act Accessibility Guidelines) compliant and limits the exposure of cables and hoses to people and light vehicles passing over those cables and hoses. AccessTrak is an expandable five channel system that will protect cable and hose diameters up to 1.31 inches (33.0mm). For applications requiring more than five channels, AccessTrak can be expanded by width. In addition, AccessTrak is interlocking expandable by length to protect cables and hoses of any length. The AccessTrak ramping system provides a safe, flexible means of protecting cables and hoses in areas requiring ADA compliance.



**ProTrak™** non-metallic single channel cable protectors are suitable for lightweight vehicle and pedestrian traffic. Available in both black and yellow. The drop over PROTRK115 series can accommodate up to 0.75 inches (19.0mm), while the PROTRK140 can handle up to 1.50 inches (38.1mm). The hinged covered PROTRK1225 series can accommodate up to 0.75 inches (19.0mm). A unique tread surface provides maximum traction. ProTrak™ cable protectors can be interlocked as a single color run or as a yellow and black run.



**FloorTrak®** is a flexible, non-metallic cover for cables that run over the floor when portable cords and cables cannot be concealed or routed away from traffic patterns. FloorTrak protects, organizes and reduces trip hazards. Four different sizes mean it will handle cables of up to 1.25 inches (31.8mm) in diameter. FT2, FT3 and FT4 are available in five PVC colors to blend with the various decors. FT10 is available in black and yellow colors only. The F10 Heavy Duty FloorTrak is ideal for applications such as industrial work areas, food processing plants and abusive areas where cable management is necessary.

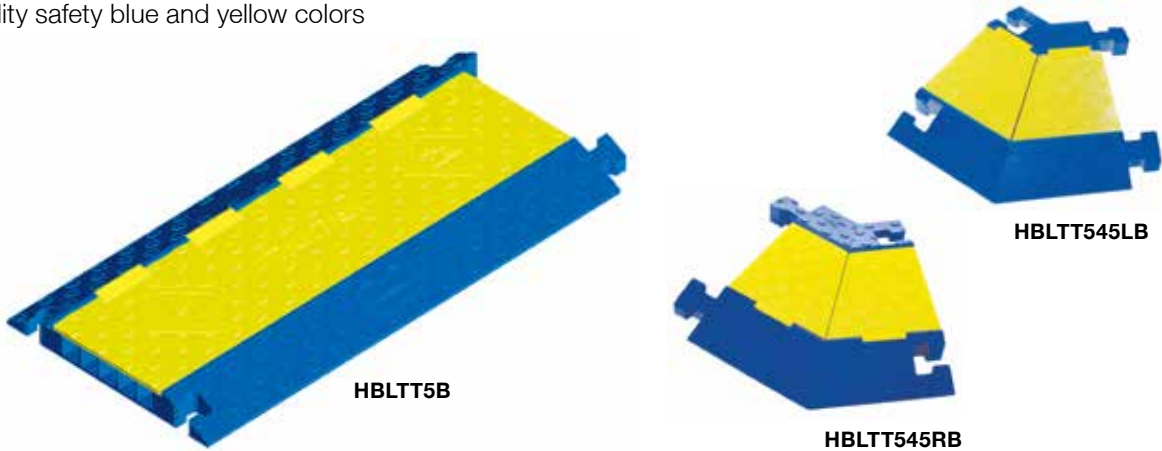
NEC® is a registered trademark of the The National Electrical Code.

# Hose and Cable Protection Systems

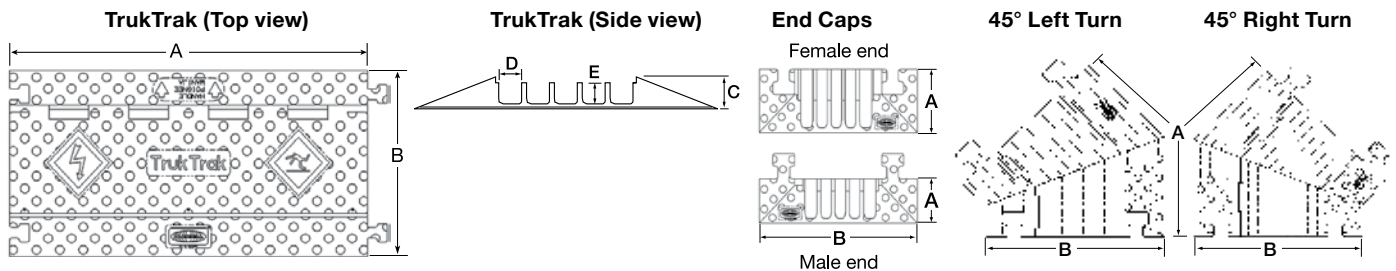
## TrukTrak® Systems

Ideal for Heavy Vehicle Traffic in Industrial, Commercial or Public Applications

- High density polyurethane construction supports heavy loads and is weather resistant
- Modular interlocking design for easy installation, breakdown and storage
- Safety surface pattern reduces slipping and skidding
- High visibility safety blue and yellow colors



TrukTrak® Systems	Trak			Channel			Catalog Number
	Length in. (mm)	Width in. (mm)	Height in. (mm)	Width in. (mm)	Height in. (mm)	Weight lbs. (kg)	
5 Channel TrukTrak®, blue and yellow.	36.0" (914)	20" (508)	2.31" (58.7)	1.25" (31.8)	1.25" (31.8)	30.60 (13.9)	<b>HBLTT5B</b>
5 Channel TrukTrak® end caps (pair only), yellow.	7.50" (190)	20" (508)	2.31" (58.7)	1.25" (31.8)	1.25" (31.8)	8.55 (3.9)	<b>HBLTT5ECB</b> (Female end)
	5.25" (133)	20" (508)	2.31" (58.7)	1.25" (31.8)	1.25" (31.8)	8.55 (3.9)	(Male end)
5 Channel 45° right turn TrukTrak®, blue and yellow.	25.0" (635)	20" (508)	2.31" (58.7)	1.25" (31.8)	1.25" (31.8)	15.35 (7.0)	<b>HBLTT545RB</b>
5 Channel 45° left turn TrukTrak®, blue and yellow.	25.0" (635)	20" (508)	2.31" (58.7)	1.25" (31.8)	1.25" (31.8)	14.45 (6.6)	<b>HBLTT545LB</b>
3 Channel TrukTrak®, blue and yellow.	36.0" (914)	20" (508)	3.05" (77.5)	2.25" (57.2)	2.25" (57.2)	30.85 (14.0)	<b>HBLTT3B</b>
3 Channel TrukTrak® end caps (pair only), yellow.	8.25" (209)	20" (508)	3.05" (77.5)	2.25" (57.2)	2.25" (57.2)	10.25 (4.6)	<b>HBLTT3ECB</b> (Female end)
	6.38" (162)	20" (508)	3.05" (77.5)	2.25" (57.2)	2.25" (57.2)	10.25 (4.6)	(Male end)
2 Channel TrukTrak®, blue and yellow.	36.0" (914)	22" (559)	4.13" (104.9)	3.25" (82.6)	3.25" (82.6)	41.00 (18.6)	<b>HBLTT2B</b>



### Specifications

Material	Polyurethane.
Operating Temperature	-40°F to +120°F (-40°C to +49°C).
Hinge Material	Reinforced fiberglass.
Safety Symbols	Per ANSI Z535.3.

### Load Capacity

No. of Channels	Test Fixture Footprint Inches (mm)	Tire Load lbs. +/- 20%		Axle Load lbs. +/- 20%	
		70°F (21°C)	120°F (49°C)	70°F (21°C)	120°F (49°C)
5	6.9" x 17.3" (175 X 439)	20,150	9,200	40,300	18,400
3	6.9" x 17.3" (175 X 439)	14,210	4,653	18,420	9,306
2	6.9" x 17.3" (175 X 439)	10,880	2,095	21,760	4,190

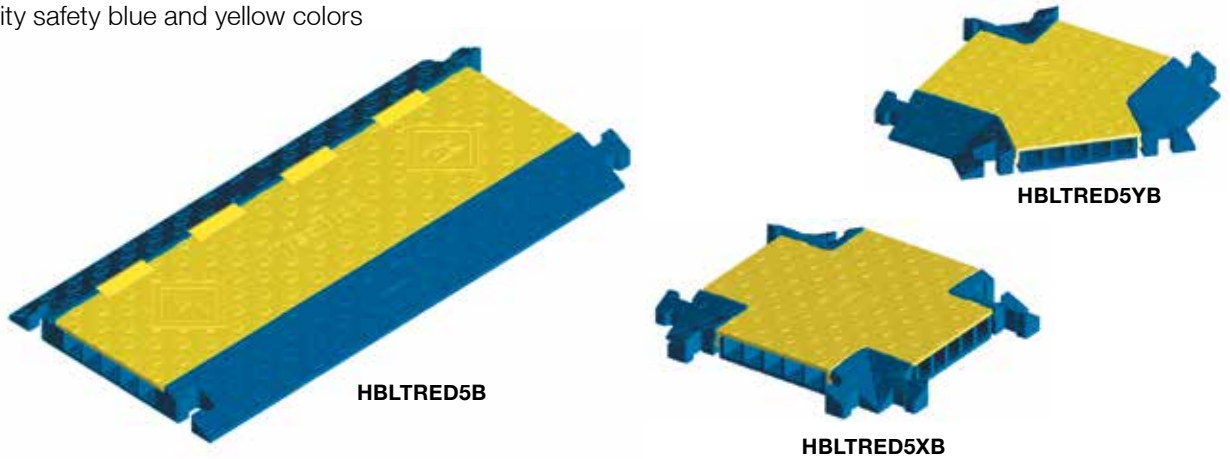
Dimensions in Inches (mm)

# Hose and Cable Protection Systems

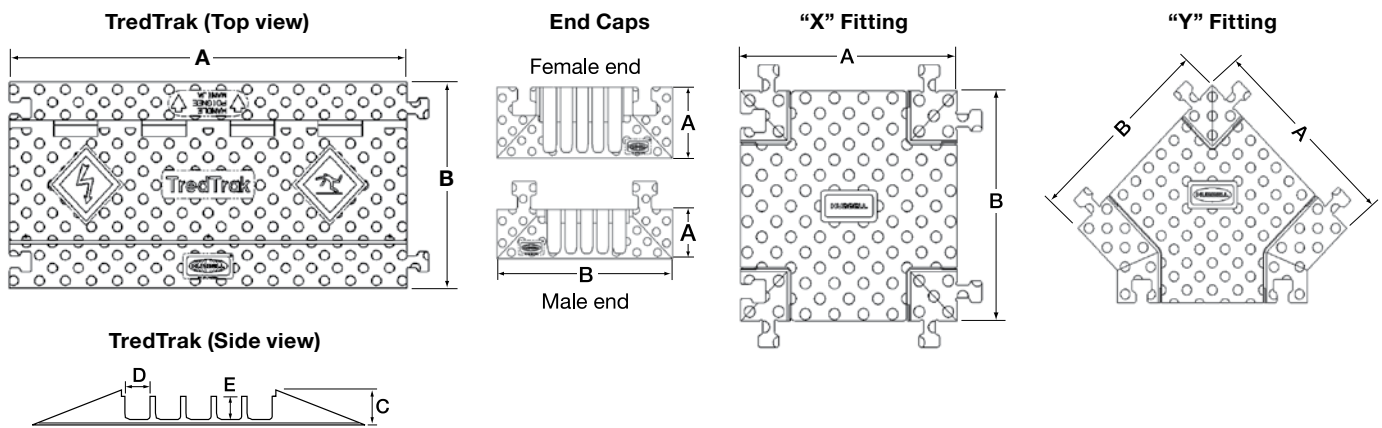
## TredTrak® Systems

Improves Pedestrian Safety by Decreasing Risk of Tripping

- High density polyurethane construction supports heavy loads and is weather resistant
- Modular interlocking design for easy installation, breakdown and storage
- Safety surface pattern reduces slipping and skidding
- High visibility safety blue and yellow colors



TredTrak® Systems	Trak			Channel			Catalog Number
	A	B	C	D	E	Weight lbs. (kg)	
Description	Length in. (mm)	Width in. (mm)	Height in. (mm)	Width in. (mm)	Height in. (mm)		
5 Channel TredTrak®, blue and yellow.	36.0" (914)	17.5" (445)	1.95" (50)	1.30" (33)	1.30" (33)	21.15 (9.6)	<b>HBLTRED5B</b>
5 Channel TredTrak® end caps (pair only), yellow.	5.75" (146)	17.5" (445)	1.95" (50)	1.30" (33)	1.30" (33)	6.40 (2.9)	<b>HBLTRED5ECB</b> (Female end)
	5.75" (146)	17.5" (445)	1.95" (50)	1.30" (33)	1.30" (33)	6.40 (2.9)	(Male end)
5 Channel TredTrak® female end caps (2 females), yellow.	5.75" (146)	17.5" (445)	1.95" (50)	1.30" (33)	1.30" (33)	6.40 (2.9)	<b>HBLTRED5ECFB</b>
5 Channel "X" fitting, blue and yellow.	17.5" (445)	17.5" (445)	1.95" (50)	1.30" (33)	1.30" (33)	14.25 (6.5)	<b>HBLTRED5XB</b>
5 Channel "Y" fitting, blue and yellow.	17.5" (445)	17.5" (445)	1.95" (50)	1.30" (33)	1.30" (33)	13.95 (6.3)	<b>HBLTRED5YB</b>



### Specifications

Material	Polyurethane.
Operating Temperature	-40°F to +120°F (-40°C to +49°C).
Hinge Material	Reinforced fiberglass.
Safety Symbols	Per ANSI Z535.3.

### Load Capacity

Product	Test Fixture Footprint Inches (mm)	Tire Load lbs. +/- 20%		Axle Load lbs. +/- 20%	
		70°F (21°C)	120°F (49°C)	70°F (21°C)	120°F (49°C)
TredTrak	6.9" x 17.3" (175 X 439)	10,500	6,500	21,000	13,000
"X" Fitting	6.9" x 17.3" (175 X 439)	2,900	2,300	5,800	5,600
"Y" Fitting	6.9" x 17.3" (175 X 439)	2,900	2,300	5,800	5,600

Dimensions in Inches (mm)

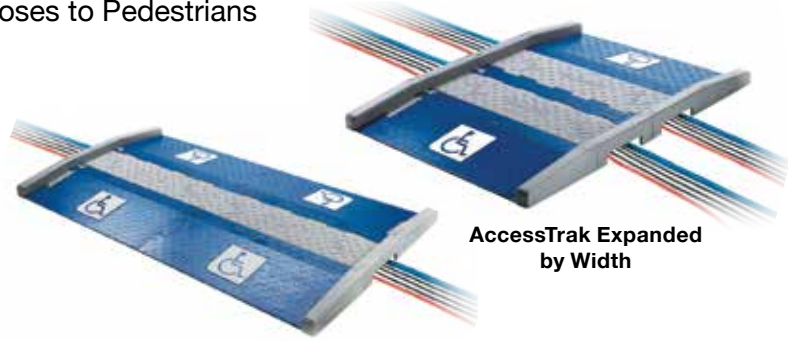


# Hose and Cable Protection Systems

## AccessTrak® Systems

### ADA Compliant Limits Exposure of Cables and Hoses to Pedestrians

- This interlocking system provides a safe, flexible means of protecting cables and hoses in areas requiring ADA compliance
- High density polyurethane construction is weather resistant
- AccessTrak is an expandable five channel system that expands by length or width
- High visibility safety symbols on blue and gray colors



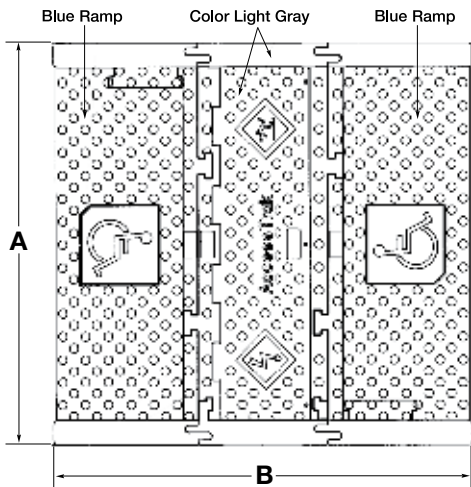
AccessTrak Expanded by Length

AccessTrak® System	Trak			Channel			Catalog Number
	A	B	C	D	E		
Description	Length in. (mm)	Width in. (mm)	Height in. (mm)	Width in. (mm)	Height in. (mm)	Weight lbs. (kg)	
5 Channel AccessTrak® kit*, blue and gray.	41.06" (1043.0)	42.90" (1090.0)	4.00" (102.0)	1.34" (34.0)	1.31" (33.0)	73.65 (33.41)	<b>HBLAT5KITA</b>
5 Channel AccessTrak® trough, blue and gray.	36.00" (914.0)	13.34" (339.0)	1.94" (49.0)	1.34" (34.0)	1.31" (33.0)	22.35 (10.14)	<b>HBLAT5A</b>
AccessTrak® trough end rails (set), gray.	2.50" (63.0)	13.28" (337.0)	4.00" (102.0)	—	—	6.95 (3.15)	<b>HBLAT5ERA</b>
AccessTrak® ramps (set), blue.	36.00" (914.0)	14.50" (368.0)	1.94" (49.0)	—	—	29.90 (13.56)	<b>HBLAT5RAMPA</b>
AccessTrak® ramp end rails (set), gray.	2.50" (63.5)	14.75" (375.0)	4.00" (102.0)	—	—	8.05 (3.65)	<b>HBLAT5RAMPERA</b>

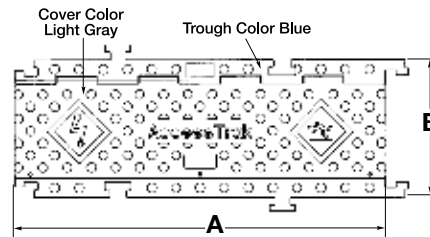
Note: \*Consists of (1) HBLAT5A; (1 set) HBLAT5ERA; (1 set) HBLAT5RAMPA; (2 sets) HBLAT5RAMPERA.

### Assembled Kit

Accessibility label, blue symbol, white background



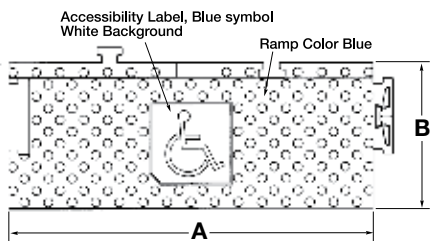
### Trough (top view)



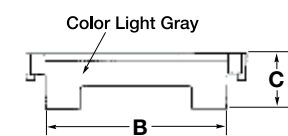
### Trough (side view)



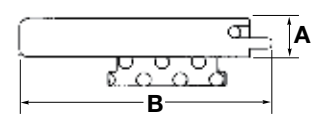
### Ramp (top view)



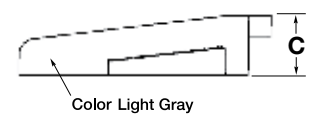
### Trough End Rails (side view)



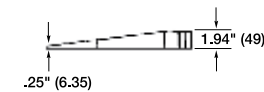
### Ramp End Rails (top view)



### Ramp End Rails (side view)



### Ramp (side view)



### Specifications

Material	Polyurethane.
Operating Temperature	-40°F to +120°F (-40°C to +49°C).
Hinge Material	Reinforced fiberglass.
Safety Symbols	Per ANSI Z535.3-1991.
ADA Symbols	Per ADAAG "Symbols of Accessibility"

### Load Capacity

Product	Test Fixture Footprint Inches (mm)	Measured Load lbs. (N) +/- 20%	
		70°F (21°C)	120°F (49°C)
AccessTrak	7" x 7" (178 x 178)	10,000 (44,480)	8,000 (35,584)

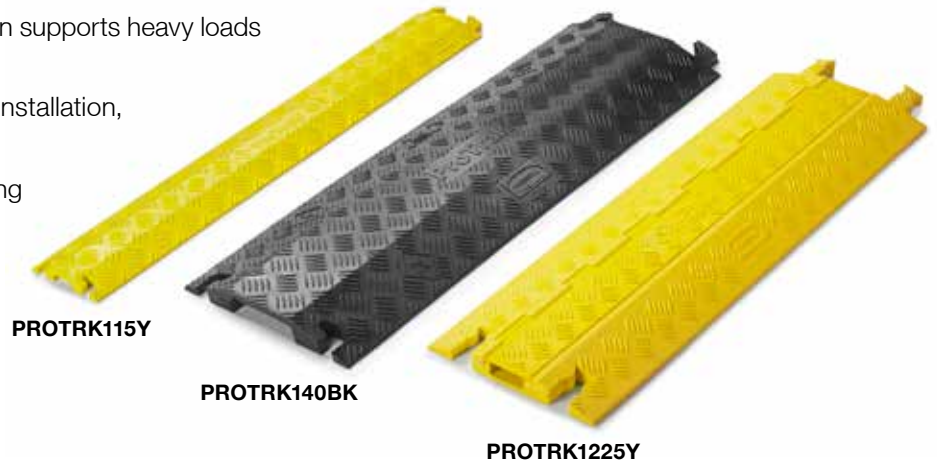
Dimensions in Inches (mm)

# Hose and Cable Protection Systems

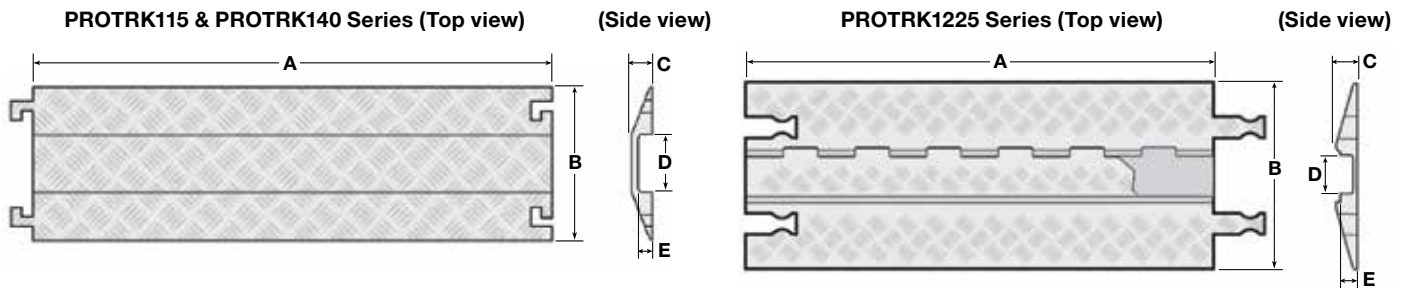
## ProTrak™ Systems

For Pedestrian and Light Vehicle Traffic

- High density polyurethane construction supports heavy loads and is weather resistant
- Modular interlocking design for easy installation, breakdown and storage
- Safety surface pattern reduces slipping and skidding
- High visibility safety yellow and black
- Anti-slip pad kits available



ProTrak™ Systems	Trak			Channel			Catalog Number
	Length in. (mm)	Width in. (mm)	Height in. (mm)	Width in. (mm)	Height in. (mm)	Weight lbs. (kg)	
1 Channel, drop over, yellow	36.0" (914)	5.25" (133)	.75" (19.0)	1.50" (38.1)	.50" (12.7)	3.00 (1.40)	<b>PROTRK115Y</b>
1 Channel, drop over, black	36.0" (914)	5.25" (133)	.75" (19.0)	1.50" (38.1)	.50" (12.7)	3.00 (1.40)	<b>PROTRK115BK</b>
1 Channel, drop over, yellow	36.0" (914)	10.75" (273)	1.50" (38.1)	4.00" (101.6)	1.00" (25.4)	8.00 (3.60)	<b>PROTRK140Y</b>
1 Channel, drop over, black	36.0" (914)	10.75" (273)	1.50" (38.1)	4.00" (101.6)	1.00" (25.4)	8.00 (3.60)	<b>PROTRK140BK</b>
1 Channel, hinged cover, yellow	36.0" (914)	10.81" (274)	1.25" (31.8)	2.25" (57.2)	.75" (19.0)	7.80 (3.54)	<b>PROTRK1225Y</b>
1 Channel, hinged cover, black	36.0" (914)	10.81" (274)	1.25" (31.8)	2.25" (57.2)	.75" (19.0)	7.80 (3.54)	<b>PROTRK1225BK</b>



## Accessories

ProTrak Series	Anti-Slip Pad Kits*
PROTRK115	<b>PROTRK1ASPK</b>
PROTRK140	<b>PROTRK2ASPK</b>
PROTRK1225	<b>PROTRK3ASPK</b>

\*One kit per section



## Load Capacity

Product	Test Fixture Footprint Inches (mm)	Tire Load lbs. +/- 20%	Axle Load lbs. +/- 20%
		70°F (21°C)	70°F (21°C)
PROTRK115	6.9" x 17.3" (175 X 439)	10,500	21,000
PROTRK140	6.9" x 17.3" (175 X 439)	10,500	21,000
PROTRK1225	6.9" x 17.3" (175 X 439)	13,000	26,000

Dimensions in Inches (mm)





# Hose and Cable Protection Systems

## FloorTrak® Floor Cable Cover

For Pedestrian Traffic in Office and Public Areas

- Flexible and rigid PVC material
- Protects and reduces trip hazards
- Available in four different sizes and five PVC colors to blend with the various decors
- Withstands temperatures of 0°F to +120°F (-18°C to +49°C)

FT2BK10

FT3BK5

FT4BK5

FT10BK5

### FloorTrak® 2\*

Color	Length Feet (meters)	Catalog Number
Black	10.0' (3.05)	<b>FT2BK10</b>
Brown	10.0' (3.05)	<b>FT2BR10</b>
Beige	10.0' (3.05)	<b>FT2BG10</b>
Gray	10.0' (3.05)	<b>FT2GY10</b>
Yellow	10.0' (3.05)	<b>FT2Y10</b>

### FloorTrak® 3\*

Color	Length Feet (meters)	Catalog Number
Black	5.0' (1.52)	<b>FT3BK5</b>
Black	25.0' (7.62)	<b>FT3BK25</b>
Brown	5.0' (1.52)	<b>FT3BR5</b>
Brown	25.0' (7.62)	<b>FT3BR25</b>
Beige	5.0' (1.52)	<b>FT3BG5</b>
Beige	25.0' (7.62)	<b>FT3BG25</b>
Gray	5.0' (1.52)	<b>FT3GY5</b>
Gray	25.0' (7.62)	<b>FT3GY25</b>
Yellow	5.0' (1.52)	<b>FT3Y5</b>
Yellow	25.0' (7.62)	<b>FT3Y25</b>

### FloorTrak® 4

Color	Length Feet (meters)	Catalog Number
Black	5.0' (1.52)	<b>FT4BK5</b>
Black	25.0' (7.62)	<b>FT4BK25</b>
Gray	25.0' (7.62)	<b>FT4GY25</b>
Yellow	5.0' (1.52)	<b>FT4Y5</b>
Yellow	25.0' (7.62)	<b>FT4Y25</b>

### FloorTrak® 10 (Heavy Duty)

Color	Length Feet (meters)	Catalog Number
Black	3.0' (.914)	<b>FT10BK3</b>
Black	5.0' (1.52)	<b>FT10BK5</b>
Yellow	3.0' (.914)	<b>FT10Y3</b>
Yellow	5.0' (1.52)	<b>FT10Y5</b>

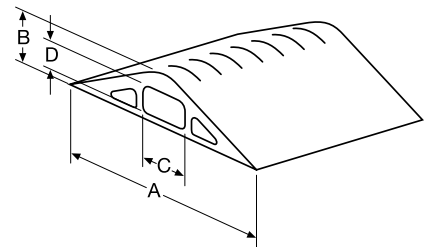
### Accessories

Description	Catalog Number
1" Wide, 75' Roll Double-Sided Adhesive Tape.	<b>FTT1</b>
2" Wide, 75' Roll Double-Sided Adhesive Tape.	<b>FTT2</b>

\*ADA Compliant Section 4.5.2

### Dimensions

FloorTrak®	FT2 in. (mm)	FT3 in. (mm)	FT4 in. (mm)	FT10 (Heavy Duty) in. (mm)
Width (A)	2.75" (69.9)	3.00" (76.2)	3.25" (82.6)	5.6" (142.24)
Height (B)	.53" (13.5)	.75" (19.1)	1.10" (27.9)	1.7" (43.18)
Center Hole (Cx D)	.60" x .31" (15.2) x (7.9)	.75" x .50" (19.1) x (12.7)	1.21" x .75" (30.7) x (19.1)	1.81" x 1.25" (45.98 x 31.75)



### Specifications

Material	Rigid PVC.
Operating Temperature	0°F to +120°F (-18°C to +49°C).

Dimensions in Inches (mm)

# SECTION V

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### Pulling Grips



### Support Grips



### Cord Connectors



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## Products at a Glance



### Pulling Grips

- The galvanized steel mesh grip provides strength for secure pulling jobs
- Endless weave allows easy installation onto cable
- Flexible or rotating eyes will mate easily with line stringing swivels for attachment to pulling lines; they have great strength for trouble free pulling jobs
- Shoulder protectors contain the cable inside the grip



### Support Grips

- Solid eye assemblies provide eye reinforcement at support hardware
- Four eye styles available: single, double, universal and offset
- Identification tag shows: catalog number, diameter range, agency approval and bar code
- Available in tin coated bronze, stainless steel and non-metallic aramid fiber



### Fiber Optic Cable Grips

- Pulling Grips are used for outside plant cable; they are easy to install and remove, reusable and have a slim profile for small build up
- OPTISOK® Grip is a revolutionary tool to pull pre-terminated fiber optic cables. They will protect the connectors and guide the bundle through the pulling environment
- Will support the cable's weight as it hangs in vertical, sloping or horizontal position



### Strain Relief Grips

- Stainless steel mesh is corrosion resistant. Can be used inside or outside
- Multiweave grip gives cable arc-of-bend control minimizing cable damage and extending cable life
- A liquidtight fitting is available with both cable and conduit fittings; prevents liquids from running through the fitting into the enclosure



### Cord Connectors

- Machined threads provide a strong positive seal; the tapered interior dome easily drives the bushing into the connector bod
- Patented GOTCHA® ring incorporates a split hinge design to prevent friction and provide strain relief
- Lubricated neoprene bushing compresses easily for a liquidtight seal and added pull-out protection



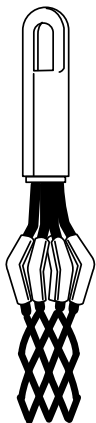
### PolyTuff® Non-Metallic Liquidtight Conduit and Fittings

- Nylon compression nut has a tapered dome to tighten ferrule onto conduit
- Tapered, machined threads fasten securely and provide additional liquidtight sealing
- Non-integral, reusable steel, ferrule is easily installed, to seal conduit
- PVC tubing handles twists, turns, bends, switchbacks and straightaways with ease
- UL listed/recognized and CSA certified

# Kellems® Wire Management Products

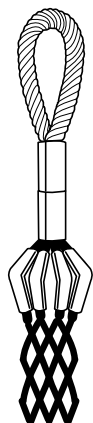
## Quick Reference Selection Guide for Grip Applications

### Pulling Grips



#### Heavy-Duty Rotating Eye

For underground wiring and overhead heavy-duty pulling of service lines and new construction cable. See pages V-8 and V-9.



#### Heavy-Duty Flexible Eye

For overhead transmission and distribution line stringing. See pages V-7, V-8, and V-10.



#### Slack Grips

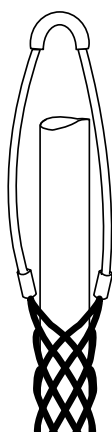
For removing underground cable and pulling slack in existing cable and new installations and when end of cable is not available. See pages V-11 and V-12.



#### Light-Duty Flexible Eye

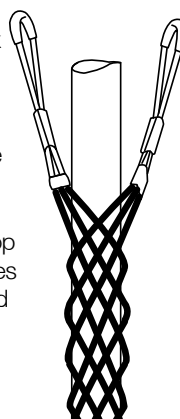
For light industrial pulling of electrical cable and for underground and industrial plant wiring and re-wiring. See page V-13.

### Support Grips



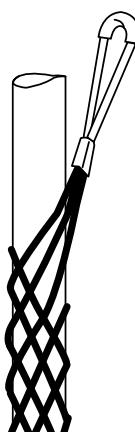
#### Single Eye

For single hook attachment of permanent indoor/outdoor cable. Available on heavy-duty, standard duty, and service drop grips. See pages V-20, V-24, and V-26.



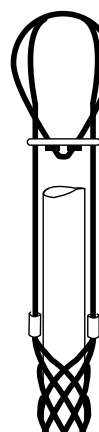
#### Double Eye

For double hook attachment of permanent indoor/outdoor cable. Available on heavy-duty and standard duty grips. See pages V-21 and V-25.



#### Single Offset Eye

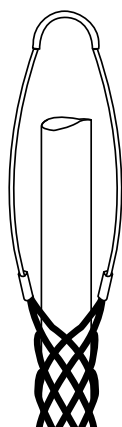
For offset hook attachment of permanent indoor/outdoor cable. Available on standard duty and light-duty support grips. See page V-22.



#### Universal Eye

Used to fasten around a structure or closed loop. Available on standard duty support and light or heavy duty service drop grips. See pages V-23 and V-27.

### Support Grips



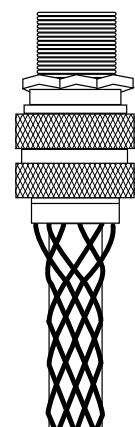
#### Wide Range Bus Drop

Used indoors for cable support where flexible cable connects electrical equipment to bus duct. Support air hose and water hose. See page V-28.



#### Dust-Tight Strain Relief

Indoor use only for wiring of electrical enclosures, machine tools, portable power tools, bus drop cable systems. See page V-55.



#### Deluxe Cord

Indoor or outdoor use where subject to moisture, splash, or washdown. Examples are enclosures, crane hoist and pendant drop stations, hand tools, pumps, and processing equipment. Available in straight, 90°, or 45° configurations. See pages V-50 to V-54.



#### Liquid-Tight, Flexible Metal Conduit

Wiring of machine tools, electrical enclosures, motors, and systems subjected to vibration, flexure, motion, or strain. Available in straight, 90°, or 45° configurations. See pages V-58 to V-60.

### Other Specialty Grips

#### Splicing Grips

Used as temporary splice for cable and wire rope, or as reinforcement to protect cables and hoses. See pages V-14 and V-15.

#### Conduit Riser Grips

Ideal for supporting electrical wires inside rigid conduit via a supporting ring. See pages V-29 to V-31.

#### Hose Containment Grips

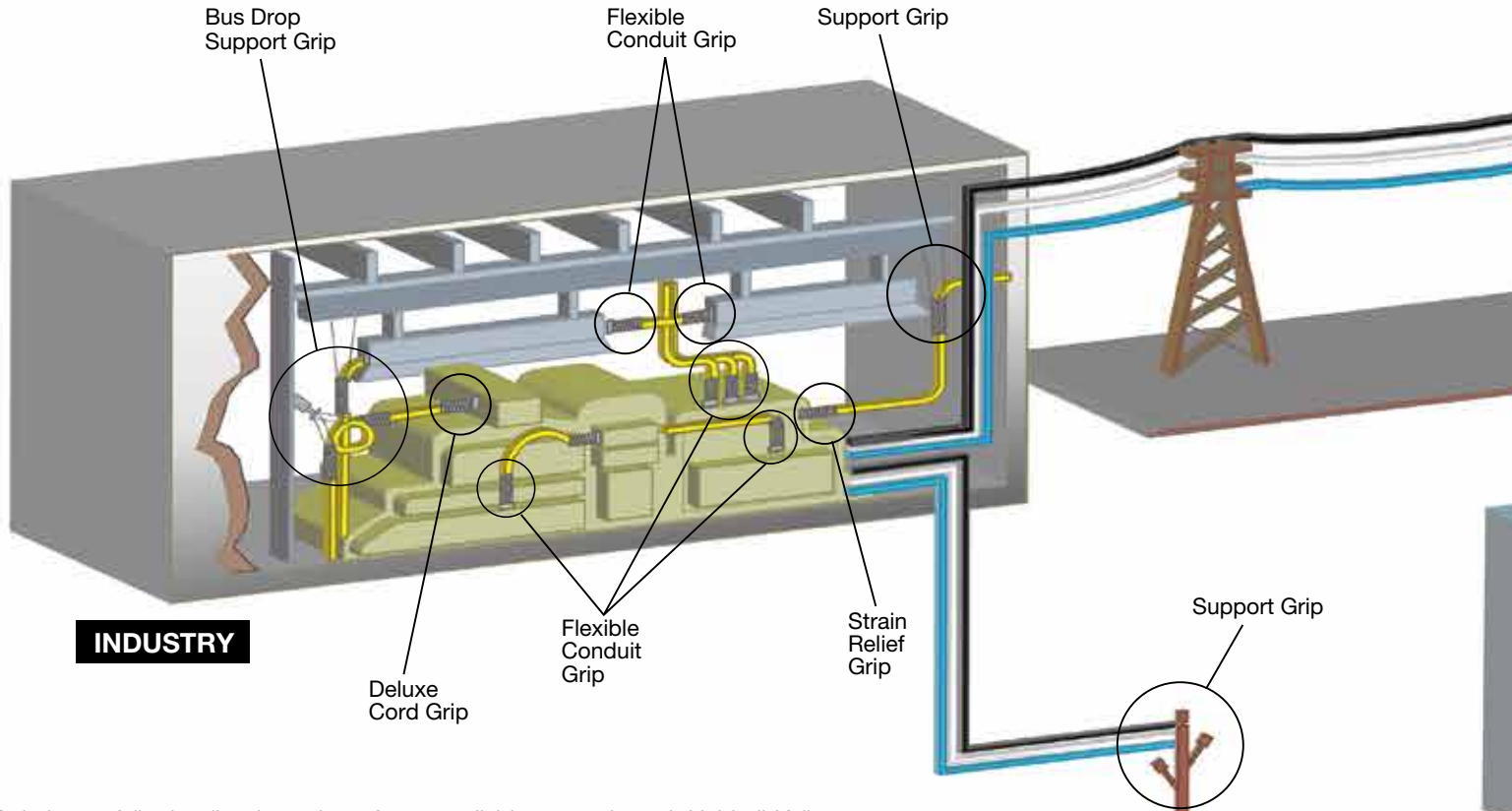
Used on flexible hose lines to prevent violent whipping of hose in the event of failure at the fitting. See pages V-46 and V-47.

*Specifications are subject to change without notice.*



# Kellems® Wire Management Products

## Kellems® Wire Mesh Grips Diagram



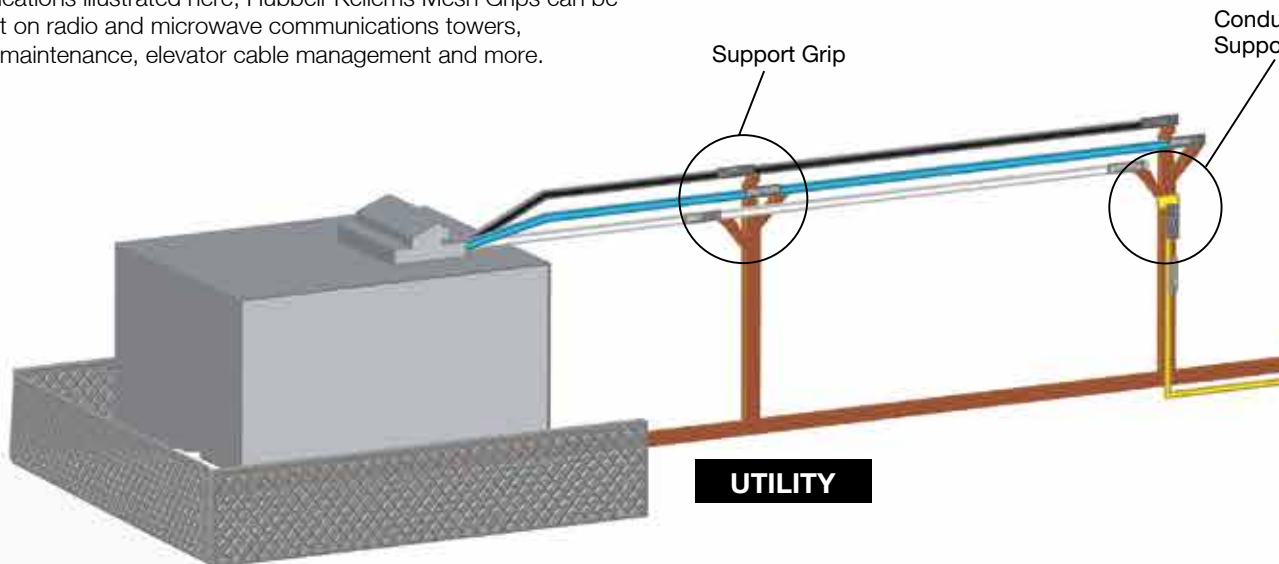
To help you fully visualize the variety of uses available to you through Hubbell-Kellems Mesh Grips, we have prepared this diagram of common applications. It follows the typical pattern of usage you would find traveling from utility to industrial, commercial and residential environments.

**Pulling Grips** are instrumental in the installations of transmission lines, service lines and cabling for construction and maintenance.

**Support Grips** provide holding management for indoor and outdoor permanent cable installations.

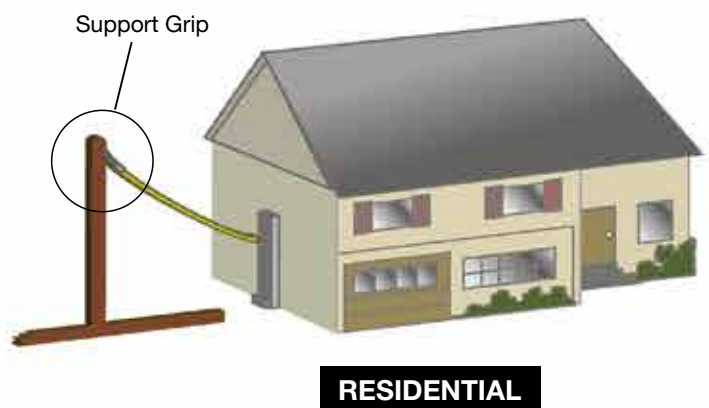
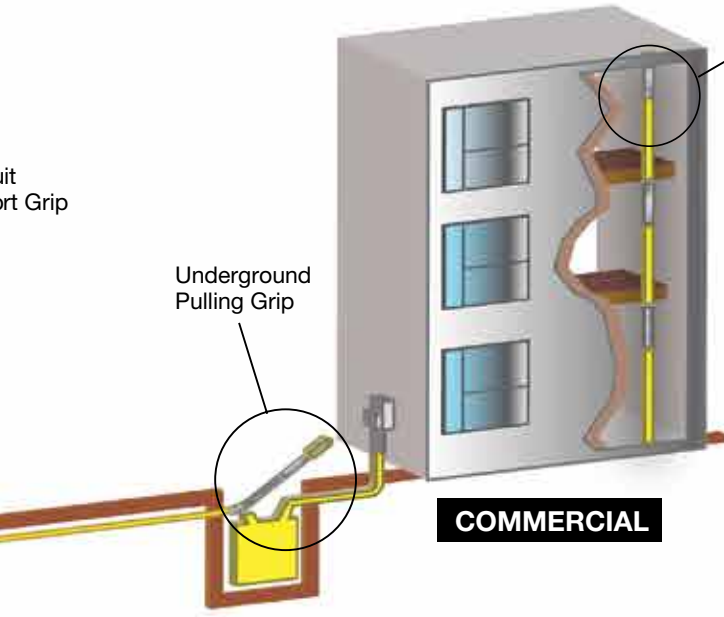
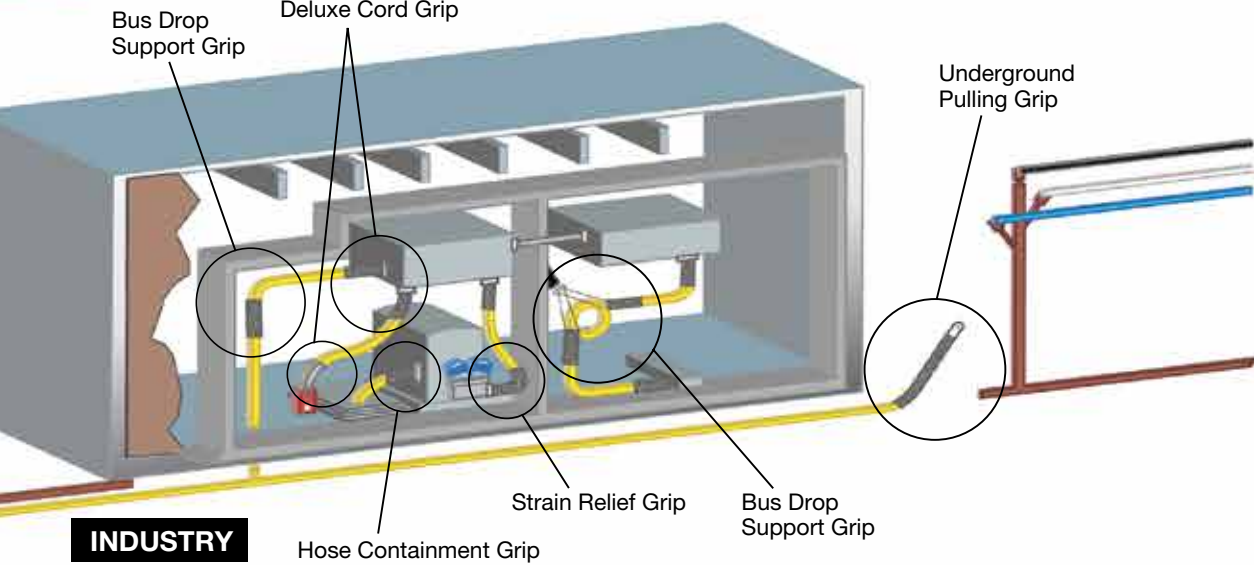
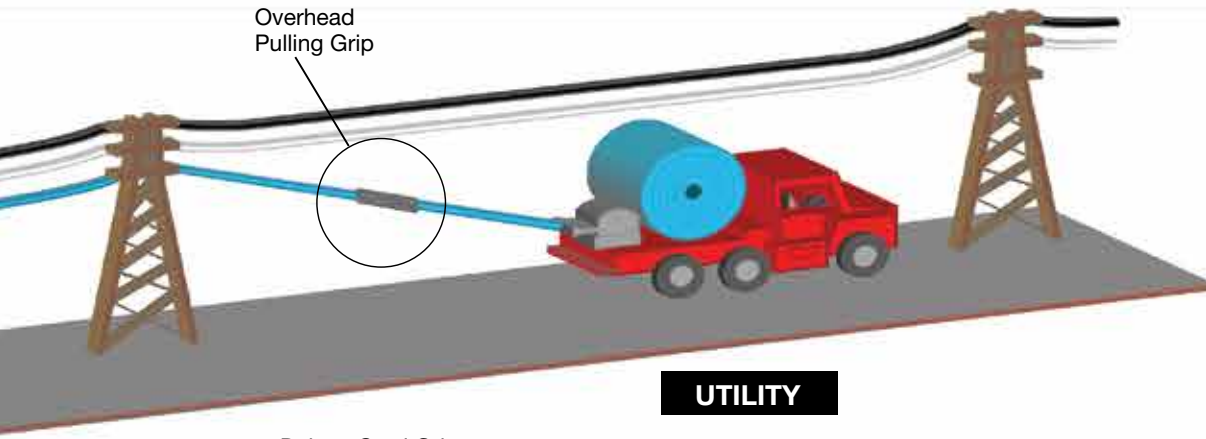
**Strain Relief Grips** are most often used to provide maximum reliability and minimum maintenance in areas where cords on machinery or equipment is impacted by motion or vibration or at risk of damage from cable pullout.

Beyond the electrical applications illustrated here, Hubbell-Kellems Mesh Grips can be used for wire management on radio and microwave communications towers, crane and hoist wire rope maintenance, elevator cable management and more.





# Kellems® Wire Management Products



# Kellems® Wire Management Products

## Features and Benefits

### Kellems® Pulling Grips

Pulling grips are reusable tools for pulling electrical cable, bare conductor or rope. They are easy and fast to install, providing the user with a smooth, slim profile that allows for easy passage through ducts and conduit.

These grips are made of the highest quality galvanized steel strand which assures the user of a long lasting grip. There is a Kellems Pulling Grip for every pulling job.

- Made of high strength galvanized steel strand
- Mesh design offers the greatest holding power for all pulling applications
- Each grip size is color coded for fast and accurate identification and selection
- Will mate with swivels



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#### Mesh Grip

- The galvanized steel mesh grip provides strength for secure pulling jobs and a slim profile with little build-up; it has flexibility to follow cable path
- The multiweave styles available add strength for big pulling jobs and provide positive gripping power



#### Eye Styles

- Heavy-duty rotating eye for underground wiring and overhead heavy-duty pulling of service lines and new construction cable
- Flexible or rotating eyes will mate easily with line stringing swivels for attachment to pulling lines; they have great strength for trouble free pulling jobs



#### Cable Protection

- Shoulder protectors contain the cable inside the grip and smooth the passage of the grip over line stringing blocks or conduit bends; they protect the leading edge of the grip from abrasion



#### Accessories

- Swivels are essential to the efficiency and safety of any high tension application
- Punch-Lok® Bands are applied over the tail of a grip to prevent the mesh from being tripped or pulled loose
- Banding tools

## DUA-PULL® Grips, Flexible Eye, Double Weave Mesh

DUA-PULL Pulling Grips are the highest strength pulling grips manufactured for overhead transmission line stringing applications. They have a dual function of working with both bare and insulated conductors and synthetic rope, not provided by any other grip. Kellems' patented two-over, two-under weave design gives exceptional strength and gripping ability by putting more steel mesh in contact with the cable or rope surfaces. **THIS IS THE ONLY PULLING GRIP RECOMMENDED FOR USE ON SYNTHETIC ROPE.**

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- Made of high strength galvanized steel strand
- Recommended for pulling bare or insulated conductor, wire rope and synthetic rope
- DUA-PULL mesh design offers the greatest holding power for all pulling applications
- Each grip size is color coded for fast and accurate identification and selection
- Will mate with swivels, see page V-16



### DUA-PULL® Grips

Diameter Range		Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Eye B Diameter Inches (cm)	Over Cable and Grip** Inches (cm)	Color Code	Catalog Number
Conductor Inches (cm)	Rope* Inches (cm)							
.19"-.37" (48-.94)	.25"-.65" (.63-1.65)	6,500 (28,912)	10" (25.40)	24" (60.96)	.220" (.56)	.200" (.51)	Black	<b>033271037</b>
.38"-.62" (.97-1.57)	.50"-.90" (1.27-2.29)	14,000 (62,272)	12" (30.48)	36" (91.44)	.375" (.95)	.280" (.71)	Dk Green	<b>033271038</b>
.63"-.87" (1.60-2.21)	.75"-.110" (1.90-2.79)	20,000 (88,960)	13" (33.02)	48" (121.92)	.437" (1.11)	.360" (.91)	Red	<b>033271039</b>
.88"-.112" (2.24-2.84)	1.00"-1.50" (2.54-3.81)	30,600 (136,109)	15" (38.10)	60" (152.40)	.500" (1.27)	.500" (1.27)	Dk Blue	<b>033271040</b>
1.13"-1.37" (2.87-3.48)	1.25"-1.70" (3.17-4.32)	46,800 (208,166)	18" (45.72)	76" (193.04)	.625" (1.59)	.625" (1.59)	Yellow	<b>033271041</b>
1.38"-1.90" (3.51-4.38)	1.50"-2.10" (3.81-5.33)	66,500 (295,792)	24" (60.96)	89" (226.06)	.750" (1.90)	.750" (1.90)	Aluminum	<b>033271042</b>

Note: E = Eye length. M = Mesh length at nominal diameter.

\*For rope, select smallest size grip which meets required work load.

\*\*Add to cable or rope diameter.

### Feed Tubes

The Kellems Feed Tube is used when assembling synthetic rope into the DUA-PULL Grip. It is required on the largest two sizes of DUA-PULL Grips. Feed Tubes are available for use on all size DUA-PULL Grips.

### Benefits

- Saves time, allowing fast, easy assembly
- Can be reused if not damaged



### DUA-PULL® Feed Tubes

For Use with DUA-PULL Grips	Rope Diameter Inches (cm)	Feed Tube Length Inches (cm)	Catalog Number
033271037	.25"-.65" (.63-1.65)	28" (71.12)	<b>091061043</b>
033271038	.50"-.90" (1.27-2.29)	40" (101.60)	<b>091061044</b>
033271039	.75"-1.10" (1.90-2.79)	52" (132.08)	<b>091061045</b>
033271040	1.00"-1.50" (2.54-3.81)	67" (170.18)	<b>091061046</b>
033271041	1.25"-1.70" (3.17-4.32)	83" (210.82)	<b>091061047</b>
033271042	1.50"-2.10" (3.81-5.33)	96" (243.84)	<b>091061048</b>

Note: 1. Do not run grips or swivels over bullwheels while under tension.

2. Two bands should be firmly attached approximately 1" and 2" (2.54cm and 5.08cm) from the grip's tail.

Banding is required to ensure maximum reliability and guard against accidental release, see page V-16.

3. Double braided rope, such as 2-in-1 type, should be back spliced for approximately 2/3 of the mesh length for best gripping results.

Grip size should be selected by diameter of back splice.



Dimensions in Inches (mm)

## Multiple Strength Style Grips

Multiple Strength Pulling Grips are designed for pulling aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables. They are made of high strength galvanized steel strand and feature a multi-weave mesh construction of single, double and triple weave for firm holding power.

### IMPORTANT

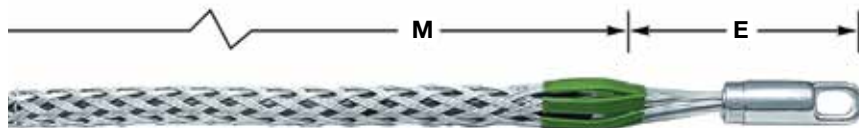
Read all breaking strength, safety and technical data relating to this product.

### Rotating Eye Feature

Multiple Strength Grips are available with a forged steel rotating eye which can be attached to a swivel. The forged eye is durable, compact and streamlined and will thread through blocks and sheaves without binding. **The rotating eye is not a swivel and will not turn while under tension;** it can turn to relieve pulling torque when tension is relaxed. If constant swivel action is required, a swivel should be used. For swivel dimensions, see page V-16. For rotating eye dimensions, see page V-9.

### Benefits

- Economical, high strength pulling tool
- Multi-weave construction provides greater strength and holding power
- Endless Weave Grip end lies flat on the cable and will not snag



### Multiple Strength Grip, Rotating Eye

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Rotating Eye Dia. Inches (cm)	Color Code	Catalog Number
.25"--.49" (.63-1.24)	6,800 (30,246)	5" (12.70)	26" (66.04)	7/8" (2.22)	Dark Green	<b>03302016</b>
.50"-.74" (1.27-1.88)	10,000 (44,480)	6" (15.24)	32" (81.28)	1" (2.54)	Brown	<b>03302018</b>
.75"-.99" (1.90-2.51)	14,400 (64,051)	6" (15.24)	41" (104.14)	1" (2.54)	Light Blue	<b>03302020</b>
1.00"-1.24" (2.54-3.15)	24,600 (109,420)	8" (20.32)	52" (132.08)	1 1/8" (3.49)	Gold	<b>03302022</b>
1.25"-1.49" (3.17-3.78)	30,600 (136,109)	8" (20.32)	56" (142.24)	1 1/8" (4.13)	Black	<b>03302024</b>
1.50"-1.74" (3.81-4.42)	30,600 (136,109)	9" (22.86)	60" (152.40)	1 1/8" (4.76)	Red	<b>03302026</b>
1.75"-2.24" (4.44-5.69)	48,000 (213,504)	10" (25.40)	70" (177.80)	1 1/8" (4.76)	Dark Blue	<b>03302028</b>
2.00"-2.49" (5.08-6.32)	48,000 (213,504)	10" (25.40)	50" (127.00)	1 1/8" (4.76)	Yellow	<b>03302066</b>
2.50"-2.99" (6.35-7.59)	48,000 (213,504)	10" (25.40)	52" (132.08)	1 1/8" (4.76)	Orange	<b>03302097</b>
3.00"-3.49" (7.62-8.86)	48,000 (213,504)	10" (25.40)	50" (127.00)	1 1/8" (4.76)	Aluminum	<b>033021030</b>
3.50"-3.99" (8.89-10.13)	48,000 (213,504)	10" (25.40)	53" (134.62)	1 1/8" (4.76)	Light Green	<b>033021031</b>

Note: E- Eye length M-Mesh length at nominal diameter.

### Flexible Eye Feature

Multiple Strength Grips are also available with a flexible, patented wire rope eye. This compact eye will mate with a swivel, and pass through blocks and sheaves without binding.



### Multiple Strength Grip, Flexible Eye

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Eye A Dia. Inches (cm)	Color Code	Catalog Number
.25"-.49" (.63-1.24)	6,800 (30,246)	9" (22.86)	26" (66.04)	1/4" (.63)	Dark Green	<b>03302044</b>
.50"-.74" (1.27-1.88)	10,000 (44,480)	9" (22.86)	32" (81.28)	5/16" (.79)	Brown	<b>03302046</b>
.75"-.99" (1.90-2.51)	14,400 (64,051)	11" (27.94)	41" (104.14)	3/8" (.95)	Light Blue	<b>03302048</b>
1.00"-1.24" (2.54-3.15)	24,600 (109,420)	12" (30.48)	52" (132.08)	1/2" (1.27)	Gold	<b>03302050</b>
1.25"-1.49" (3.17-3.78)	30,600 (136,109)	12" (30.48)	56" (142.24)	1/2" (1.27)	Black	<b>03302052</b>
1.50"-1.74" (3.81-4.42)	30,600 (136,109)	12" (30.48)	60" (152.40)	1/2" (1.27)	Red	<b>03302054</b>
1.75"-2.24" (4.44-5.69)	48,000 (213,504)	18" (45.72)	70" (177.80)	5/8" (1.59)	Dark Blue	<b>03302056</b>
2.00"-2.49" (5.08-6.32)	48,000 (213,504)	18" (45.72)	50" (127.00)	5/8" (1.59)	Yellow	<b>033021078</b>
2.50"-2.99" (6.35-7.59)	48,000 (213,504)	18" (45.72)	52" (132.08)	5/8" (1.59)	Orange	<b>033021079</b>
3.00"-3.49" (7.62-8.86)	48,000 (213,504)	18" (45.72)	50" (127.00)	5/8" (1.59)	Aluminum	<b>033021080</b>
3.50"-3.99" (8.89-10.13)	48,000 (213,504)	18" (45.72)	53" (134.62)	5/8" (1.59)	Light Green	<b>033021081</b>

Note: E- Eye length. M-Mesh length at nominal diameter.

1. Do not run grips or swivels over bullwheels while under tension.

2. Two bands should be firmly attached approximately 1" and 2" (2.54cm and 5.08cm) from the grip's tail.

Banding is required to ensure maximum reliability and guard against accidental release, see page V-16.

Dimensions in Inches (mm)

## K-Type Grips

Kellems® Rotating Eye, K-Type Pulling Grips are made of high strength galvanized steel strand. All Grips feature double weave mesh for greater strength and added mesh contact on the table, to handle longer or heavier pulling jobs. The forged eye mates easily with a swivel or shackle.

**IMPORTANT**  
Read all breaking strength, safety and technical data relating to this product.

### Rotating Eye Feature

K-Type Grips come equipped with a forged steel rotating eye which can be attached to a swivel. The forged eye is durable, compact and streamlined, and will thread through blocks and sheaves without binding. **The rotating eye is not a swivel and will not turn while under tension;** it can turn to relieve pulling torque when the tension is relaxed. If constant swivel action is required, a swivel should be used. For swivel dimensions, see page V-16. For rotating eye dimensions, see below.

### Benefits

- An economical tool for pulling cable
- Safe, rugged and dependable
- Equipped with a rotating eye for spin out of pulling torque after load release
- Easily installed and removed



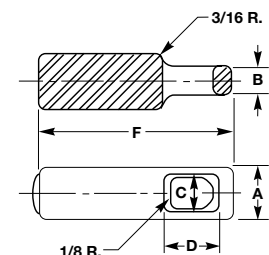
### K-Type Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Rotating Eye Dia. Inches (cm)	Catalog Number
<b>Short</b>					
.50"-.62" (1.27-1.57)	5,600 (24,909)	5" (12.70)	11" (27.94)	7/8" (2.22)	<b>03301001</b>
.63"-.74" (1.60-1.88)	6,800 (30,246)	5" (12.70)	11" (27.94)	7/8" (2.22)	<b>03301002</b>
.75"-.99" (1.90-2.51)	6,800 (30,246)	6" (15.24)	20" (50.80)	1" (2.54)	<b>03301013</b>
1.00"-1.24" (2.54-3.15)	12,800 (56,934)	7" (17.78)	20" (50.80)	1 3/8" (3.49)	<b>03301014</b>
1.25"-1.49" (3.17-3.78)	12,800 (56,934)	7" (17.78)	21" (53.34)	1 3/8" (3.49)	<b>03301016</b>
1.50"-1.99" (3.81-5.05)	16,400 (72,941)	7" (17.78)	25" (63.50)	1 3/8" (3.49)	<b>03301017</b>
2.00"-2.49" (5.08-6.32)	27,200 (120,986)	8" (20.32)	26" (66.04)	1 5/8" (4.13)	<b>03301018</b>
2.50"-2.99" (6.35-7.59)	33,000 (146,784)	10" (25.40)	28" (71.12)	1 7/8" (4.76)	<b>03301019</b>
3.00"-3.49" (7.62-8.86)	41,000 (182,368)	10" (25.40)	30" (76.20)	1 7/8" (4.76)	<b>03301020</b>
3.50"-3.99" (8.89-10.13)	48,000 (213,504)	10" (25.40)	32" (81.28)	1 7/8" (4.76)	<b>03301021</b>
4.00"-4.49" (10.16-11.40)	48,000 (213,504)	10" (25.40)	33" (83.82)	1 7/8" (4.76)	<b>033011017</b>
<b>Standard</b>					
.50"-.62" (1.27-1.57)	5,600 (24,909)	5" (12.70)	16" (40.64)	7/8" (2.22)	<b>03301011</b>
.63"-.74" (1.60-1.88)	6,800 (30,246)	5" (12.70)	16" (40.64)	7/8" (2.22)	<b>03301012</b>
.75"-.99" (1.90-2.51)	9,600 (42,701)	6" (15.24)	32" (81.28)	1" (2.54)	<b>03301024</b>
1.00"-1.49" (2.54-3.78)	16,400 (72,947)	7" (17.78)	33" (83.82)	1 3/8" (3.49)	<b>03301025</b>
1.50"-1.99" (3.81-5.05)	16,400 (72,947)	7" (17.78)	34" (86.36)	1 3/8" (3.49)	<b>03301026</b>
2.00"-2.49" (5.08-6.32)	27,200 (120,986)	9" (22.86)	36" (91.44)	1 5/8" (4.13)	<b>03301027</b>
2.50"-2.99" (6.35-7.59)	33,000 (146,784)	10" (25.40)	38" (96.52)	1 7/8" (4.76)	<b>03301028</b>
3.00"-3.49" (7.62-8.86)	41,000 (182,368)	10" (25.40)	39" (99.06)	1 7/8" (4.76)	<b>03301029</b>
3.50"-3.99" (8.89-10.13)	48,000 (213,504)	10" (25.40)	41" (104.14)	1 7/8" (4.76)	<b>03301030</b>
4.00"-4.49" (10.16-11.40)	48,000 (213,504)	10" (25.40)	42" (106.68)	1 7/8" (4.76)	<b>03301031</b>
4.50"-4.99" (11.43-12.67)	48,000 (213,504)	10" (25.40)	58" (147.32)	1 7/8" (4.76)	<b>03301039</b>
5.00"-5.99" (12.70-15.21)	40,000 (177,920)	10" (25.40)	60" (152.40)	1 7/8" (4.76)	<b>03301047</b>
6.00"-6.99" (15.24-17.75)	48,000 (213,504)	10" (25.40)	66" (167.64)	1 7/8" (4.76)	<b>03301045</b>

Note: E- Eye length. M-Mesh length at nominal diameter.  
See page V-18 for multiple cables in a single pulling grip.

### Rotating Eye Dimensions

Rotating Eye Dimensions Inches (cm)	A	B	C	D	F
7/8" (2.22)	7/8" (2.22)	9/32" (.71)	1/2" (1.27)	7/8" (2.22)	2 5/8" (6.67)
1" (2.54)	1" (2.54)	1/2" (1.27)	9/16" (1.43)	1 3/16" (2.06)	3 1/2" (8.89)
1 3/8" (3.49)	1 3/8" (3.49)	1/2" (1.27)	1 1/16" (1.75)	1" (2.54)	4 1/2" (11.43)
1 5/8" (4.13)	1 5/8" (4.13)	9/16" (1.59)	7/8" (2.22)	1 3/16" (3.02)	5 5/16" (13.49)
1 7/8" (4.76)	1 7/8" (4.76)	2 1/32" (1.67)	1" (2.54)	1 3/8" (3.49)	6 1/8" (15.56)



Dimensions in Inches (mm)



## T-Type Grips

Kellems® Flexible T-Type Pulling Grips are made of high strength galvanized steel strand. They feature double weave mesh for positive holding power in medium to heavy pulling jobs. The grip eye will easily attach to a swivel.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

## Application

T-Type Pulling Grips are used for the installation of underground power cables, communication lines and service lines into factories, construction projects and for general underground electrical construction. Available in two mesh lengths, short for medium pulls and standard for general purpose pulling.

## Benefits

- Will pull a single cable or cable bundles
- Patented flexible eye design provides flexibility to follow line of pull
- A dependable, reusable pulling tool
- Easily installed and removed
- Mates easily with a swivel, see page V-16



## T-Type Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
<b>Short</b>				
.50"-.62" (1.27-1.57)	4,500 (20,016)	8" (20.32)	21" (53.34)	<b>033041082</b>
.63"-.74" (1.60-1.88)	5,600 (24,909)	8" (20.32)	24" (60.96)	<b>033041083</b>
.75"-.99" (1.90-2.51)	6,800 (30,246)	9" (22.86)	24" (60.96)	<b>033041084</b>
1.00"-1.49" (2.54-3.78)	9,600 (42,701)	9" (22.86)	24" (60.96)	<b>033041085</b>
1.50"-1.99" (3.81-5.05)	16,400 (72,947)	11" (27.94)	24" (60.96)	<b>033041086</b>
2.00"-2.49" (5.08-6.32)	18,500 (82,288)	12" (30.48)	24" (60.96)	<b>033041087</b>
2.50"-2.99" (6.35-7.59)	24,500 (108,976)	12" (30.48)	24" (60.96)	<b>033041088</b>
3.00"-3.49" (7.62-8.86)	24,500 (108,976)	14" (35.56)	24" (60.96)	<b>033041089</b>
3.50"-3.99" (8.89-10.13)	31,000 (137,888)	14" (35.56)	26" (66.04)	<b>033041090</b>
<b>Standard</b>				
.75"-.99" (1.90-2.51)	6,800 (30,246)	9" (22.86)	36" (91.44)	<b>033041091</b>
1.00"-1.49" (2.54-3.78)	9,600 (42,701)	9" (22.86)	36" (91.44)	<b>033041092</b>
1.50"-1.99" (3.81-5.05)	16,400 (72,947)	11" (27.94)	36" (91.44)	<b>033041093</b>
2.00"-2.49" (5.08-6.32)	18,500 (82,288)	12" (30.48)	36" (91.44)	<b>033041094</b>
2.50"-2.99" (6.35-7.59)	24,500 (108,976)	12" (30.48)	36" (91.44)	<b>033041095</b>
3.00"-3.49" (7.62-8.86)	24,500 (108,976)	14" (35.56)	36" (91.44)	<b>033041096</b>
3.50"-3.99" (8.89-10.13)	31,000 (137,888)	14" (35.56)	40" (101.60)	<b>033041097</b>

Note: E- Eye length. M-Mesh length at nominal diameter.

See page V-18 for multiple cables in a single pulling grip.

## Non-Conductive Grips

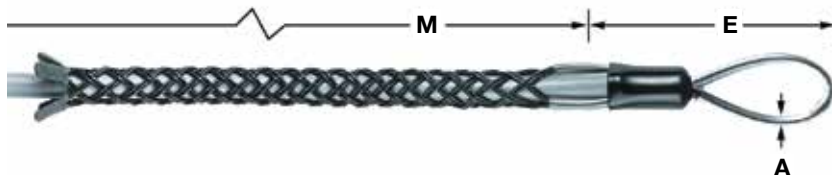
Kellems® Non-Conductive Pulling Grips, made of a high strength, non-conductive aramid fiber, are available for pulling single cable or cable bundles. Their braided double weave design adds strength and positive holding power.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- Color coded for fast on-site selection
- Extra flexibility for easy installation
- Non-metallic mesh provides for safe pulls over "hot" areas
- Pellethane jacketed aramid fiber mesh resists abrasion
- Grips are corrosion resistant



### Non-Conductive Grips, Single Eye, Double Weave, Non-Metallic

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	A Inches (cm)	Color Code	Catalog Number
.50"-.62" (1.27-1.57)	1,000 (4,448)	5.5" (13.97)	24" (60.96)	.44" (1.12)	Green	<b>03628001</b>
.63"-.74" (1.60-1.88)	2,000 (8,896)	5.5" (13.97)	26" (66.04)	.44" (1.12)	Yellow	<b>03628002</b>
.75"-.99" (1.90-2.51)	2,000 (8,896)	6.0" (15.24)	31" (78.74)	.63" (1.60)	Red	<b>03628003</b>
1.00"-1.24" (2.54-3.15)	3,000 (13,345)	6.5" (16.51)	36" (91.44)	.63" (1.60)	Blue	<b>03628004</b>
1.25"-1.49" (3.17-3.78)	3,000 (13,345)	6.7" (17.02)	41.5" (105.41)	.63" (1.60)	White	<b>03628005</b>
1.50"-1.99" (3.81-5.05)	3,000 (13,345)	8.0" (20.32)	44.0" (121.76)	.63" (1.60)	Pink	<b>03628006</b>

Note: E- Eye length. M-Mesh length at nominal diameter.

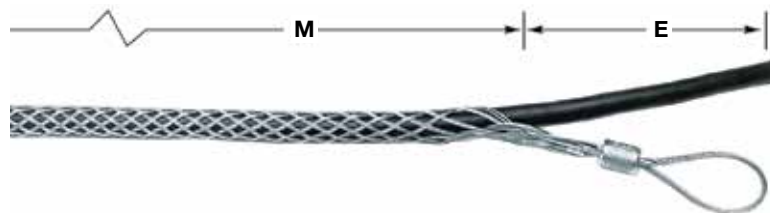
Taping is required to guard against accidental release and to insure maximum reliability. Apply vinyl plastic electrical tape starting 2" to 3" (5.08cm to 7.62cm) from the tail of the grip onto 2" to 3" (5.08cm to 7.62cm) of cable.

## Slack Pulling Grips

Slack Pulling Grips are offered in three styles made of galvanized steel. The closed type is used when the cable end is accessible. When not accessible, there are split lace and split rod closing styles. All grips feature a single offset eye for easy attachment to a pulling line.

### Benefits

- Easy attachment to pulling lines
- Galvanized steel for strength



### Slack Grip-Closed Mesh, Offset Eye, Double Weave, Galvanized Steel

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.75"-.99" (1.90-2.51)	2,600 (11,565)	7" (17.78)	12" (30.48)	<b>03308003</b>
1.00"-1.24" (2.54-3.15)	4,000 (17,792)	8" (20.32)	15" (38.10)	<b>03308004</b>
1.25"-1.49" (3.17-3.78)	5,400 (24,019)	8" (20.32)	16" (40.64)	<b>03308005</b>
1.50"-1.74" (3.81-4.42)	6,600 (29,357)	8" (20.32)	20" (50.80)	<b>03308006</b>
1.75"-1.99" (4.44-5.05)	10,000 (44,480)	10" (25.40)	18" (45.72)	<b>03308007</b>
2.00"-2.49" (5.08-6.32)	11,000 (48,928)	10" (25.40)	19" (48.26)	<b>03308008</b>
2.50"-2.99" (6.35-7.59)	11,000 (48,928)	10" (25.40)	20" (50.80)	<b>03308009</b>
3.00"-3.49" (7.62-8.86)	14,500 (64,496)	12" (30.48)	21" (53.34)	<b>03308010</b>
3.50"-3.99" (8.89-10.13)	14,500 (64,496)	12" (30.48)	22" (55.88)	<b>03308011</b>

Note: E- Eye length. M-Mesh length at nominal diameter.

See page V-18 for multiple cables in a single pulling grip.

Dimensions in Inches (mm)

## Slack Pulling Grips

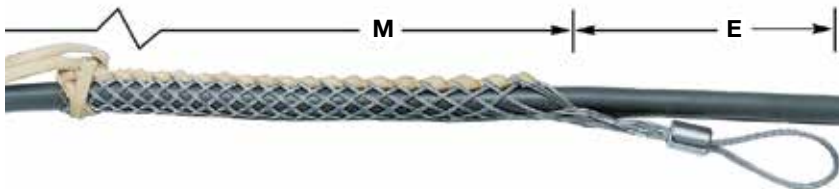
Slack Pulling Grips are offered in three styles made of galvanized steel. The closed type is used when the cable end is accessible. When not accessible, there are split lace and split rod closing styles. All grips feature a single offset eye for easy attachment to a pulling line.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- Easy attachment to pulling lines
- Reusable rawhide lace for lace closure
- Galvanized steel for strength

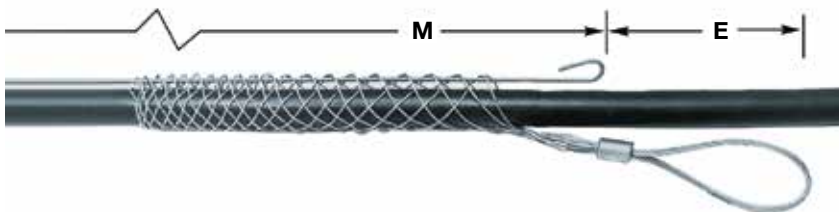


### Slack Grip-Split Mesh, Rawhide Lace Closing, Offset Eye, Double Weave, Galvanized Steel

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
<b>Standard</b>				
.75"-1.99" (1.90-2.51)	2,500 (11,120)	7" (17.78)	12" (30.48)	<b>03309003</b>
1.00"-1.24" (2.54-3.15)	3,500 (15,568)	8" (20.32)	15" (38.10)	<b>03309004</b>
1.25"-1.49" (3.17-3.78)	4,000 (17,792)	8" (20.32)	16" (40.64)	<b>03309005</b>
1.50"-1.74" (3.81-4.42)	4,000 (17,792)	9" (22.86)	17" (43.18)	<b>03309006</b>
1.75"-1.99" (4.44-5.05)	4,000 (17,792)	10" (25.40)	18" (45.72)	<b>03309007</b>
2.00"-2.49" (5.08-6.32)	4,000 (17,792)	10" (25.40)	19" (48.26)	<b>03309008</b>
2.50"-2.99" (6.35-7.59)	4,000 (17,792)	10" (25.40)	20" (50.80)	<b>03309009</b>
<b>Long</b>				
1.50"-1.99" (3.81-5.05)	4,000 (17,792)	9" (22.86)	25" (63.50)	<b>03309015</b>
2.00"-2.49" (5.08-6.32)	4,000 (17,792)	10" (25.40)	26" (66.04)	<b>03309016</b>
2.50"-2.99" (6.35-7.59)	4,000 (17,792)	10" (25.40)	29" (73.66)	<b>03309017</b>
3.00"-3.49" (7.62-8.86)	4,000 (17,792)	12" (30.48)	32" (81.28)	<b>03309018</b>
3.50"-3.99" (8.89-10.13)	4,000 (17,792)	12" (30.48)	35" (88.90)	<b>03309019</b>

### Benefits

- Easy attachment to pulling lines
- Galvanized steel for strength



### Slack Grip-Split Mesh, Rod Closing, Offset Eye, Single Weave, Galvanized Steel

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.50"-1.61" (1.27-1.55)	1,500 (6,672)	7" (17.78)	6" (15.24)	<b>03310001</b>
.62"-1.74" (1.57-1.88)	1,800 (8,006)	7" (17.78)	8" (20.32)	<b>03310002</b>
.75"-1.99" (1.90-2.51)	2,200 (9,786)	7" (17.78)	10" (25.40)	<b>03310003</b>
1.00"-1.24" (2.54-3.15)	3,400 (15,123)	8" (20.32)	12" (30.48)	<b>03310004</b>
1.25"-1.49" (3.17-3.78)	4,500 (20,016)	8" (20.32)	14" (35.56)	<b>03310005</b>
1.50"-1.74" (3.81-4.42)	5,800 (25,798)	9" (22.86)	15" (38.10)	<b>03310006</b>
1.75"-1.99" (4.44-5.05)	7,600 (33,805)	10" (25.40)	16" (40.64)	<b>03310007</b>
2.00"-2.49" (5.08-6.32)	9,000 (40,032)	10" (25.40)	19" (48.26)	<b>03310008</b>
2.50"-2.99" (6.35-7.59)	11,000 (48,928)	10" (25.40)	20" (50.80)	<b>03310009</b>
3.00"-3.49" (7.62-8.86)	12,000 (53,376)	12" (30.48)	21" (53.34)	<b>03310010</b>
3.50"-3.99" (8.89-10.13)	12,000 (53,376)	12" (30.48)	24" (60.96)	<b>03310011</b>

Note: E- Eye length. M-Mesh length at nominal diameter.  
 1. Replacement rawhide lace. Catalog number 20920002.  
 2. See page V-35 for lace and rod closing instructions.  
 See page V-18 for multiple cables in a single pulling grip.

Dimensions in Inches (mm)

## Light Duty Grips

Light Duty Grips are made of galvanized steel in a single weave construction. They feature a flexible eye for easy attachment to a pulling line.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- Perfect tools for light pulling jobs
- Installs easily on cable
- Strong galvanized steel construction



### Light Duty Grips

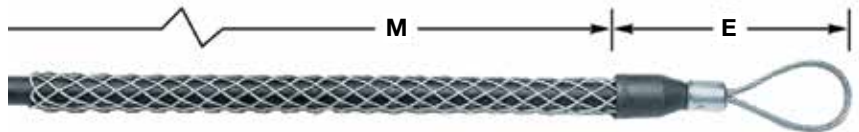
Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
<b>Short</b>				
.50"-.62" (1.27-1.57)	2,800 (12,454)	5" (12.70)	11" (27.94)	<b>03303001</b>
.63"-.74" (1.60-1.88)	2,800 (12,454)	5" (12.70)	11" (27.94)	<b>03303002</b>
.75"-.99" (1.90-2.51)	4,000 (17,792)	6" (15.24)	12" (30.48)	<b>03303003</b>
1.00"-1.24" (2.54-3.15)	5,300 (23,574)	7" (17.78)	13" (33.02)	<b>03303004</b>
1.25"-1.49" (3.17-3.78)	5,300 (23,574)	7" (17.78)	14" (35.56)	<b>03303005</b>
1.50"-1.74" (3.81-4.42)	6,800 (30,246)	8" (20.32)	15" (38.10)	<b>03303006</b>
1.75"-1.99" (4.44-5.05)	8,500 (37,808)	9" (22.86)	17" (43.18)	<b>03303007</b>
2.00"-2.49" (5.08-6.32)	8,500 (37,808)	9" (22.86)	18" (45.72)	<b>03303008</b>
<b>Standard</b>				
.50"-.62" (1.27-1.57)	2,800 (12,454)	5" (12.70)	16" (40.64)	<b>03303010</b>
.63"-.74" (1.60-1.88)	2,800 (12,454)	5" (12.70)	16" (40.64)	<b>03303011</b>
.75"-.99" (1.90-2.51)	4,000 (17,792)	6" (15.24)	20" (50.80)	<b>03303012</b>
1.00"-1.24" (2.54-3.15)	6,800 (30,246)	7" (17.78)	20" (50.80)	<b>03303013</b>
1.25"-1.49" (3.17-3.78)	6,800 (30,246)	7" (17.78)	21" (53.34)	<b>03303015</b>
1.50"-1.99" (3.81-5.05)	6,800 (30,246)	8" (20.32)	23" (58.42)	<b>03303016</b>
2.00"-2.49" (5.08-6.32)	8,500 (37,808)	9" (22.86)	25" (63.50)	<b>03303017</b>
2.50"-2.99" (6.35-7.59)	10,600 (47,149)	9" (22.86)	27" (68.58)	<b>03303018</b>
3.00"-3.49" (7.62-8.86)	14,700 (65,386)	10" (25.40)	30" (76.20)	<b>03303019</b>
3.50"-3.99" (8.89-10.13)	14,700 (65,386)	10" (25.40)	32" (81.28)	<b>03303029</b>

## Junior Pulling Grips

Junior Pulling Grips feature a strong galvanized steel, single weave mesh. A flexible eye easily attaches to a pulling line, snake or fish tape.

### Benefits

- Installs easily over building wire
- Strong secure grip
- Reusable
- Pulls single cable or cable bundles



### Junior Pulling Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Model	Catalog Number
.19"-.24" (.48-.61)	400 (1,779)	3¼" (8.25)	4¼" (10.79)	J19	<b>03305011*</b>
.25"-.37" (.63-.94)	450 (2,002)	3¼" (8.25)	4¼" (10.79)	J25	<b>03305001</b>
.38"-.49" (.97-1.24)	900 (4,003)	3¾" (9.52)	7" (17.78)	J37	<b>03305002</b>
.50"-.62" (1.27-1.57)	1,300 (5,782)	4¼" (10.79)	8½" (21.59)	J50	<b>03305003</b>
.63"-.74" (1.60-1.88)	1,950 (8,674)	5" (12.70)	10" (25.40)	J62	<b>03305004</b>
.75"-.99" (1.90-2.51)	2,800 (12,454)	5¾" (14.60)	10" (25.40)	J75	<b>03305005</b>
1.00"-1.24" (2.54-3.15)	3,900 (17,347)	6½" (16.51)	11½" (29.21)	J100	<b>03305006</b>
Junior Grip Kit contains 6 grips, one of each size above, except 03305011.					<b>033051114</b>

Note: E- Eye length. M-Mesh length at nominal diameter.

\*Not included in Junior Grip Kit, 033051114.

See page V-18 for multiple cables in a single pulling grip.

Dimensions in Inches (mm)

## Wire Rope Grips

Wire Rope Grips are made of high strength galvanized steel strand in a construction of triple, double and single weave for superior gripping ability. They are available with or without a rotating barrel which will help eliminate twist in the old rope from being transferred to the new rope.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- High strength for secure pulling
- Easy installation
- Flexible to pass through sheaves and blocks

### Application

Wire Rope Grips are used for changing wire rope on oil derricks, large cranes, overhead cranes and drag lines. It provides a quick, safe, inexpensive temporary splice. By installing the used wire rope in one end and the new rope in the other, the new wire rope can be pulled in as the old one is pulled out.



### Regular Wire Rope Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	Approx. Strength of Grip Feet (m)	Catalog Number
9/16" - 5/8" (1.43-1.59)	7,500 (33,360)	5.75 (1.75)	<b>03316001</b>
3/4" - 7/8" (1.90-2.22)	12,500 (55,600)	6.75 (1.90)	<b>03316002</b>
1" - 1 1/8" (2.54-2.86)	16,000 (71,168)	7.00 (2.13)	<b>03316003</b>
1 1/4" - 1 3/8" (3.17-3.49)	20,000 (88,960)	8.00 (2.44)	<b>03316004</b>
1 3/8" - 1 1/2" (3.49-3.81)	20,000 (88,960)	8.00 (2.44)	<b>03316006</b>



### Rotating Wire Rope Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	Approx. Strength of Grip Feet (m)	Barrel Dimensions Length. x O.D. In. (cm)	Catalog Number
7/16" - 1/2" (1.11-1.27)	5,000 (22,240)	5.33 (1.63)	3.00" (7.62) x .87" (2.21)	<b>03317001</b>
9/16" - 5/8" (1.43-1.59)	7,500 (33,360)	5.83 (1.78)	4.25" (10.79) x 1.00" (2.54)	<b>03317002</b>
3/4" - 7/8" (1.90-2.22)	12,500 (55,600)	6.50 (1.98)	4.25" (10.79) x 1.00" (2.54)	<b>03317003</b>
1" - 1 1/8" (2.54-2.86)	16,000 (71,168)	8.67 (2.64)	5.50" (13.97) x 1.37" (3.48)	<b>03317004</b>
1 1/4" - 1 3/8" (3.17-3.49)	20,000 (88,960)	9.00 (2.74)	5.50" (13.97) x 1.37" (3.48)	<b>03317005</b>
1 1/2" - 1 3/4" (3.81-4.44)	20,000 (88,960)	11.00 (3.35)	5.50" (13.97) x 1.37" (3.48)	<b>03317006</b>

Note: 1. During installation each end of the grip should be banded and taped down securely over the rope to insure smooth passage through sheaves and to guard against accidental release. See page V-16 for end bands.  
2. The rotating barrel is not a swivel and will not turn while under tension. It can turn to relieve pulling torque when tension is relaxed.



## Cable Splicing Grips

Splicing Grips are made of galvanized steel in double weave mesh construction. They are available in various lengths and sizes to suit most applications.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- Easily installed or removed
- Galvanized steel construction for strength
- Flexible to follow cable path

### Application

Splicing Grips are used as a temporary splice for rope, cable or wire rope. They can also be used as cable reinforcement and can act as a shield to protect cables and hoses from abrasion.



### Double Weave Splicing Grips

Cable Diameter Range Inches (cm)	.37"-.49" (.94-1.24)	.50"-.61" (1.27-1.55)	.62"-.74" (1.57-1.88)	.75"-.99" (1.90-2.51)	1.00"-1.49" (2.54-3.78)
Approx. Breaking Strength Lbs. (N)	3,500 (15,568)	3,500 (15,568)	4,400 (19,571)	7,500 (33,360)	10,000 (44,480)
Mesh Length Inches (cm)	Catalog Number				
18" (45.72)	<b>013041330</b>	<b>01304064</b>	<b>01304009</b>	—	—
24" (60.96)	—	<b>01304011</b>	<b>01304013</b>	<b>01304010</b>	<b>01304015</b>
36" (91.44)	—	—	<b>013041234</b>	<b>01304054</b>	<b>01304055</b>
48" (121.92)	—	—	—	<b>01304017</b>	<b>01304029</b>
72" (182.88)	—	—	—	<b>01304037</b>	<b>013041333</b>

### Junior Splicing Grips, Single Weave

Junior Splicing Grips are made of galvanized steel and are designed for use in very light duty and small splicing jobs.

### Benefits

- Easily installed or removed
- Galvanized steel construction for strength
- Flexible to follow cable path



### Junior Tube

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	Length @ Nom Diameter Inches (cm)	Catalog Number
.18"-.24" (.46-.61)	400 (1,779)	7" (17.78)	<b>01301008</b>
.25"-.36" (.63-.91)	400 (1,779)	8" (20.32)	<b>01301013</b>

Note: 1. During installation each end of the grip should be banded and taped down securely over the rope to insure smooth passage through sheaves and to guard against accidental release. See page V-16 for end bands.

Dimensions in Inches (mm)

## Punch-Lok® Bands

Punch-Lok Bands are applied over the tail of a grip to prevent the mesh from being tripped or pulled loose. Also, they assure full gripping action by locking the mesh of the tail in tight contact with the cable or rope.



When the tail of a grip is the leading end, the bands are particularly important to prevent accidental release caused by tripping on obstructions. A conductor-to-conductor (double-socking) pulling operation is a good example: where two grips connect two conductors to form a temporary splice. Bands should be applied to the ends of the grips as illustrated herein. It is also common practice to tape over the banded tail area to assure smooth passage through the sheaves. The conductor should be installed in the grip up to the elbows of the aluminum shoulders in order to assure full and complete gripping action as illustrated above.



### Punch-Lok® Bands

Grip Banding Range Inches (cm)	Band Width Inches (cm)	Band Inside Diameter Inches (cm)	Model	Catalog Number
¼"-1½" (.63-2.86)	¾" (.95)	1¾" (3.49)	0-311	<b>20320050</b>
1½"-1¾" (2.86-4.13)	¾" (.95)	2" (5.08)	0-316	<b>20320051</b>
1¾"-2¼" (4.13-5.71)	¾" (1.59)	2½" (6.35)	0-10	<b>20320052</b>
2¼"-3½" (5.71-8.89)	¾" (1.59)	4" (10.16)	0-16	<b>20320053</b>
3½"-5" (8.89-12.70)	¾" (1.59)	6" (15.24)	0-24	<b>20320054</b>

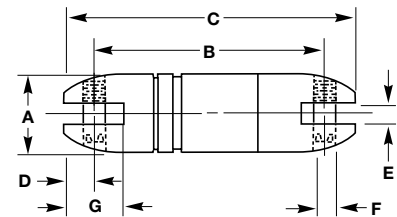
### Accessories

Punch-Lok Tools	Catalog Number
P-1000 for use with ¾" width Banding tool.	<b>20320048</b>
P-38 for use with ¾" and ¾" width Banding tool for tight spaces.	<b>20320047</b>

Note: In all cases two Punch-Lok Bands should be double wrapped approximately one inch to two inches (2.54cm to 5.08cm) from the grip's tail. Banding is required to ensure maximum reliability and guard against accidental release.

## Stainless Steel Swivels

Swivels are essential to the efficiency and safety of any high tension application. They are particularly important where continuous pulls develop higher and higher torque levels. Torque is intensified by the pull-resistance of the cable itself and the resistance of the high tension controlling equipment regulating line sag. Ball bearing swivels release torque and prevent it from reaching dangerous levels that can damage the cable and obstruct the lines.



### Stainless Steel Swivels



Maximum Safe Working Load Lbs. (N)	Dimensions in Inches (cm)							Model	Catalog Number
	A	B	C	D	E	F	G		
2,250 (10,000)	7/8" (2.22)	2½" (6.35)	3¾" (8.57)	7/16" (1.11)	3/8" (0.95)	5/16" (0.79)	3¼" (2.46)	A-13L	<b>20308001A</b>
5,000 (22,240)	1¼" (3.17)	3¼" (9.37)	4¾" (12.06)	1¾" (1.35)	1¾" (1.35)	13/32" (1.03)	1¾" (3.25)	BB-13L	<b>20308002A</b>
9,000 (40,030)	1½" (3.81)	4¼" (10.79)	5¾" (14.29)	1¼" (1.75)	1¾" (1.51)	½" (1.27)	1¾" (3.97)	B-13L	<b>20308003A</b>
10,000 (44,480)	1¾" (4.13)	4½" (11.43)	6" (15.24)	¾" (1.90)	1¼" (1.75)	5/8" (1.59)	1¾" (4.36)	C-13L	<b>20308004A</b>
30,000 (133,440)	2¾" (6.03)	7¾" (19.37)	10" (25.40)	1¾" (3.02)	1¾" (2.62)	7/8" (2.22)	2¾" (7.06)	D-13L	<b>20308005A</b>

Punch-Lok® is a registered trademark of Punch-Lok Inc.

# Kellems® Wire Management Products

Kellems Pulling Grips are reusable tools for pulling electrical cable, bare conductor or rope. They are easy and fast to install, providing the user with a smooth, slim profile that allows for easy passage through ducts and conduit. Kellems Pulling Grips are made of the highest quality galvanized steel strand which assures the user of a long lasting grip. There is a Kellems Pulling Grip for every pulling job.

**WARNING:** It is very important to read and understand all safety information before proceeding. Failure to do so may result in property damage, personal injury or death.

Grips are to be installed and utilized by a qualified technician in accordance with all applicable national and local safety and electrical codes. Consult a licensed project safety professional, if necessary.

Ensure that the correct grip is selected for your specific needs. Grips should only be used for their intended purpose and not for other applications.

Banding the tail end of the grip is required to prevent unintended release of the grip's hold from the cable and to achieve maximum gripping strength

The strength of a Kellems grips is based on laboratory testing and does not evaluate variable conditions such as cable type, gripping surfaces, cable movement or impact loads. Suitability for the application must be determined by the user.

Thoroughly examine the condition of the grip prior to each use. Grips that are worn, bent, corroded, or show other signs of damage, such as frayed or broken wires, should never be used and must be replaced.

Do not modify the grip in any way.

Ensure that the recommended work load of the grip is suitable for the application. Never use a grip beyond its safe working load, which is the approximate breaking strength divided by the factor of safety. The recommended factor of safety is five (5) for pulling grips and ten (10) for support grips.

Pulling hardware should only be attached to the eye of the grip.

A swivel is recommended for attachment to the grip's eye in applications where torque release is necessary. Torque can build up in high tension pulling applications.

Do not run grips and swivels around sheaves or bull wheels while under tension.

For synthetic rope, use Kellems Dua-Pull Grips only.

## Select The Correct Pulling Grip

Each Kellems Grip is designed to work on a specific range of cable diameters.

**Step 1** Refer to the chart below to determine the style of grip best suited for your application.

**Step 2** Determine your cable outside diameter.

**Step 3** Find the grip size that encompasses your cable diameter.

**Step 4** Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to insure that the grip will be strong enough. Refer to page V-34 for safety and working load factors.

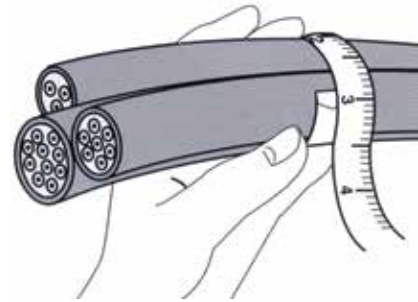
## Pulling Grip Selection Chart

Grip Style	Application	Page Number
DUA-PULL®, flexible eye	Extra high strength overhead transmission line stringing for bare or insulated conductor and synthetic rope.	V-7
Multiple strength, flexible eye	Normal overhead transmission and distribution line stringing for bare or insulated conductor.	V-8
Multiple strength, rotating eye	Normal overhead transmission and distribution line stringing for bare or insulated conductor.	V-8
K-type grip, rotating eye	Underground power cables and communication lines. Service lines into factories.	V-9
T-type grip, flexible eye	Underground power cables and communication lines. Service lines into factories.	V-10
Non-conductive, flexible eye	Pull insulated distribution cable into place.	V-11
Slack pulling, closed mesh	Remove underground cable. For pulling slack in final placement of new cable when end of cable is available.	V-11
Slack pulling, split mesh,	Remove underground cable. For pulling slack in final placement of new cable rawhide lace closing when end of cable is not available.	V-12
Slack pulling, split mesh,	Remove underground cable. For pulling slack in final placement of new cable rod closing when end of cable is not available, with rod closing for quick installation.	V-12
Light duty, flexible eye	Light pulling, underground electrical construction. Industrial plant wiring and rewiring jobs.	V-13
Junior, flexible eye	Connect bundled insulated building wire to a pulling tape. Pull wire through conduit.	V-13
Regular and rotating wire rope	Restraining wire rope in cranes and oil rigs.	V-14
Splicing	Temporary splice for cable or wire rope.	V-15
Pulling Grip Accessories	Tools, bands, swivels.	V-16
Fiber Optic Cable Pulling Grips	Pull fiber optic cable into place overhead, underground or through duct and conduit.	V-39 to V-43

## Multiple Cable Selection Charts for Cables and Wires of Unequal Diameters

### How to choose the correct grip size:

1. Find the Grip Circumference Range by measuring the circumference of the bundle of different diameter cables to be gripped (see illustration).
2. Divide the bundle circumference by 3.14 to determine the diameter.
3. Choose a grip offering a range of cable diameters the same as the cable diameter.



### For Pulling Grips\*

**CAUTION:** When a grip is used on multiple cables, the tail end of the grip should be banded after positioning on the cables.

### For Cables of Equal Diameters

Under "Number of Cables in One Grip", find the diameter of your single cable in vertical column. Read the grip diameter range to the right.

If your diameter is the maximum of the range shown, go to the next larger size for Split Grips, stay with the same size for Closed Grips.

**Example:** Three cables, each with .89" (2.26cm) diameter, for a Closed Grip select the 1.50"-1.74" (3.81cm-4.42cm) range, for a Split Grip select the 1.75"-1.99" (4.44cm-5.05cm) range.

### Number of Cables in One Grip

2	3	4	5	6 and 7	8	9	Grip Dia. Range Inches (cm)
.30-.38 (.76-.97)	.25-.31 (.63-.79)	.22-.27 (.56-.69)	.19-.24 (.48-.60)	.17-.22 (.43-.56)	.15-.19 (.38-.48)	.14-.18 (.36-.46)	.50-.61 (1.27-1.55)
.38-.44 (.97-1.12)	.31-.36 (.79-.91)	.27-.31 (.69-.79)	.24-.29 (.61-.74)	.22-.26 (.56-.66)	.19-.23 (.48-.58)	.18-.21 (.46-.53)	.62-.74 (1.57-1.88)
.44-.59 (1.12-1.50)	.36-.49 (.91-1.24)	.31-.42 (.79-1.07)	.29-.38 (.74-.97)	.26-.34 (.66-.86)	.23-.31 (.58-.79)	.21-.28 (.53-.71)	.75-.99 (1.90-2.51)
.59-.75 (1.50-1.90)	.49-.63 (1.24-1.60)	.42-.54 (1.07-1.37)	.38-.48 (.97-1.22)	.34-.43 (.86-1.09)	.31-.39 (.79-.99)	.28-.35 (.71-.89)	1.00-1.24 (2.54-3.15)
.75-.90 (1.90-2.29)	.63-.76 (1.60-1.93)	.54-.65 (1.37-1.65)	.48-.58 (1.22-1.47)	.43-.52 (1.09-1.32)	.39-.46 (.99-1.17)	.35-.42 (.89-1.07)	1.25-1.49 (3.17-3.78)
.90-1.07 (2.29-2.72)	.76-.89 (1.93-2.26)	.65-.77 (1.65-1.96)	.58-.67 (1.47-1.70)	.52-.60 (1.32-1.52)	.46-.54 (1.17-1.37)	.42-.49 (1.07-1.24)	1.50-1.74 (3.81-4.42)
1.07-1.22 (2.72-3.10)	.89-1.02 (2.26-2.59)	.77-.88 (1.96-2.24)	.67-.77 (1.70-1.96)	.60-.69 (1.52-1.75)	.54-.62 (1.37-1.57)	.49-.56 (1.24-1.42)	1.75-1.99 (4.44-5.05)
1.22-1.53 (3.10-3.89)	1.02-1.28 (2.59-3.25)	.88-1.10 (2.24-2.79)	.77-.96 (1.96-2.44)	.69-.86 (1.75-2.18)	.62-.77 (1.57-1.96)	.56-.71 (1.42-1.80)	2.00-2.49 (5.08-6.32)
1.53-1.83 (3.89-4.65)	1.28-1.53 (3.25-3.89)	1.10-1.32 (2.79-3.35)	.96-1.16 (2.44-2.95)	.86-1.03 (2.18-2.62)	.77-.93 (1.96-2.36)	.71-.85 (1.80-2.16)	2.50-2.99 (6.35-7.59)
1.83-2.14 (4.65-5.44)	1.53-1.79 (3.89-4.55)	1.32-1.54 (3.35-3.91)	1.16-1.35 (2.95-3.43)	1.03-1.20 (2.62-3.05)	.93-1.08 (2.36-2.74)	.85-.99 (2.16-2.51)	3.00-3.49 (7.62-8.86)
2.14-2.44 (5.44-6.20)	1.79-2.05 (4.55-5.21)	1.54-1.76 (3.91-4.47)	1.35-1.54 (3.43-3.91)	1.20-1.37 (3.05-3.48)	1.08-1.24 (2.74-3.15)	.99-1.13 (2.51-2.87)	3.50-3.99 (8.89-10.13)
2.44-2.75 (6.20-6.98)	2.05-2.30 (5.21-5.84)	1.76-1.98 (4.47-5.03)	1.54-1.74 (3.91-4.42)	1.37-1.55 (3.48-3.94)	1.24-1.39 (3.15-3.53)	1.13-1.27 (2.87-3.23)	4.00-4.49 (10.16-11.40)
2.75-3.06 (6.98-7.77)	2.30-2.56 (5.84-6.50)	1.98-2.20 (5.03-5.59)	1.74-1.93 (4.42-4.90)	1.55-1.72 (3.94-4.37)	1.39-1.55 (3.53-3.94)	1.27-1.41 (3.23-3.58)	4.50-4.99 (11.43-12.67)

Note: \*This chart is not to be used for Conduit Riser Grips. Refer to the chart for Conduit Riser multiple cable section. It is always recommended that, when multiple cables are installed in a pulling grip, the tail end be banded and tightly taped after installation on the cable bundle. See page V-16 for end bands.

# Kellems® Wire Management Products

## Features and Benefits

### Kellems® Support Grips

They are used to hold the weight of electrical cable as it hangs in a vertical, sloping or horizontal position. Electrical cable must be supported, or its dead weight can cause excessive strain or pullout at the connections resulting in power failure. Support grips also absorb additional strain from flexure, vibration, expansion and contraction.

Kellems support grips listed in this catalog are made of high grade, non-magnetic tin-coated bronze strand. Stainless steel grips, made of alloy 302–304 series stainless are for severe service or unusual environmental conditions. For exceptional immunity to rust and corrosion with superior strength and flexibility for heavy duty support application in harsh environments available upon request; contact the factory.

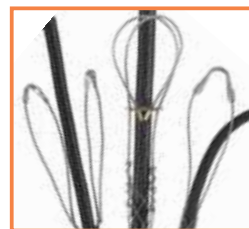


02206010



#### Mesh Grip

- The positive action mesh grip is designed for light duty up to heavy duty; closed grips fit over the cable end, split grips wrap around the cable mid-span
- The endless weave provides easy installation onto cable and can be easily repositioned



#### Eye Styles

- Four eye styles available: single (shown), double, universal and offset
- Solid eye assemblies provide eye reinforcement at support hardware
- Each Kellems grip is designed to work on a specific range of cable diameters



#### Cable Identification

- Identification tag shows: catalog number, diameter range, agency approval and bar code
- The strand equalizer positions wires for equal loading throughout the entire grip length



#### Strand Equalizer

- Positions wires for equal loading throughout the entire grip length



## Standard Duty Support Grips

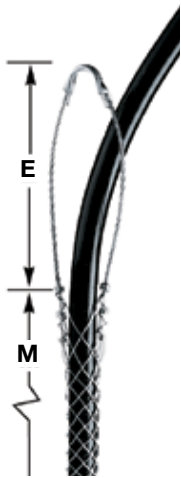
Single Eye, Single Weave, Tin-Coated Bronze and Stainless Steel

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Single Eye, Closed Mesh

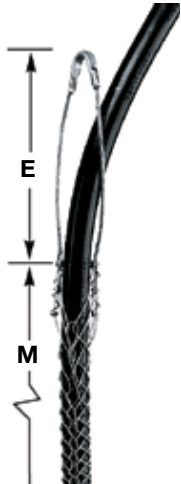
For permanent support when cable end is available to be installed through grip.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"- .62" (1.27-1.57)	530 (2,357)	1,370 (6,094)	7" (17.78)	10" (25.40)	<b>02201013</b>	<b>02401013</b>
.63"- .74" (1.60-1.88)	790 (3,514)	2,060 (9,163)	8" (20.32)	10" (25.40)	<b>02201014</b>	<b>02401014</b>
.75"- .99" (1.90-2.51)	1,020 (4,537)	2,060 (9,163)	8" (20.32)	13" (33.02)	<b>02201015</b>	<b>02401015</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,678 (11,912)	9" (22.86)	14" (35.56)	<b>02201017</b>	<b>02401017</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,490 (19,972)	10" (25.40)	15" (38.10)	<b>02201018</b>	<b>02401018</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	4,492 (19,981)	12" (30.48)	17" (43.18)	<b>02201019</b>	<b>02401019</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	5,000 (22,241)	14" (35.56)	19" (48.26)	<b>02201020</b>	<b>02401020</b>
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	8,940 (39,767)	16" (40.64)	21" (53.34)	<b>02201021</b>	<b>02401021</b>
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	8,947 (39,798)	18" (45.72)	23" (58.42)	<b>02201022</b>	<b>02401022</b>
3.00"-3.49" (7.62-8.86)	4,900 (21,795)	13,420 (59,695)	21" (53.34)	25" (63.50)	<b>02201023</b>	<b>02401023</b>
3.50"-3.99" (8.89-10.13)	4,900 (21,795)	—	24" (60.96)	27" (68.58)	<b>02201024</b>	—

### Single Eye, Split Mesh, Lace Closing

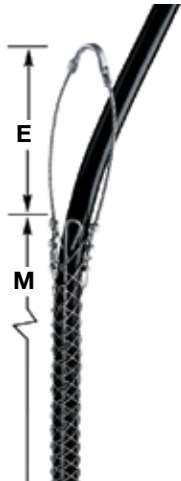
For permanent support when cable end is not available.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"- .62" (1.27-1.57)	530 (2,357)	1,370 (6,094)	7" (17.78)	10" (25.40)	<b>02202013</b>	<b>02402013</b>
.63"- .74" (1.60-1.88)	790 (3,514)	2,066 (9,190)	8" (20.32)	10" (25.40)	<b>02202014</b>	<b>02402014</b>
.75"- .99" (1.90-2.51)	1,020 (4,537)	2,060 (9,163)	8" (20.32)	13" (33.02)	<b>02202015</b>	<b>02402015</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,670 (11,876)	9" (22.86)	14" (35.56)	<b>02202017</b>	<b>02402017</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,490 (19,972)	10" (25.40)	15" (38.10)	<b>02202018</b>	<b>02402018</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	4,490 (19,972)	12" (30.48)	17" (43.18)	<b>02202019</b>	<b>02402019</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	4,375 (19,461)	14" (35.56)	19" (48.26)	<b>02202020</b>	<b>02402020</b>
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	8,947 (39,798)	16" (40.64)	21" (53.34)	<b>02202021</b>	<b>02402021</b>
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	8,940 (39,767)	18" (45.72)	23" (58.42)	<b>02202022</b>	<b>02402022</b>
3.00"-3.49" (7.62-8.86)	4,900 (21,795)	13,420 (59,695)	21" (53.34)	25" (63.50)	<b>02202023</b>	<b>02402023</b>
3.50"-3.99" (8.89-10.13)	4,900 (21,795)	13,420 (59,695)	24" (60.96)	27" (68.58)	<b>02202024</b>	<b>02402024</b>

### Single Eye, Split Mesh, Rod Closing

For support when cable end is not available.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"- .62" (1.27-1.57)	790 (3,514)	1,050 (4,670)	7" (17.78)	8.5" (21.59)	<b>02203013</b>	<b>02403013</b>
.63"- .74" (1.60-1.88)	790 (3,514)	2,050 (9,119)	8" (20.32)	8.5" (21.59)	<b>02203014</b>	<b>02403014</b>
.75"- .99" (1.90-2.51)	1,020 (4,537)	2,050 (9,119)	8" (20.32)	10.5" (26.67)	<b>02203015</b>	<b>02403015</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,650 (11,788)	9" (22.86)	12.5" (31.75)	<b>02203017</b>	<b>02403017</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,500 (20,017)	10" (25.40)	14.5" (36.83)	<b>02203018</b>	<b>02403018</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	4,500 (20,017)	12" (30.48)	15.5" (39.37)	<b>02203019</b>	<b>02403019</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	6,000 (26,689)	14" (35.56)	16.5" (41.91)	<b>02203020</b>	<b>02403020</b>
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	8,950 (39,812)	16" (40.64)	19.5" (49.53)	<b>02203021</b>	<b>02403021</b>
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	7,750 (34,474)	18" (45.72)	21.5" (54.61)	<b>02203022</b>	<b>02403022</b>
3.00"-3.49" (7.62-8.86)	5,750 (25,576)	8,500 (37,810)	21" (53.34)	23.5" (59.69)	<b>02203023</b>	<b>02403023</b>
3.50"-3.99" (8.89-10.13)	5,750 (25,576)	—	24" (60.96)	25.5" (64.77)	<b>02203024</b>	—

Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Standard Duty Support Grips

Double Eye, Single Weave, Tin-Coated Bronze and Stainless Steel

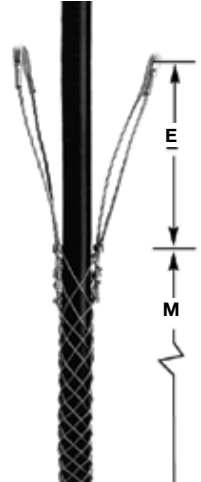
### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Double Eye, Closed Mesh

For permanent support when cable end is available to be installed through grip.

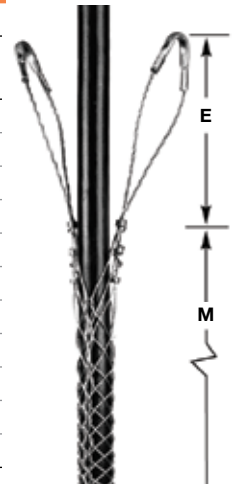
Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"-.62" (1.27-1.57)	530 (2,357)	1,370 (6,094)	4" (10.16)	10" (25.40)	<b>02201001</b>	<b>02401001</b>
.63"-.74" (1.60-1.88)	790 (3,514)	2,060 (9,163)	4" (10.16)	10" (25.40)	<b>02201002</b>	<b>02401002</b>
.75"-.99" (1.90-2.51)	1,020 (4,537)	2,060 (9,163)	4" (10.16)	13" (33.02)	<b>02201003</b>	<b>02401003</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,670 (11,877)	5" (12.70)	14" (35.56)	<b>02201005</b>	<b>02401005</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,490 (19,972)	5" (12.70)	15" (38.10)	<b>02201006</b>	<b>02401006</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	4,490 (19,972)	5" (12.70)	17" (43.18)	<b>02201007</b>	<b>02401007</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	5,000 (22,241)	6" (15.24)	19" (48.26)	<b>02201008</b>	<b>02401008</b>
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	8,940 (39,767)	6" (15.24)	21" (53.34)	<b>02201009</b>	<b>02401009</b>
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	8,940 (39,767)	6" (15.24)	23" (58.42)	<b>02201010</b>	<b>02401010</b>
3.00"-3.49" (7.62-8.86)	4,900 (21,795)	12,000 (53,379)	8" (20.32)	25" (63.50)	<b>02201011</b>	<b>02401011</b>
3.50"-3.99" (8.89-10.13)	4,900 (21,795)	12,000 (53,379)	8" (20.32)	27" (68.58)	<b>02201012</b>	<b>02401012</b>



### Double Eye, Split Mesh, Lace Closing

For permanent support when cable end is not available.

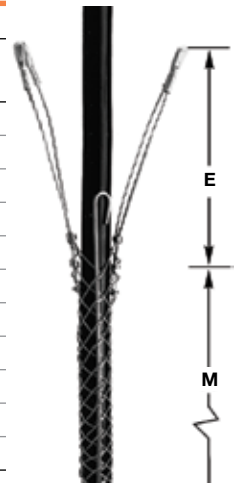
Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"-.62" (1.27-1.57)	530 (2,357)	—	4" (10.16)	10" (25.40)	<b>02202001</b>	—
.63"-.74" (1.60-1.88)	790 (3,514)	2,066 (9,190)	4" (10.16)	10" (25.40)	<b>02202002</b>	<b>02402002</b>
.75"-.99" (1.90-2.51)	1,020 (4,537)	2,060 (9,163)	4" (10.16)	13" (33.02)	<b>02202003</b>	<b>02402003</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,678 (11,912)	5" (12.70)	14" (35.56)	<b>02202005</b>	<b>02402005</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,490 (19,972)	5" (12.70)	15" (38.10)	<b>02202006</b>	<b>02402006</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	3,750 (16,681)	5" (12.70)	17" (43.18)	<b>02202007</b>	<b>02402007</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	5,000 (22,241)	6" (15.24)	19" (48.26)	<b>02202008</b>	<b>02402008</b>
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	8,940 (39,767)	6" (15.24)	21" (53.34)	<b>02202009</b>	<b>02402009</b>
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	—	6" (15.24)	23" (58.42)	<b>02202010</b>	—
3.00"-3.49" (7.62-8.86)	4,900 (21,795)	—	8" (20.32)	25" (63.50)	<b>02202011</b>	—
3.50"-3.99" (8.89-10.13)	4,900 (21,795)	—	8" (20.32)	27" (68.58)	<b>02202012</b>	—



### Double Eye, Split Mesh, Rod Closing

For support when cable end is not available.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"-.62" (1.27-1.57)	790 (3,514)	—	4" (10.16)	6.5"	<b>02203001</b>	—
.63"-.74" (1.60-1.88)	790 (3,514)	2,050 (9,119)	4" (10.16)	8.5" (21.59)	<b>02203002</b>	<b>02403002</b>
.75"-.99" (1.90-2.51)	1,020 (4,537)	2,050 (9,119)	4" (10.16)	10.5" (26.67)	<b>02203003</b>	<b>02403003</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,650 (11,788)	5" (12.70)	12.5" (31.75)	<b>02203005</b>	<b>02403005</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	3,750 (16,681)	5" (12.70)	14.5" (36.83)	<b>02203006</b>	<b>02403006</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	3,750 (16,681)	5" (12.70)	15.5" (39.37)	<b>02203007</b>	<b>02403007</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	5,000 (22,241)	6" (15.24)	16.5" (41.91)	<b>02203008</b>	<b>02403008</b>
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	8,950 (39,812)	6" (15.24)	19.5" (49.53)	<b>02203009</b>	<b>02403009</b>
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	8,950 (39,812)	6" (15.24)	21.5" (54.61)	<b>02203010</b>	<b>02403010</b>
3.00"-3.49" (7.62-8.86)	5,750 (25,576)	11,150 (49,598)	8" (20.32)	23.5" (59.69)	<b>02203011</b>	<b>02403011</b>
3.50"-3.99" (8.89-10.13)	5,750 (25,576)	—	8" (20.32)	25.5" (64.77)	<b>02203012</b>	—



Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Standard Duty Support Grips

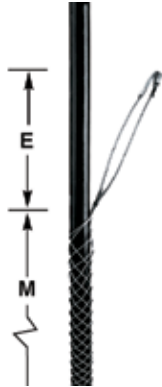
Offset Eye, Single Weave, Tin-Coated Bronze and Stainless Steel

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Offset Eye, Closed Mesh

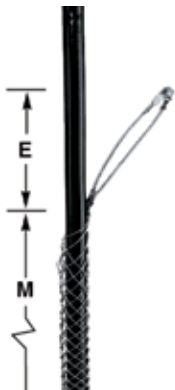
For permanent support when cable end is available to be installed through grip.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"- .62" (1.27-1.57)	530 (2,357)	1,370 (6,094)	4" (10.16)	10" (25.40)	<b>02201037</b>	<b>02401037</b>
.63"- .74" (1.60-1.88)	750 (3,336)	1,950 (8,674)	4" (10.16)	10" (25.40)	<b>02201038</b>	<b>02401038</b>
.75"- .99" (1.90-2.51)	950 (4,226)	2,060 (9,163)	4" (10.16)	13" (33.02)	<b>02201039</b>	<b>02401039</b>
1.00"-1.24" (2.54-3.15)	1,500 (6,672)	2,678 (11,912)	5" (12.70)	14" (35.56)	<b>02201041</b>	<b>02401041</b>
1.25"-1.49" (3.17-3.78)	1,500 (6,672)	4,490 (19,972)	5" (12.70)	15" (38.10)	<b>02201042</b>	<b>02401042</b>
1.50"-1.74" (3.81-4.42)	1,500 (6,672)	3,700 (16,458)	5" (12.70)	17" (43.18)	<b>02201043</b>	<b>02401043</b>
1.75"-1.99" (4.44-5.05)	2,000 (8,896)	4,375 (19,461)	6" (15.24)	19" (48.26)	<b>02201044</b>	<b>02401044</b>
2.00"-2.49" (5.08-6.32)	3,100 (13,789)	5,500 (24,465)	9" (22.86)	21" (53.34)	<b>02201045</b>	<b>02401045</b>
2.50"-2.99" (6.35-7.59)	3,100 (13,789)	—	9" (22.86)	23" (58.42)	<b>02201046</b>	—
3.00"-3.49" (7.62-8.86)	3,800 (16,902)	—	11" (27.94)	25" (63.50)	<b>02201047</b>	—
3.50"-3.99" (8.89-10.13)	3,250 (14,480)	—	11" (27.94)	27" (68.58)	<b>02201048</b>	—

### Offset Eye, Split Mesh, Lace Closing

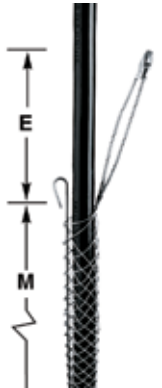
For permanent support when cable end is not available.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"- .62" (1.27-1.57)	500 (2,224)	1,370 (6,094)	4" (10.16)	10" (25.40)	<b>02202037</b>	—
.63"- .74" (1.60-1.88)	750 (3,336)	1,952 (8,683)	4" (10.16)	10" (25.40)	<b>02202038</b>	<b>02402038</b>
.75"- .99" (1.90-2.51)	950 (4,226)	2,060 (9,163)	4" (10.16)	13" (33.02)	<b>02202039</b>	—
1.00"-1.24" (2.54-3.15)	1,500 (6,672)	2,670 (11,877)	5" (12.70)	14" (35.56)	<b>02202041</b>	—
1.25"-1.49" (3.17-3.78)	1,500 (6,672)	4,490 (19,972)	5" (12.70)	15" (38.10)	<b>02202042</b>	<b>02402042</b>
1.50"-1.74" (3.81-4.42)	1,500 (6,672)	4,490 (19,972)	5" (12.70)	17" (43.18)	<b>02202043</b>	—
1.75"-1.99" (4.44-5.05)	1,800 (8,006)	4,375 (19,461)	6" (15.24)	19" (48.26)	<b>02202044</b>	<b>02402044</b>
2.00"-2.49" (5.08-6.32)	2,150 (9,563)	5,500 (24,465)	9" (22.86)	21" (53.34)	<b>02202045</b>	<b>02402045</b>
2.50"-2.99" (6.35-7.59)	2,150 (9,563)	5,500 (24,465)	9" (22.86)	23" (58.42)	<b>02202046</b>	<b>02402046</b>
3.00"-3.49" (7.62-8.86)	3,250 (14,480)	10,190 (45,327)	11" (27.94)	25" (63.50)	<b>02202047</b>	<b>02402047</b>
3.50"-3.99" (8.89-10.13)	3,250 (14,480)	—	11" (27.94)	27" (68.58)	<b>02202048</b>	—

### Offset Eye, Split Mesh, Rod Closing

For support when cable end is not available.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"- .62" (1.27-1.57)	500 (2,224)	1,000 (4,448)	4" (10.16)	7" (17.78)	<b>02203037</b>	<b>02403037</b>
.63"- .74" (1.60-1.88)	750 (3,336)	1,950 (8,674)	4" (10.16)	9" (22.86)	<b>02203038</b>	<b>02403038</b>
.75"- .99" (1.90-2.51)	950 (4,226)	1,950 (8,674)	4" (10.16)	10" (25.40)	<b>02203039</b>	<b>02403039</b>
1.00"-1.24" (2.54-3.15)	1,500 (6,672)	2,500 (11,121)	5" (12.70)	12" (30.48)	<b>02203041</b>	<b>02403041</b>
1.25"-1.49" (3.17-3.78)	1,500 (6,672)	4,200 (18,683)	5" (12.70)	14" (35.56)	<b>02203042</b>	<b>02403042</b>
1.50"-1.74" (3.81-4.42)	1,500 (6,672)	4,500 (20,017)	5" (12.70)	15" (38.10)	<b>02203043</b>	<b>02403043</b>
1.75"-1.99" (4.44-5.05)	2,000 (8,896)	4,375 (19,461)	6" (15.24)	16" (40.64)	<b>02203044</b>	<b>02403044</b>
2.00"-2.49" (5.08-6.32)	3,100 (13,789)	8,350 (37,143)	9" (22.86)	19" (48.26)	<b>02203045</b>	<b>02403045</b>
2.50"-2.99" (6.35-7.59)	3,100 (13,789)	—	9" (22.86)	20" (50.80)	<b>02203046</b>	—
3.00"-3.49" (7.62-8.86)	4,300 (19,126)	8,400 (37,365)	11" (27.94)	21" (53.34)	<b>02203047</b>	<b>02403047</b>
3.50"-3.99" (8.89-10.13)	4,900 (21,795)	—	11" (27.94)	21" (53.34)	<b>02203048</b>	—

Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Standard Duty Support Grips

Universal Eye, Single Weave, Tin-Coated Bronze and Stainless Steel

**IMPORTANT**  
Read all breaking strength, safety and technical data relating to this product.

### Universal Eye, Closed Mesh

For permanent support when cable end is available to be installed through grip.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"-.62" (1.27-1.57)	530 (2,357)	1,370 (6,094)	18" (45.72)	10" (25.40)	<b>02201051</b>	<b>02401051</b>
.63"-.74" (1.60-1.88)	790 (3,514)	2,060 (9,163)	18" (45.72)	10" (25.40)	<b>02201052</b>	<b>02401052</b>
.75"-.99" (1.90-2.51)	1,020 (4,537)	2,066 (9,190)	18" (45.72)	13" (33.02)	<b>02201053</b>	<b>02401053</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	—	18" (45.72)	14" (35.56)	<b>02201050</b>	—
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,490 (19,972)	18" (45.72)	15" (38.10)	<b>02201054</b>	<b>02401054</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	4,490 (19,972)	18" (45.72)	17" (43.18)	<b>02201055</b>	<b>02401055</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	—	18" (45.72)	19" (48.26)	<b>02201056</b>	—
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	—	18" (45.72)	21" (53.34)	<b>02201057</b>	—
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	—	18" (45.72)	23" (58.42)	<b>02201058</b>	—



### Universal Eye, Split Mesh, Lace Closing

For permanent support when cable end is not available.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"-.62" (1.27-1.57)	530 (2,357)	—	18" (45.72)	10" (25.40)	<b>02202050</b>	—
.63"-.74" (1.60-1.88)	790 (3,514)	2,060 (9,163)	18" (45.72)	10" (25.40)	<b>02202051</b>	<b>02402051</b>
.75"-.99" (1.90-2.51)	1,020 (4,537)	—	18" (45.72)	13" (33.02)	<b>02202052</b>	—
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	—	18" (45.72)	14" (35.56)	<b>02202054</b>	—
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	—	18" (45.72)	15" (38.10)	<b>02202055</b>	—
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	—	18" (45.72)	17" (43.18)	<b>02202056</b>	—
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	—	18" (45.72)	19" (48.26)	<b>02202057</b>	—
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	—	18" (45.72)	21" (53.34)	<b>02202058</b>	—
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	—	18" (45.72)	23" (58.42)	<b>02202059</b>	—
3.50"-3.99" (8.89-10.13)	4,900 (21,795)	—	18" (45.72)	27" (68.58)	<b>02202061</b>	—



### Universal Eye, Split Mesh, Rod Closing

For support when cable end is not available.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.50"-.62" (1.27-1.57)	790 (3,514)	—	18" (45.72)	8.5" (21.59)	<b>02203064</b>	—
.63"-.74" (1.60-1.88)	790 (3,514)	2,050 (9,119)	18" (45.72)	8.5" (21.59)	<b>02203065</b>	<b>02403065</b>
.75"-.99" (1.90-2.51)	1,020 (4,537)	2,050 (9,119)	18" (45.72)	10.5" (26.67)	<b>02203066</b>	<b>02403066</b>
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	2,650 (11,788)	18" (45.72)	12.5" (31.75)	<b>02203068</b>	<b>02403068</b>
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	4,500 (20,017)	18" (45.72)	14.5" (36.83)	<b>02203069</b>	<b>02403069</b>
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	4,500 (20,017)	18" (45.72)	15.5" (39.37)	<b>02203070</b>	<b>02403070</b>
1.75"-1.99" (4.44-5.05)	2,150 (9,563)	—	18" (45.72)	16.5" (41.91)	<b>02203071</b>	—
2.00"-2.49" (5.08-6.32)	3,260 (14,500)	—	18" (45.72)	19.5" (49.53)	<b>02203072</b>	—
2.50"-2.99" (6.35-7.59)	3,260 (14,500)	—	18" (45.72)	21.5" (54.61)	<b>02203073</b>	—
3.00"-3.49" (7.62-8.86)	5,750 (25,576)	—	18" (45.72)	23.5" (59.69)	<b>02203074</b>	—



Note: E-Eye length. M-Mesh length at nominal diameter.

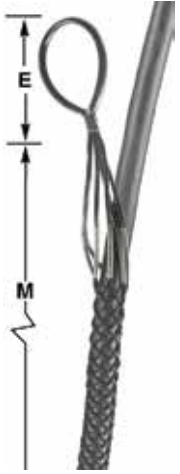
Dimensions in Inches (mm)

## Non-Metallic Support Grips

Single Eye, Double Weave, Non-Metallic Aramid Fiber

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Kellems® Non-Metallic Support Grips

Kellems® Non-Metallic Support Grips, made of a high strength double weave aramid fiber, are available for supporting cable in corrosive environments.

#### Non-Metallic Support Grips, Single Eye, Closed Mesh

For permanent support when cable end is available to be installed through grip.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Color Code	Catalog Number
.50"-.62" (1.27-1.57)	1,000 (4,448)	6.0" (15.24)	22" (55.88)	Green	<b>02601001</b>
.63"-.74" (1.60-1.88)	2,000 (8,896)	6.0" (15.24)	24" (60.96)	Yellow	<b>02601002</b>
.75"-.99" (1.90-2.51)	2,000 (8,896)	6.0" (15.24)	28.5" (72.39)	Red	<b>02601003</b>
1.00"-1.24" (2.54-3.15)	3,000 (13,345)	6.0" (15.24)	31" (78.74)	Blue	<b>02601004</b>
1.25"-1.49" (3.17-3.78)	3,000 (13,345)	6.0" (15.24)	36.5" (92.71)	White	<b>02601005</b>
1.50"-1.99" (3.81-5.05)	3,000 (13,345)	6.0" (15.24)	40" (101.60)	Pink	<b>02601006</b>

Note: Specified for corrosive applications.

## Heavy Duty Support Grips

Single Eye, Double Weave, Tin-Coated Bronze and Stainless Steel



### Heavy Duty, Single Eye, Closed Mesh

For heavy duty permanent support when cable end is available to be installed through grip.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.75"-.99" (1.90-2.51)	2,820 (12,543)	4,200 (18,683)	10" (25.40)	25" (63.50)	<b>02206010</b>	<b>02406010</b>
1.00"-1.24" (2.54-3.15)	4,280 (19,037)	7,300 (32,472)	12" (30.48)	28" (71.12)	<b>02206011</b>	<b>02406011</b>
1.25"-1.49" (3.17-3.78)	4,280 (19,037)	7,300 (32,472)	12" (30.48)	30" (76.20)	<b>02206012</b>	<b>02406012</b>
1.50"-1.99" (3.81-5.05)	4,280 (19,037)	11,150 (49,598)	12" (30.48)	34" (86.36)	<b>02206013</b>	<b>02406013</b>



### Single Eye, Split Mesh, Lace Closing

For permanent support when cable end is not available to be installed through grip.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.75"-.99" (1.90-2.51)	2,820 (12,543)	4,200 (18,683)	10" (25.40)	25" (63.50)	<b>02207010</b>	<b>02407010</b>
1.00"-1.24" (2.54-3.15)	4,280 (19,037)	7,300 (32,472)	12" (30.48)	28" (71.12)	<b>02207011</b>	<b>02407011</b>
1.25"-1.49" (3.17-3.78)	4,280 (19,037)	7,300 (32,472)	12" (30.48)	30" (76.20)	<b>02207012</b>	<b>02407012</b>
1.50"-1.99" (3.81-5.05)	4,280 (19,037)	11,150 (49,598)	12" (30.48)	34" (86.36)	<b>02207013</b>	<b>02407013</b>

Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)



## Heavy Duty Support Grips

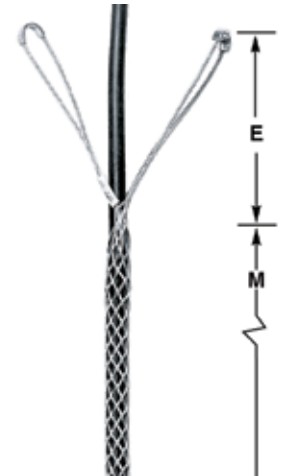
Double Eye, Double Weave, Tin-Coated Bronze and Stainless Steel

**IMPORTANT**  
Read all breaking strength, safety and technical data relating to this product.

### Double Eye, Closed Mesh

For permanent support when cable end is available to be installed through grip.

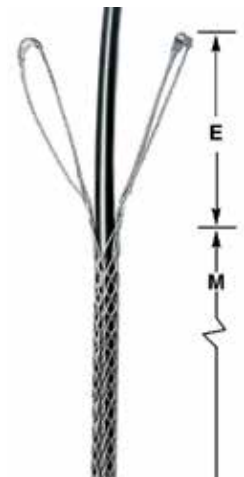
Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.75"-1.24" (1.90-2.51)	2,820 (12,543)	4,250 (18,905)	10" (25.40)	25" (63.50)	<b>02206001</b>	<b>02406001</b>
1.00"-1.24" (2.54-3.15)	4,280 (19,037)	7,300 (32,472)	10" (25.40)	28" (71.12)	<b>02206002</b>	<b>02406002</b>
1.25"-1.49" (3.17-3.78)	4,280 (19,037)	7,300 (32,472)	10" (25.40)	30" (76.20)	<b>02206003</b>	<b>02406003</b>
1.50"-1.99" (3.81-5.05)	4,280 (19,037)	11,100 (49,375)	10" (25.40)	34" (86.36)	<b>02206004</b>	<b>02406004</b>
2.00"-2.49" (5.08-6.32)	8,050 (35,806)	20,100 (89,409)	12" (30.48)	36" (91.44)	<b>02206005</b>	<b>02406005</b>
2.50"-2.99" (6.35-7.59)	8,050 (35,806)	20,100 (89,409)	12" (30.48)	38" (96.52)	<b>02206006</b>	<b>02406006</b>
3.00"-3.49" (7.62-8.86)	10,060 (44,747)	25,200 (112,095)	12" (30.48)	40" (101.60)	<b>02206007</b>	<b>02406007</b>
3.50"-3.99" (8.89-10.13)	12,070 (53,687)	—	12" (30.48)	44" (111.76)	<b>02206008</b>	—
4.00"-4.49" (10.16-11.40)	12,070 (53,687)	—	12" (30.48)	46" (116.84)	<b>02206009</b>	—
4.50"-4.99" (11.43-12.67)	12,070 (53,687)	—	12" (30.48)	68" (172.72)	<b>02208009</b>	—



### Double Eye, Split Mesh, Lace Closing

For support when cable end is not available.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.75"-1.24" (1.90-2.51)	2,820 (12,543)	4,250 (18,905)	10" (25.40)	25" (63.50)	<b>02207001</b>	<b>02407001</b>
1.00"-1.24" (2.54-3.15)	4,280 (19,037)	7,300 (32,472)	10" (25.40)	28" (71.12)	<b>02207002</b>	<b>02407002</b>
1.25"-1.49" (3.17-3.78)	4,280 (19,037)	7,300 (32,472)	10" (25.40)	30" (76.20)	<b>02207003</b>	<b>02407003</b>
1.50"-1.99" (3.81-5.05)	4,280 (19,037)	11,150 (49,598)	10" (25.40)	34" (86.36)	<b>02207004</b>	<b>02407004</b>
2.00"-2.49" (5.08-6.32)	8,050 (35,806)	20,150 (89,632)	12" (30.48)	36" (91.44)	<b>02207005</b>	<b>02407005</b>
2.50"-2.99" (6.35-7.59)	8,050 (35,806)	20,150 (89,632)	12" (30.48)	38" (96.52)	<b>02207006</b>	<b>02407006</b>
3.00"-3.49" (7.62-8.86)	10,060 (44,747)	25,200 (112,095)	12" (30.48)	40" (101.60)	<b>02207007</b>	<b>02407007</b>
3.50"-3.99" (8.89-10.13)	12,070 (53,687)	30,200 (134,336)	12" (30.48)	44" (111.76)	<b>02207008</b>	<b>02407008</b>
4.00"-4.49" (10.16-11.40)	12,070 (53,687)	30,200 (134,336)	12" (30.48)	46" (116.84)	<b>02207009</b>	<b>02407009</b>
4.50"-4.99" (11.43-12.67)	12,070 (53,687)	—	12" (30.48)	68" (172.72)	<b>02209009</b>	—



Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Service Drop Grips

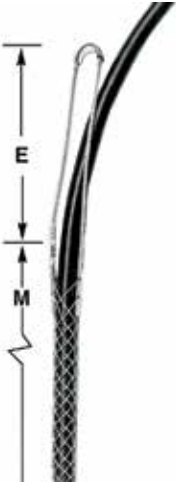
Single Eye, Tin-Coated Bronze and Stainless Steel

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Light Duty, Single Eye, Closed Mesh, Single Weave

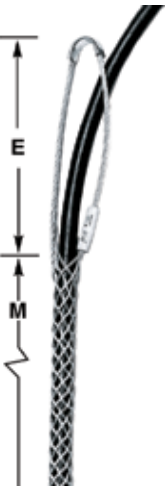
For permanent support when cable end is available to be installed.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.23"-.31" (.58-.79)	290 (1,290)	700 (3,114)	3" (7.62)	3.75" (9.52)	<b>02216001</b>	<b>02416001</b>
.29"-.37" (.74-.94)	290 (1,290)	700 (3,114)	5" (12.70)	4.25" (10.79)	<b>02216002</b>	<b>02416002</b>
.35"-.44" (.89-1.12)	500 (2,224)	850 (3,781)	5.5" (13.97)	4.75" (12.06)	<b>02216003</b>	<b>02416003</b>
.41"-.50" (1.04-1.27)	500 (2,224)	850 (3,781)	5.5" (13.97)	5" (12.70)	<b>02216004</b>	<b>02416004</b>
.46"-.56" (1.17-1.42)	660 (2,936)	850 (3,781)	6" (15.24)	5.25" (13.33)	<b>02216005</b>	<b>02416005</b>
.52"-.62" (1.32-1.57)	790 (3,514)	1,050 (4,670)	7" (17.78)	6.25" (15.87)	<b>02216006</b>	<b>02416006</b>
.58"-.68" (1.47-1.73)	790 (3,514)	1,050 (4,670)	7" (17.78)	6" (15.24)	<b>02216007</b>	<b>02416007</b>
.64"-.75" (1.63-1.90)	790 (3,514)	1,050 (4,670)	7" (17.78)	6.75" (17.14)	<b>02216008</b>	<b>02416008</b>
.70"-.81" (1.78-2.06)	790 (3,514)	2,050 (9,119)	7" (17.78)	7.25" (18.41)	<b>02216009</b>	<b>02416009</b>
.75"-.87" (1.90-2.21)	1,020 (4,537)	2,050 (9,119)	8" (20.32)	8" (20.32)	<b>02216010</b>	<b>02416010</b>
.81"-.94" (2.06-2.39)	1,020 (4,537)	2,050 (9,119)	8" (20.32)	8.25" (20.95)	<b>02216011</b>	<b>02416011</b>
.87"-1.00" (2.21-2.54)	1,020 (4,537)	—	8" (20.32)	8.75" (22.22)	<b>02216012</b>	—
.94"-1.06" (2.39-2.69)	1,020 (4,537)	2,050 (9,119)	9" (22.86)	9" (22.86)	<b>02216013</b>	<b>02416013</b>
1.00"-1.18" (2.54-3.00)	1,020 (4,537)	2,050 (9,119)	9" (22.86)	9.5" (24.13)	<b>02216014</b>	<b>02416014</b>
1.06"-1.25" (2.69-3.17)	1,020 (4,537)	2,050 (9,119)	9" (22.86)	9.5" (24.13)	<b>02216015</b>	<b>02416015</b>

### Heavy Duty, Single Eye, Closed Mesh, Multi-Weave

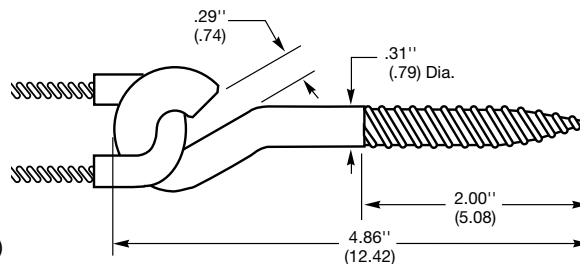
For permanent support when cable end is available to be installed.



Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)		E Inches (cm)	M Inches (cm)	Tin-Coated Bronze	Stainless Steel
	Tin-Coated Bronze	Stainless Steel				
.23"-.31" (.58-.79)	500 (2,224)	1,400 (6,228)	5" (12.70)	4.5" (11.43)	<b>02217001</b>	<b>02417001</b>
.29"-.37" (.74-.94)	500 (2,224)	1,150 (5,115)	5" (12.70)	5.5" (13.97)	<b>02217002</b>	<b>02417002</b>
.35"-.44" (.89-1.12)	870 (3,870)	1,700 (7,562)	6" (15.24)	6.5" (16.51)	<b>02217003</b>	<b>02417003</b>
.41"-.50" (1.04-1.27)	870 (3,870)	1,700 (7,562)	6" (15.24)	7.5" (19.05)	<b>02217004</b>	<b>02417004</b>
.46"-.56" (1.17-1.42)	1,050 (4,670)	2,100 (9,341)	6" (15.24)	8" (20.32)	<b>02217005</b>	<b>02417005</b>
.52"-.62" (1.32-1.57)	1,050 (4,670)	2,100 (9,341)	7" (17.78)	8.5" (21.59)	<b>02217006</b>	<b>02417006</b>
.58"-.68" (1.47-1.73)	1,050 (4,670)	2,100 (9,341)	7" (17.78)	9.5" (24.13)	<b>02217007</b>	<b>02417007</b>
.64"-.75" (1.63-1.90)	1,390 (6,183)	4,161 (18,509)	7" (17.78)	9.5" (24.13)	<b>02217008</b>	<b>02417008</b>
.70"-.81" (1.78-2.06)	1,390 (6,183)	4,100 (18,238)	8" (20.32)	10.5" (26.67)	<b>02217009</b>	<b>02417009</b>
.75"-.87" (1.90-2.21)	1,390 (6,183)	—	8" (20.32)	10.5" (26.67)	<b>02217010</b>	—
.81"-.94" (2.06-2.39)	1,390 (6,183)	—	8" (20.32)	10.5" (26.67)	<b>02217011</b>	—
.87"-1.00" (2.21-2.54)	1,790 (7,962)	5,350 (23,798)	8" (20.32)	11.5" (29.21)	<b>02217012</b>	<b>02417012</b>
.94"-1.06" (2.39-2.69)	1,790 (7,962)	5,300 (23,576)	9" (22.86)	12.5" (31.75)	<b>02217013</b>	<b>02417013</b>
1.00"-1.18" (2.54-3.00)	1,790 (7,962)	5,300 (23,576)	9" (22.86)	13.5" (34.29)	<b>02217014</b>	<b>02417014</b>
1.06"-1.25" (2.69-3.17)	1,790 (7,962)	5,350 (23,798)	9" (22.86)	14.5" (36.83)	<b>02217015</b>	<b>02417015</b>

Note: E-Eye length. M-Mesh length at nominal diameter.

Screw Hook  
Catalog Number **20303001**  
Yield Strength 900 lbs (4003 N)



Dimensions in Inches (mm)

## Service Drop Grips

Universal Eye, Tin-Coated Bronze

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Light Duty, Universal Eye, Closed Mesh, Single Weave

For permanent support when cable end is available to be installed.

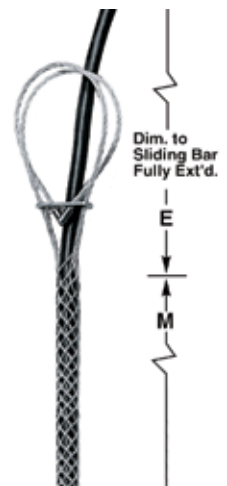
Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.23"-.31" (.58-.79)	290 (1,290)	9" (22.86)	3.75" (9.52)	<b>02216016</b>
.29"-.37" (.74-.94)	290 (1,290)	10" (25.40)	4.25" (10.79)	<b>02216017</b>
.35"-.44" (.89-1.12)	500 (2,224)	10" (25.40)	4.75" (12.06)	<b>02216018</b>
.41"-.50" (1.04-1.27)	500 (2,224)	11" (27.94)	5" (12.70)	<b>02216019</b>
.46"-.56" (1.17-1.42)	660 (2,936)	12" (30.48)	5.25" (13.33)	<b>02216020</b>
.52"-.62" (1.32-1.57)	790 (3,514)	13" (33.02)	6.25" (15.87)	<b>02216021</b>
.58"-.68" (1.47-1.73)	790 (3,514)	13" (33.02)	6.5" (16.51)	<b>02216022</b>
.64"-.75" (1.63-1.90)	790 (3,514)	13" (33.02)	6.75" (17.14)	<b>02216023</b>
.70"-.81" (1.78-2.06)	790 (3,514)	13" (33.02)	7.25" (18.41)	<b>02216024</b>
.75"-.87" (1.90-2.21)	1,020 (4,537)	14" (35.56)	8" (20.32)	<b>02216025</b>
.81"-.94" (2.06-2.39)	1,020 (4,537)	14" (35.56)	8.25" (20.95)	<b>02216026</b>
.87"-1.00" (2.21-2.54)	1,020 (4,537)	14" (35.56)	8.75" (22.22)	<b>02216027</b>
.94"-1.06" (2.39-2.69)	1,020 (4,537)	15" (38.10)	9" (22.86)	<b>02216028</b>
1.00"-1.18" (2.54-3.00)	1,020 (4,537)	15" (38.10)	9.5" (24.13)	<b>02216029</b>
1.06"-1.25" (2.69-3.17)	1,020 (4,537)	15" (38.10)	9.5" (24.13)	<b>02216030</b>



### Heavy Duty, Universal Eye, Closed Mesh, Multi-Weave

For permanent support when cable end is available to be installed.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.23"-.31" (.58-.79)	500 (2,224)	11" (27.94)	4.5" (11.43)	<b>02217016</b>
.28"-.37" (.74-.94)	500 (2,224)	11" (27.94)	5.5" (13.97)	<b>02217017</b>
.35"-.44" (.89-1.12)	870 (3,870)	12" (30.48)	6.5" (16.51)	<b>02217018</b>
.41"-.50" (1.04-1.27)	870 (3,870)	12" (30.48)	7.5" (19.05)	<b>02217019</b>
.46"-.56" (1.17-1.42)	1,050 (4,670)	12" (30.48)	8" (20.32)	<b>02217020</b>
.52"-.62" (1.32-1.57)	1,050 (4,670)	13" (33.02)	8.5" (21.59)	<b>02217021</b>
.58"-.68" (1.47-1.73)	1,050 (4,670)	13" (33.02)	9.5" (24.13)	<b>02217022</b>
.64"-.75" (1.63-1.90)	1,390 (6,183)	13" (33.02)	9.5" (24.13)	<b>02217023</b>
.70"-.81" (1.78-2.06)	1,390 (6,183)	14" (35.56)	10.5" (26.67)	<b>02217024</b>
.75"-.87" (1.90-2.21)	1,390 (6,183)	14" (35.56)	10.5" (26.67)	<b>02217025</b>
.81"-.94" (2.06-2.39)	1,390 (6,183)	14" (35.56)	10.5" (26.67)	<b>02217026</b>
.87"-1.00" (2.21-2.54)	1,790 (7,962)	14" (35.56)	11.5" (29.21)	<b>02217027</b>
.94"-1.06" (2.39-2.69)	1,790 (7,962)	15" (38.10)	12.5" (31.75)	<b>02217028</b>
1.00"-1.18" (2.54-3.00)	1,790 (7,962)	15" (38.10)	13.5" (34.29)	<b>02217029</b>
1.06"-1.25" (2.69-3.17)	1,790 (7,962)	15" (38.10)	14.5" (36.83)	<b>02217030</b>



Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Bus Drop Support Grips

Single Eye, Universal Eye, Galvanized Steel

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Safety Spring

Maximum Deflection Inches/Lbs (cm/N)	Approx. Breaking Strength Lbs. (N)	Length* Inches (cm)	Diameter Inches (cm)	Model Lbs. (N)	Catalog Number
2¾" at 40 lbs. (6.98 at 178)	500 (2,224)	8.25" (20.95)	.75" (1.90)	40 lb. spring (178)	<b>20302001</b>
3½" at 80 lbs. (7.94 at 356)	850 (3,781)	8.25" (20.95)	1" (2.54)	80 lb. spring (356)	<b>20302002</b>

Note: Springs can be used with single eye grips by disassembling drawbar from coil, placing through eye and replacing drawbar.  
\*No load.



### Single Eye, Wide Range

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.24"- .32" (.61-.81)	350 (1,557)	3" (7.62)	3.5" (8.89)	<b>073041276**</b>
.32"- .43" (.81-1.09)	450 (2,002)	4" (10.16)	4" (10.16)	<b>073041277</b>
.43"- .56" (1.09-1.42)	550 (2,446)	6" (15.24)	4.75" (12.06)	<b>073041278</b>
.56"- .73" (1.42-1.85)	1,000 (4,448)	7" (17.78)	6" (15.24)	<b>073041279</b>
.73"- .85" (1.85-2.16)	1,400 (6,227)	7" (17.78)	6.75" (17.14)	<b>073041280</b>
.85"-1.00" (2.16-2.54)	1,400 (6,227)	8" (20.32)	8" (20.32)	<b>073041281</b>
1.00"-1.25" (2.54-3.17)	1,500 (6,672)	9" (22.86)	9.5" (24.13)	<b>073041282</b>



### Universal Eye, Wide Range

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.32"- .43" (.81-1.09)	450 (2,002)	10" (25.40)	4" (10.16)	<b>073041284</b>
.43"- .56" (1.09-1.42)	550 (2,446)	12" (30.48)	4.75" (12.06)	<b>073041285</b>
.56"- .73" (1.42-1.85)	1,000 (4,448)	13" (33.02)	6" (15.24)	<b>073041286</b>
.73"- .85" (1.85-2.16)	1,400 (6,227)	13" (33.02)	6.75" (17.14)	<b>073041287</b>
.85"-1.00" (2.16-2.54)	1,400 (6,227)	14" (35.56)	8" (20.32)	<b>073041288</b>
1.00"-1.25" (2.54-3.17)	1,500 (6,672)	15" (38.10)	9.5" (24.13)	<b>073041289</b>

Note: E-Eye length. M-Mesh length at nominal diameter.  
\*\*Item indicated is not UL listed.

## Bus Drop Grips and Safety Springs

Kellems Bus Drop Grips are offered with either a single eye or universal bale attachment. The mesh is single weave galvanized steel with the patented wide range construction. They are suitable for indoor use only. Consult Technical Service for Stainless Steel Grips.

### Application

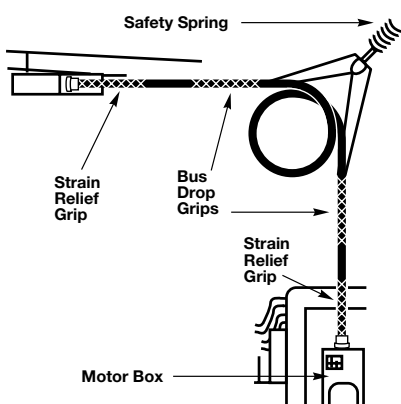
Bus Drop Grips provide a safe, easy and economical method to support flexible cord or bus drop cable at bus duct and other industrial areas.

### Benefits

- Easily installed
- Absorb tension, vibration and pull with no cable damage
- Patented mesh construction

### Safety Spring

Springs can be used with single eye grips by disassembling drawbar from coil, placing through eye and replacing drawbar.



Dimensions in Inches (mm)

## Conduit Riser Grips

### Single Weave, Closed Mesh

Kellems® Conduit Riser Support Grips are available in closed mesh and in split mesh with lace or rod closures, to cover all applications including single cable or multiple wire support. Refer to page V-37 for grip selection assistance for cable bundles. The standard material is tin-coated bronze strand. The grip is permanently fastened to a support ring, resulting in a one piece unit which will allow air ventilation within the conduit. The ring will fit standard electrical rigid metal conduit and schedule 40 rigid PVC conduit only. See page V-32 for ring dimensions. For permanent support when cable end is available to be installed through the grip.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Suitable For Standard Electrical Rigid Metal Conduit and Schedule 40 Rigid PVC Conduit Only

Cable Sizes In. (cm)	.50"-.62" (1.27-1.57)	.63"-.74" (1.60-1.88)	.75"-.99" (1.90-2.51)	1.00"-1.24" (2.54-3.15)	1.25"-1.49" (3.17-3.78)	1.50"-1.74" (3.81-4.42)	1.75"-1.99" (4.44-5.05)	2.00"-2.49" (5.08-6.32)	2.50"-2.99" (6.35-7.59)	3.00"-3.49" (7.62-8.86)	3.50"-3.99" (8.89-10.13)
Model	R050	R062	R075	R100	R125	R150	R175	R200	R250	R300	R350
Length In. (cm)	8" (20.32)	9" (22.86)	11" (27.94)	12" (30.48)	12" (30.48)	14" (35.56)	15" (38.10)	17" (43.18)	18" (45.72)	20" (50.80)	21" (53.34)
Conduit Sizes Inches	Catalog Number Approx. Breaking Strength Lbs. (N)										
¾	<b>02211106</b> 530 (2,357)	-	-	-	-	-	-	-	-	-	-
1	<b>02211100</b> 490 (2,179)	<b>02211101</b> 790 (3,514)	-	-	-	-	-	-	-	-	-
1¼	<b>02211001</b> 450 (2,002)	<b>02211002</b> 740 (3,292)	<b>02211003</b> 1,030 (4,581)	-	-	-	-	-	-	-	-
1½	-	<b>02211006</b> 690 (3,069)	<b>02211007</b> 970 (4,315)	<b>02211009</b> 1,610 (7,161)	-	-	-	-	-	-	-
2	-	<b>02211107</b> 640 (2,847)	<b>02211010</b> 920 (4,092)	<b>02211012</b> 1,520 (6,761)	<b>02211013</b> 1,610 (7,161)	-	-	-	-	-	-
2½	-	-	-	-	<b>02211017</b> 1,510 (6,716)	<b>02211018</b> 1,610 (7,161)	<b>02211019</b> 2,150 (9,563)	-	-	-	-
3	-	-	-	<b>02211022</b> 1,340 (5,960)	<b>02211023</b> 1,400 (6,227)	<b>02211024</b> 1,490 (6,627)	<b>02211025</b> 1,990 (8,851)	<b>02211026</b> 3,260 (14,500)	-	-	-
3½	-	-	-	-	-	-	-	<b>02211033</b> 2,970 (13,211)	<b>02211034</b> 3,260 (14,500)	-	-
4	-	-	-	-	-	-	<b>02211040</b> 1,670 (7,248)	<b>02211041</b> 2,680 (11,921)	<b>02211042</b> 2,890 (12,855)	<b>02211043</b> 4,080 (18,148)	-
5	-	-	-	-	-	-	-	-	<b>02211061</b> 2,150 (9,563)	<b>02211062</b> 2,860 (12,721)	<b>02211063</b> 3,130 (13,922)
6	-	-	-	-	-	-	-	-	-	<b>02211072</b> 2,245 (9,986)	<b>02211073</b> 2,245 (9,986)

Note: See page V-37 for multiple cables in a single conduit riser grip.



## Conduit Riser Grips

### Double Weave, Split Mesh, Lace Closing

Kellems® Conduit Riser Support Grips will support cable runs in vertical or sloping standard rigid conduit. The grip is fastened to a support ring which seats on the rim of the conduit. The entire grip is supported by the conduit itself and no other hardware is required. See page V-32 for ring dimensions. The rings will fit schedule 40 rigid PVC conduit and standard electrical rigid metal conduit only. For permanent support when cable end is not available.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Suitable For Standard Electrical Rigid Metal Conduit and Schedule 40 Rigid PVC Conduit Only

Cable Sizes In. (cm)	.75"-.99" (1.90-2.51)	1.00"-1.24" (2.54-3.15)	1.25"-1.49" (3.17-3.78)	1.50"-1.74" (3.81-4.42)	1.75"-1.99" (4.44-5.05)	2.00"-2.49" (5.08-6.32)	2.50"-2.99" (6.35-7.59)	3.00"-3.49" (7.62-8.86)	3.50"-3.99" (8.89-10.13)
Model	RS075	RS100	RS125	RS150	RS175	RS200	RS250	RS300	RS350
Length In. (cm)	11" (27.94)	12" (30.48)	12" (30.48)	14" (35.56)	15" (38.10)	17" (43.18)	18" (45.72)	20" (50.80)	21" (53.34)
Conduit Sizes Inches	Catalog Number		Approx. Breaking Strength Lbs. (N)						
1¼	<b>02212003</b> 1,580 (7,028)	—	—	—	—	—	—	—	—
1½	<b>02212007</b> 1,500 (6,672)	—	—	—	—	—	—	—	—
2	<b>02212010</b> 1,430 (6,361)	<b>02212012</b> 1,930 (8,585)	<b>02212013</b> 2,040 (9,074)	—	—	—	—	—	—
2½	—	—	<b>02212017</b> 1,910 (8,496)	<b>02212018</b> 2,040 (9,074)	—	—	—	—	—
3	—	—	<b>02212023</b> 1,780 (7,917)	<b>02212024</b> 1,890 (8,407)	<b>02212025</b> 2,520 (11,209)	<b>02212026</b> 4,300 (19,126)	—	—	—
3½	—	—	—	—	—	<b>02212033</b> 3,910 (17,392)	<b>02212034</b> 4,300 (19,126)	—	—
4	—	—	—	—	<b>02212040</b> 2,110 (9,385)	<b>02212041</b> 3,530 (15,701)	<b>02212042</b> 3,820 (16,991)	<b>02212043</b> 5,380 (23,930)	—
5	—	—	—	—	—	—	<b>02212061</b> 2,860 (12,721)	—	—
6	—	—	—	—	—	—	—	—	<b>02212073</b> 2,955 (13,144)

Note: See page V-37 for multiple cables in a single conduit riser grip.

Dimensions in Inches (mm)

## Conduit Riser Grips

### Single Weave, Split Mesh, Rod Closing Benefits

- Easy and fast to install
- Will not damage electrical cable
- Allows cable to expand or contract
- Ideal way to hold cable in vertical conduit
- Prevents cable creep in conduit
- Helps prevent cable pullouts
- The rings will fit schedule 40 rigid PVC conduit and standard electrical rigid metal conduit only
- For support when cable end is not available

**IMPORTANT**  
Read all breaking strength, safety and technical data relating to this product.



### Suitable For Standard Electrical Rigid Metal Conduit and Schedule 40 Rigid PVC Conduit Only

Cable Sizes In. (cm)	.75"-.99" (1.90-2.51)	1.00"-1.24" (2.54-3.15)	1.25"-1.49" (3.17-3.78)	1.50"-1.74" (3.81-4.42)	1.75"-1.99" (4.44-5.05)	2.00"-2.49" (5.08-6.32)	2.50"-2.99" (6.35-7.59)	3.00"-3.49" (7.62-8.86)	3.50"-3.99" (8.89-10.13)	
Model	RR075	RR100	RR125	RR150	RR175	RR200	RR250	RR300	RR350	
Length In. (cm)	11" (27.94)	12" (30.48)	12" (30.48)	14" (35.56)	15" (38.10)	17" (43.18)	18" (45.72)	20" (50.80)	21" (53.34)	
Conduit Sizes Inches	Catalog Number		Approx. Breaking Strength Lbs. (N)							
1¼	<b>02213003</b> 1,020 (4,537)	—	—	—	—	—	—	—	—	
1½	<b>02213007</b> 970 (4,315)	<b>02213009</b> 1,610 (7,161)	—	—	—	—	—	—	—	
2	—	<b>02213012</b> 1,520 (6,761)	<b>02213013</b> 1,610 (7,161)	—	—	—	—	—	—	
2½	—	—	<b>02213017</b> 1,510 (6,716)	<b>02213018</b> 1,610 (7,161)	—	—	—	—	—	
3	—	—	<b>02213023</b> 1,400 (6,227)	<b>02213024</b> 1,490 (6,627)	<b>02213025</b> 1,990 (8,851)	<b>02213026</b> 3,260 (14,500)	—	—	—	
3½	—	—	—	—	—	<b>02213033</b> 2,970 (13,211)	—	—	—	
4	—	—	—	—	—	<b>02213041</b> 2,670 (11,876)	<b>02213042</b> 2,890 (12,855)	—	—	

Note: See page V-37 for multiple cables in a single conduit riser grip.

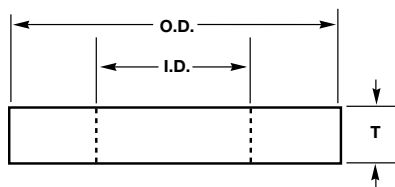
Dimensions in Inches (mm)

## Conduit Ring Dimensions

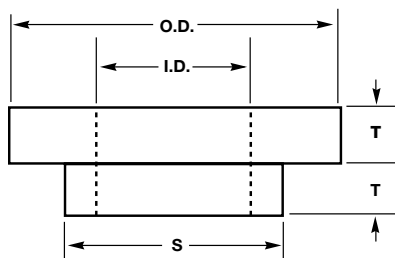
Ring dimensions are found in the chart below. The ring material is corrosion resistant. These rings will fit schedule 40 rigid PVC conduit and standard electrical rigid metal conduit only.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



Conduit Size 3/4" and 1"



Conduit Size 1 1/4" to 6"

Conduit Size Inches	Ring Number	O.D. Inches (cm)	I.D. Inches (cm)	S Inches (cm)	T Inches (cm)
3/4	C-3/4	.94" (2.39)	.62" (1.57)	—	.19" (.48)
1	C-1	1.17" (2.97)	.80" (2.03)	—	.19" (.48)
1 1/4	C-1 1/4	1.50" (3.81)	1.03" (2.62)	1.31" (3.33)	.16" (.41)
1 1/2	C-1 1/2	1.76" (4.47)	1.23" (3.12)	1.52" (3.86)	.16" (.41)
2	C-2	2.23" (5.66)	1.55" (3.94)	1.97" (5.00)	.16" (.41)
2 1/2	C-2 1/2	2.67" (6.78)	2.05" (5.21)	2.40" (6.10)	.16" (.41)
3	C-3	3.20" (8.13)	2.55" (6.48)	2.97" (7.54)	.22" (.56)
3 1/2	C-3 1/2	3.80" (9.65)	3.05" (7.75)	3.47" (8.81)	.22" (.56)
4	C-4	4.30" (10.92)	3.55" (9.02)	3.94" (10.01)	.22" (.56)
4 1/2	C-4 1/2	4.80" (12.19)	4.03" (10.24)	4.45" (11.30)	.22" (.56)
5	C-5	5.30" (13.46)	4.46" (11.33)	4.96" (12.60)	.22" (.56)
6	C-6	6.30" (16.00)	5.36" (13.61)	5.96" (15.14)	.25" (.63)

## Kellems® Support Grips

Kellems Support Grips are used to hold the weight of electrical cable as it hangs in a vertical, sloping or horizontal position. Electrical cable must be supported, or its dead weight can cause excessive strain or pullout at the connections resulting in power failure. Support grips also absorb additional strain from flexure, vibration, expansion and contraction. Kellems Support Grips listed in this catalog are made of high grade, non-magnetic tin-coated bronze strand. Stainless steel grips, made of alloy 302–304 SST for severe service or unusual environmental conditions, are available on request.

### Select the Correct Support Grip

Each Kellems grip is designed to work on a specific range of cable diameters.

- Step 1** Refer to the Kellems chart below to determine the grip style best suited for your application.
- Step 2** Determine your cable outside diameter.
- Step 3** Find the grip size that encompasses your cable diameter.
- Step 4** Whenever possible, use a closed mesh that assembles over the cable end. If the cable end is not available, use a split mesh.
- Step 5** Where available, select an eye style that suits your needs.
- Step 6** Select the proper material—tinned bronze or stainless steel\*.
- Step 7** Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to insure that the grip will be strong enough. Refer to page V-34 for safety and working load considerations.

**WARNING:** It is very important to read and understand all safety information before proceeding. Failure to do so may result in property damage, personal injury or death.

Grips are to be installed and utilized by a qualified technician in accordance with all applicable national and local safety and electrical codes. Consult a licensed project safety professional, if necessary.

Ensure that the correct grip is selected for your specific needs. Grips should only be used for their intended purpose and not for other applications.

Banding the tail end of the grip is required to prevent unintended release of the grip's hold from the cable and to achieve maximum gripping strength

The strength of a Kellems grips is based on laboratory testing and does not evaluate variable conditions such as cable type, gripping surfaces, cable movement or impact loads. Suitability for the application must be determined by the user.

Thoroughly examine the condition of the grip prior to each use. Grips that are worn, bent, corroded, or show other signs of damage, such as frayed or broken wires, should never be used and must be replaced.

Do not modify the grip in any way.

Ensure that the recommended work load of the grip is suitable for the application. Never use a grip beyond its safe working load, which is the approximate breaking strength divided by the factor of safety. The recommended factor of safety is five (5) for pulling grips and ten (10) for support grips.

Pulling hardware should only be attached to the eye of the grip.

A swivel is recommended for attachment to the grip's eye in applications where torque release is necessary. Torque can build up in high tension pulling applications.

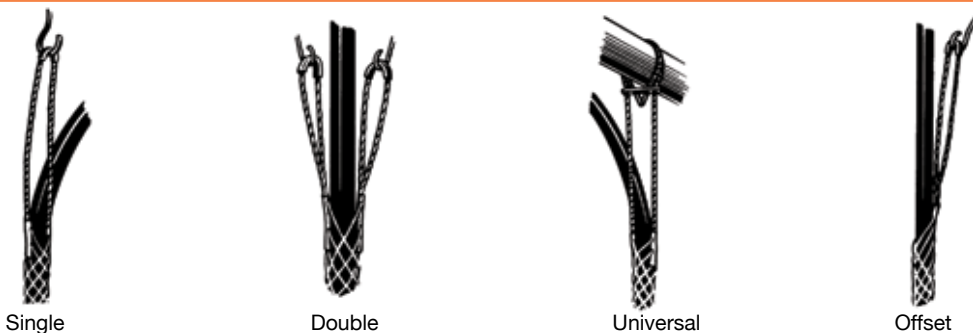
Do not run grips and swivels around sheaves or bull wheels while under tension. For synthetic rope, use Kellems Dua-Pull Grips only.

### Support Grip Selection Chart

Grip Styles	Application
Closed mesh	Standard, permanent support, cable end available.
Split lace closing	Standard, permanent support, cable end unavailable.
Split rod closing	Standard, temporary support, cable end unavailable. Tape or band tail end of wire mesh grip after positioning for permanent support.
Material*	Tin-coated bronze standard or stainless steel by special request.
Standard support grips	Support vertical runs to 99 ft. loads to 600 lbs.
Heavy duty grips	Support vertical runs over 100 ft. loads over 600 lbs.
Service drop	Light duty to support service entrance cable.
Bus drop	Light duty support, indoors only, on Bus drop cable.
Conduit riser	Support cable runs in rigid (Schedule 40) conduit.
Fiber optic cable support grips	Support fiber optic cable.

*Note: \*Most catalog listed support grips are made of tin-coated bronze strand. To order stainless steel support grips, change the first three catalog number digits from 022-0x-xxx to 024-0x-xxx. Consult Technical Service for details.*

### Eye Styles



## Safety And Working Load Factors For Wire Mesh Grips

The broad application of Kellems grips on a wide variety of objects requires that adequate safety factors be used to establish working loads. The approximate breaking strength of a Kellems grip represents an average calculation based on data established from actual direct tension testing done in our engineering laboratories.

It is impossible to catalog or guarantee a safety factor suitable for all applications as operating conditions are never the same. The tension, diameter, movement, number of objects gripped, gripping surface, and the attachments used are just some of the factors which vary with each application. These factors, together with the effects of abrasion, corrosion, prior use or abuse and any other variables of a specific application, must be considered by the user and the grip replaced as appropriate. Where the

conditions of the application are not well defined or known, or where risk of injury to persons or property is involved, a greater safety factor should be utilized.

### IMPORTANT

**Under normal conditions, Kellems' recommended factor of safety is five for catalog listed pulling grips, and ten for catalog listed support grips.**

Any warranty as to quality, performance or fitness for use of grips is always premised on the condition that the published breaking strengths apply only to new, unused grips, and that such products are properly stored, handled, used, maintained, and inspected by the user at a frequency appropriate for the use and condition of the grip.

## Examples

Grip Style	Approx. Breaking Strength Lbs. (N)	Safety Factor	Max. Recommended Load Lbs. (N)	Catalog Number
Pulling Grips	27,200 (120,986)	5	5,440 (24,197)	<b>03301027</b>
Support Grips	1,610 (7,161)	10	161 (716)	<b>02202019</b>

The maximum recommended working load is the tension to be exerted on the grip in application with a margin of safety to take care of unforeseen and unusual circumstances.

It is the end-user's decision to determine how much of a safety factor is acceptable for the application.

The metric unit of measure (force) for breaking strength and load is newtons (N). To convert from newtons to the metric unit of weight (kilograms) the conversion factor is 9.808 newtons/kilogram.

## Support Grip Materials

Material	Features	Grip Type
Tin-coated bronze wire	<ul style="list-style-type: none"> <li>• Corrosion resistant for normal outside areas</li> <li>• Non-magnetic</li> <li>• Moderate strength</li> </ul>	<ul style="list-style-type: none"> <li>• Support grips</li> <li>• Service drop grips</li> <li>• Conduit riser grips</li> </ul>
Stainless steel wire (302-304)	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Corrosion resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Support grips</li> <li>• Hose containment grips</li> </ul>
Galvanized steel wire	<ul style="list-style-type: none"> <li>• Slightly magnetic</li> <li>• Not subject to continuous outside environment</li> </ul>	<ul style="list-style-type: none"> <li>• Bus drop grips</li> </ul>
Non-metallic aramid fiber	<ul style="list-style-type: none"> <li>• Corrosion resistant for highly corrosive gases</li> </ul>	<ul style="list-style-type: none"> <li>• Support grips</li> </ul>

## Approvals

CSA Certifications are indicated on appropriate product catalog pages.

*Note: It is always recommended that the tail end of the grip be banded after the installation on the cable to prevent accidental release of the mesh. See page V-16 for end bands.*



## Split Support Grip Lace Closing Instructions

Single Weave Grips should be laced with single strand lacing; double weave with double strand. Lacing strands should be the same material as the grip. Kellems supplies the appropriate lacing with each grip.

1. Start the lacing at the lead or anchoring end of the grip. Thread the lacings through the first two loops of the split and pull through until the lacings are centered at this point. Lace as you would your shoe, crossing the lacings before lacing the next two loops.
2. Don't pull lacing too tight. Leave a space between adjoining loops approximately equal to the width of one diamond of the mesh.
3. Twist the lacing strands tightly together at the tail end of the grip.
4. Wrap the ends of the lacings once or twice tightly around the tail of the grip, twisting the ends together securely. Excess lace can be cut off.



## Split Support Grip Rod Closing Instructions

The stainless steel rod is a precise built-in feature which makes threading easy and fast. The strands of the mesh pass around the rod and match up with the strands from the opposite direction. The rod does not touch the cable at any point and therefore cannot cut the cable. Rod Closing Grips are reusable. They may be removed and reused as many times as desired.

### 1. Fast to install

Wrap the grip around the cable and thread the rod through the pre-formed loops with a corkscrew motion, using the curved end of the rod to engage the loops.

2. The action required is a steady push and twist simultaneously. The fingers of the left hand are used to bring the loops together just ahead of the hook on the end of the rod.
3. To remove, simply pull the rod out.

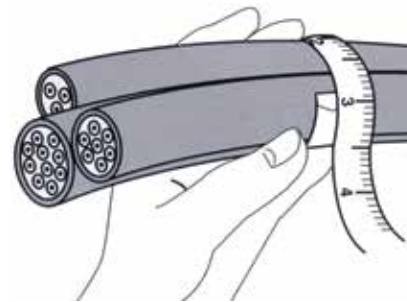


## For Support Grips Only\*

### Multiple Cable Selection Charts for Cables and Wires of Unequal Diameters

#### How to choose the correct grip size:

1. Find the Grip Circumference Range by measuring the circumference of the bundle of different diameter cables to be gripped (see illustration).
2. Divide the bundle circumference by 3.14 to determine the diameter.
3. Choose a grip offering a range of cable diameters the same as the cable diameter.



#### For Cables of Equal Diameters

Under "Number of Cables in One Grip", find the diameter of your single cable in vertical column. Read the grip diameter range to the right. If your diameter is the maximum of the range shown, go to the next larger size for Split Grips, stay with the same size for Closed Grips.

**Example:** 3 cables, each with .89" (2.26) diameter, for a Closed Grip select the 1.50"-1.74" (3.81-4.42) range, for a Split Grip select the 1.75"-1.99" (4.44-5.05) range.

#### Number of Cables in One Grip

2	3	4	5	6 and 7	8	9	Grip Dia. Range Inches (cm)
.30-.38 (.76-.97)	.25-.31 (.63-.79)	.22-.27 (.56-.69)	.19-.24 (.48-.61)	.17-.22 (.43-.56)	.15-.19 (.38-.48)	.14-.18 (.36-.46)	.50-.61 (1.27-1.55)
.38-.44 (.97-1.12)	.31-.36 (.79-.91)	.27-.31 (.69-.79)	.24-.29 (.61-.74)	.22-.26 (.56-.66)	.19-.23 (.48-.58)	.18-.21 (.46-.53)	.62-.74 (1.57-1.88)
.44-.59 (1.12-1.50)	.36-.49 (.91-1.24)	.31-.42 (.79-1.07)	.29-.38 (.74-.97)	.26-.34 (.66-.86)	.23-.31 (.58-.79)	.21-.28 (.53-.71)	.75-.99 (1.90-2.51)
.59-.75 (1.50-1.90)	.49-.63 (1.24-1.60)	.42-.54 (1.07-1.37)	.38-.48 (.97-1.22)	.34-.43 (.86-1.09)	.31-.39 (.79-.99)	.28-.35 (.71-.89)	1.00-1.24 (2.54-3.15)
.75-.90 (1.90-2.29)	.63-.76 (1.60-1.93)	.54-.65 (1.37-1.65)	.48-.58 (1.22-1.47)	.43-.52 (1.09-1.32)	.39-.46 (.99-1.17)	.35-.42 (.89-1.07)	1.25-1.49 (3.17-3.78)
.90-1.07 (2.29-2.72)	.76-.89 (1.93-2.26)	.65-.77 (1.65-1.96)	.58-.67 (1.47-1.70)	.52-.60 (1.32-1.52)	.46-.54 (1.17-1.37)	.42-.49 (1.07-1.24)	1.50-1.74 (3.81-4.42)
1.07-1.22 (2.72-3.10)	.89-1.02 (2.26-2.59)	.77-.88 (1.96-2.24)	.67-.77 (1.70-1.96)	.60-.69 (1.52-1.75)	.54-.62 (1.37-1.57)	.49-.56 (1.24-1.42)	1.75-1.99 (4.44-5.05)
1.22-1.53 (3.10-3.89)	1.02-1.28 (2.59-3.25)	.88-1.10 (2.24-2.79)	.77-.96 (1.96-2.44)	.69-.86 (1.75-2.18)	.62-.77 (1.57-1.96)	.56-.71 (1.42-1.80)	2.00-2.49 (5.08-6.32)
1.53-1.83 (3.89-4.65)	1.28-1.53 (3.25-3.89)	1.10-1.32 (2.79-3.35)	.96-1.16 (2.44-2.95)	.86-1.03 (2.18-2.62)	.77-.93 (1.96-2.36)	.71-.85 (1.80-2.16)	2.50-2.99 (6.35-7.59)
1.83-2.14 (4.65-5.44)	1.53-1.79 (3.89-4.55)	1.32-1.54 (3.35-3.91)	1.16-1.35 (2.95-3.43)	1.03-1.20 (2.62-3.05)	.93-1.08 (2.36-2.74)	.85-.99 (2.16-2.51)	3.00-3.49 (7.62-8.86)
2.14-2.44 (5.44-6.20)	1.79-2.05 (4.55-5.21)	1.54-1.76 (3.91-4.47)	1.35-1.54 (3.43-3.91)	1.20-1.37 (3.05-3.48)	1.08-1.24 (2.74-3.15)	.99-1.13 (2.51-2.87)	3.50-3.99 (8.89-10.13)
2.44-2.75 (6.20-6.98)	2.05-2.30 (5.21-5.84)	1.76-1.98 (4.47-5.03)	1.54-1.74 (3.91-4.42)	1.37-1.55 (3.48-3.94)	1.24-1.39 (3.15-3.53)	1.13-1.27 (2.87-3.23)	4.00-4.49 (10.16-11.40)
2.75-3.06 (6.98-7.77)	2.30-2.56 (5.84-6.50)	1.98-2.20 (5.03-5.59)	1.74-1.93 (4.42-4.90)	1.55-1.72 (3.94-4.37)	1.39-1.55 (3.53-3.94)	1.27-1.41 (3.23-3.58)	4.50-4.99 (11.43-12.67)

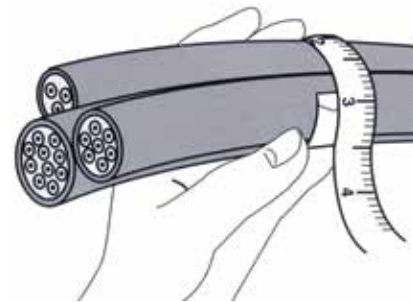
Note: \*This chart is to be used for determining grip size when multiple cables are held in a single Support Grip. For Conduit Riser multiple cable selection, see page V-37. It is always recommended that, when multiple cables are installed in a Support Grip, the tail end of the grip be banded after installation on the cable bundle. See page Tech-23 for cable and wire charts.

## For Conduit Riser Grips Only\*

### Multiple Cable Selection Charts for Cables and Wires of Unequal Diameters

#### How to choose the correct grip size:

1. Find the Grip Circumference Range by measuring the circumference of the bundle of different diameter cables to be gripped (see illustration).
2. Divide the bundle circumference by 3.14 to determine the diameter.
3. Choose a grip offering a range of cable diameters the same as the cable diameter.



### For Cables of Equal Diameters

Under "Number of Cables in One Grip", find the diameter of your single cable in vertical column. Read the grip diameter range to the right. If your diameter is the maximum of the range shown, go to the next larger size for Split Grips, stay with the same size for Closed Grips.

**Example:** 3 cables, each with .85" (2.16) diameter, for a Closed Grip select the 1.50"-1.74" (3.81-4.42) range, for a Split Grip select the 1.75"-1.99" (4.44-5.05) range.

### Number of Equal Diameter Cables in One Grip

2	3	4	5	6 and 7	8	9	Grip Dia. Range Inches (cm)
.29-.36 (.74-.91)	.24-.30 (.61-.76)	.21-.25 (.53-.63)	.18-.22 (.46-.56)	.16-.20 (.41-.51)	.15-.18 (.38-.46)	.14-.17 (.36-.43)	.50-.62 (1.27-1.57)
.37-.43 (.94-1.09)	.31-.36 (.79-.91)	.26-.30 (.66-.76)	.23-.27 (.58-.69)	.21-.24 (.53-.61)	.19-.22 (.48-.56)	.18-.20 (.46-.51)	.63-.74 (1.60-1.88)
.44-.58 (1.12-1.47)	.37-.48 (.94-1.22)	.31-.41 (.79-1.04)	.28-.36 (.71-.91)	.25-.32 (.63-.81)	.23-.29 (.58-.74)	.21-.27 (.53-.69)	.75-.99 (1.90-2.51)
.59-.72 (1.50-1.83)	.49-.60 (1.24-1.52)	.42-.51 (1.07-1.30)	.37-.45 (.94-1.14)	.33-.40 (.84-1.02)	.30-.36 (.76-.91)	.28-.34 (.71-.86)	1.00-1.24 (2.54-3.15)
.73-.87 (1.85-2.21)	.61-.72 (1.55-1.83)	.52-.61 (1.32-1.55)	.46-.54 (1.17-1.37)	.41-.48 (1.04-1.22)	.37-.43 (.94-1.09)	.35-.40 (.89-1.02)	1.25-1.49 (3.17-3.78)
.88-1.01 (2.24-2.57)	.73-.85 (1.85-2.16)	.62-.71 (1.57-1.80)	.55-.63 (1.40-1.60)	.49-.56 (1.24-1.42)	.44-.51 (1.12-1.30)	.41-.47 (1.04-1.19)	1.50-1.74 (3.81-4.42)
1.02-1.16 (2.59-2.95)	.86-.96 (2.18-2.44)	.72-.81 (1.83-2.06)	.64-.72 (1.63-1.83)	.57-.64 (1.45-1.63)	.52-.58 (1.32-1.49)	.48-.54 (1.22-1.37)	1.75-1.99 (4.44-5.05)
1.17-1.44 (2.97-3.66)	.97-1.20 (2.46-3.05)	.82-1.02 (2.08-2.59)	.73-.90 (1.85-2.29)	.65-.80 (1.65-2.03)	.59-.72 (1.50-1.83)	.55-.67 (1.40-1.70)	2.00-2.49 (5.08-6.32)
1.45-1.73 (3.68-4.39)	1.21-1.45 (3.07-3.68)	1.03-1.22 (2.62-3.10)	.91-1.08 (2.31-2.74)	.81-.96 (2.06-2.44)	.73-.87 (1.85-2.21)	.68-.81 (1.73-2.06)	2.50-2.99 (6.35-7.59)
1.74-2.02 (4.42-5.13)	1.46-1.69 (3.71-4.29)	1.23-1.43 (3.12-3.63)	1.09-1.26 (2.77-3.20)	.97-1.11 (2.46-2.82)	.83-1.01 (2.11-2.57)	.82-.94 (2.08-2.39)	3.00-3.49 (7.62-8.86)
2.03-2.31 (5.16-5.87)	1.70-1.93 (4.32-4.90)	1.44-1.63 (3.66-4.14)	1.27-1.44 (3.23-3.66)	1.12-1.27 (2.84-3.23)	1.02-1.15 (2.59-2.92)	.95-1.08 (2.41-2.74)	3.50-3.99 (8.89-10.13)

Note: \*This chart is to be used for determining grip size when multiple cables are held in a single Conduit Riser Grip. For Support Grip multiple cable selection, see page V-36. It is always recommended that, when multiple cables are installed in a Conduit Riser Grip, the tail end of the grip be banded after installation on the cable bundle. See page Tech-23 for cable and wire charts.

# Kellems® Wire Management Products

## Features and Benefits

### Support Grips

Kellems has wide experience with grips for use with fiber optic cable. As the industry leader in producing wire mesh grips for the stringent requirements of fiber optic applications, Kellems has developed several series of grips for use with fiber optic communications cable.

These grips include pulling grips with built in swivels, grips with steel ends to protect fragile cable ends, grips with low profiles to pull cables in tight places and the OPTISOK® an effective tool to place pre-terminated cables. Also available are grips to support fiber optic cable.



CCPS2



PFOLT312



#### Non-Metallic

- OPTISOK® non-metallic fiber optic pulling tool for pre-terminated, inside plant fiber optic cables and bundles of twisted pair



#### Galvanized Steel

- Pulling grip for loose tube fiber optic cable
- These grips are used for outside plant cable; they are easy to install and remove, reusable and have a slim profile for small build up



#### Application

- Kellems flexible eye pulling grips for fiber optic cable are used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures
- They will fit single cables or cable bundles, are easily installed on the cable and are reusable



#### Comprehensive Offering

- Hubbell offers a full line of fiber optic pulling grips for all application needs
- OPTISOK® Grip is a revolutionary tool to pull pre-terminated fiber optic cables
- They will protect the connectors and guide the bundle through the pulling environment

## OPTISOK® Non-metallic Fiber Optic Pulling Tool for Pre-terminated, Inside Plant Fiber Optic Cables and Bundles of Twisted Pair

Kellems offers a unique and simple to use tool for the installation of pre-connectorized fiber optic cables, jumpers and bundles of twisted pair communication cables - the OPTISOK®.

The OPTISOK® is a highly flexible and expandable nonmetallic sleeve open on one end and with a pulling ring on the other. It will expand to enclose the larger group of fiber optic connectors and grab the cable below the connector bundle by wrapping and taping to provide a gripping tool that will grab the cable(s) below the connectors. The pulling ring can be attached to a pulling line or fish tape and the OPTISOK® will act as the pulling tool.

OPTISOK® will contain and protect the connector bundle and save time and labor by making the pulling job easier, protecting the connectors from possible damage during the pull and facilitating the passage of the connector bundle through cramped and tight spaces. The OPTISOK® can be used to pull cables through plenums, underfloor duct, office partitions, raised access floors and conduits. Three sizes are available for all applications.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### OPTISOK® Non-Metallic Fiber Optic Pulling Tool

Bundle/Size Range Inches (cm)	Approx. O/A Length Inches (cm)	Ring O.D. Inches (cm)	Ring Thickness Inches (cm)	Maximum Work Load Lbs. (N)	Catalog Number
.125"-.562" (.318-1.427)	28" (71.12)	.71" (1.803)	.10" (.254)	30 (133)	<b>CCPS1</b>
.250"-.750" (.635-1.905)	31" (78.74)	.71" (1.803)	.10" (.254)	40 (178)	<b>CCPS2</b>
.750"-1.750" (1.905-4.445)	33" (83.82)	1.57" (3.988)	.16" (.406)	50 (222)	<b>CCPS3</b>

### How to Select OPTISOK®

- Identify connector bundle diameter to be inserted into the OPTISOK®.
- Choose appropriate catalog number based on size range.

### Installation Information

**Step 1** Expand open end of OPTISOK® and gently work in fiber optic connector bundle.

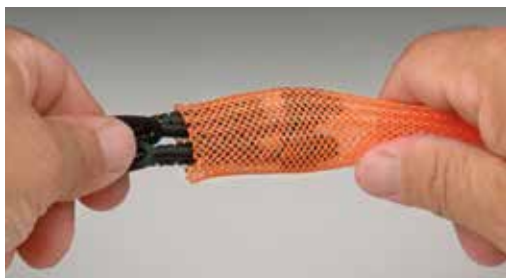
**Step 2** Still gently, work connector bundle up to the forward section of the OPTISOK®.

**Step 3** Starting at approximately 6" (15.2cm) from tail end of OPTISOK®, tightly fold over the OPTISOK® around cables and tape wrapped section 3" (7.62cm) past tail end onto the bundle.

**Step 4** Securely attach pulling line or tape to pulling ring.

*Note: To remove OPTISOK® carefully unwrap tape and slide out cables and connectors or cut OPTISOK® away without damaging connectors or cables.*

#### Step 1



#### Step 2



#### Step 3



#### Step 4





## Pulling Grip for Loose Tube Fiber Optic Cable, Galvanized Steel

Kellems offers a wire mesh specifically designed to pull loose tube fiber optic cable and meet the special pulling requirements recommended by fiber optic cable manufacturers.

Many fiber optic cable manufacturers require special cable preparation prior to pulling where a short section of the outer jacket is stripped off exposing the aramid strength member. This creates two cable diameters, one including the jacket and a second smaller diameter at the strength member. Kellems fiber grip with its special weave will accommodate and securely grab both diameters, at the outside jacket and the internal aramid strength member.

Additionally, this galvanized steel mesh grip has longer leads at the pulling eye to facilitate pulling the cable up through the top, a very low profile lug and eye to slip through tight areas, and short shoulders to protect the cable while maintaining the slim profile.

The grip can be used to pull cable overhead as well as underground through conduit and duct. It easily mates with a swivel and has the necessary strength to securely make pulls.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

## Application Information

- Prior to pulling cable, follow cable manufacturers' cable preparation recommendations
- Never exceed cable manufacturers' pulling tension recommendations
- Never use grips to approximate breaking strength safety factor of 5 recommended



## Pulling Grip For Loose Tube Fiber Optic Cable, Galvanized Steel

Diameter Range Inches (cm)	Mesh Length Inches (cm)	Eye Length Inches (cm)	Eye Diameter Inches (cm)	Lug Diameter Inches (cm)	Maximum Breaking Strength Lbs. (N)	Catalog Number
.312"-.625" (.79-1.59)	22.5" (57.15)	6.3" (16.00)	.20" (.51)	.51" (1.30)	3,000 (13,344)	<b>PFOLT312</b>

## Pulling Grips for Other Outside Plant Cables, Swivel Eye, Flexible Eye, Split Style, Low Profile

Kellems Pulling Grips for fiber optic cable are made of high strength galvanized steel strand. They feature a multiweave mesh, with one-half the mesh length double weave, and the second half single weave. This special weave provides positive holding power while allowing the grip to remain flexible with no damage to the cable jacket. Added features include a steel nose cone which protects the cable end and allows the grip to pass easily through conduit and enclosures. The eye connects easily to a swivel or a pulling line. Several grip sizes are available to accommodate all diameters of fiber optic cable.

### IMPORTANT

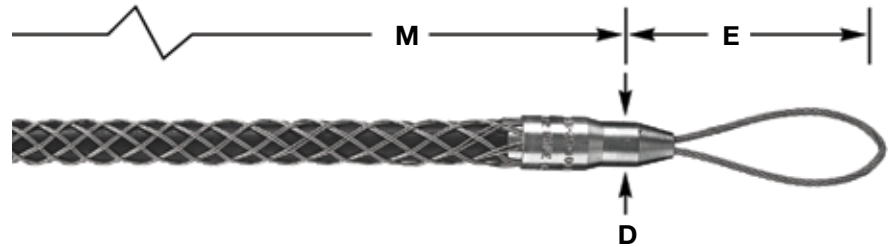
Read all breaking strength, safety and technical data relating to this product.

### Application

Kellems Flexible Eye Pulling Grips for fiber optic cable are used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures. They will fit single cables or cable bundles, are easily installed on the cable and are reusable.

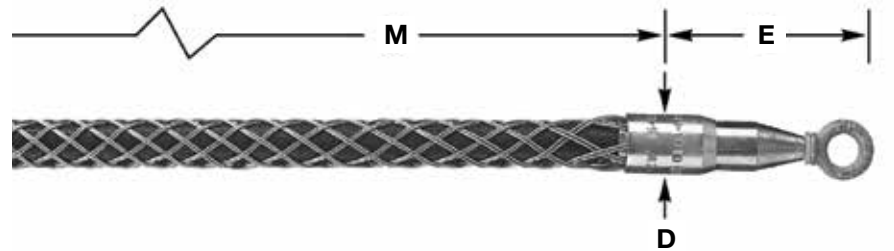
### Benefits

- High strength multiweave mesh for positive holding power
- Highly flexible mesh to follow the pulling path of the cable
- Steel nose cone reduces snags and hang-ups and protects cable end
- Easily installed and removed
- A dependable, reusable pulling tool



### Fiber Optic Pulling Grip, Flexible Eye

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Approx. Inches (cm)	M Approx. Inches (cm)	D Approx. Inches (cm)	Catalog Number
.10"-.22" (.25-.56)	1,000 (4,448)	5.5" (14)	9" (23)	0.8" (2)	<b>033291000</b>
.21"-.35" (.53-.89)	1,500 (6,672)	5.5" (14)	14" (36)	0.8" (2)	<b>033291001</b>
.32"-.48" (.81-1.22)	2,200 (9,786)	6.0" (15)	18" (46)	0.9" (2.29)	<b>033291002</b>
.42"-.61" (1.07-1.55)	2,800 (12,454)	6.0" (15)	21" (53)	0.9" (2.29)	<b>033291003</b>
.53"-.74" (1.35-1.88)	3,300 (14,678)	6.5" (17)	24" (61)	1.3" (3.30)	<b>033291004</b>
.64"-.87" (1.63-2.21)	4,700 (20,906)	6.5" (17)	27" (69)	1.3" (3.30)	<b>033291005</b>



### Fiber Optic Pulling Grip, Swivel Eye

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Approx. Inches (cm)	M Approx. Inches (cm)	D Approx. Inches (cm)	Catalog Number
.21"-.35" (.53-.89)	1,500 (6,672)	4.0" (10.16)	14" (35.56)	0.9" (2.29)	<b>033291008</b>
.32"-.48" (.81-1.22)	2,200 (9,786)	4.0" (10.16)	18" (45.72)	0.9" (2.29)	<b>033291009</b>
.42"-.61" (1.07-1.55)	2,800 (12,454)	4.0" (10.16)	21" (53.34)	0.9" (2.29)	<b>033291010</b>
.53"-.74" (1.35-1.88)	3,250 (14,457)	4.8" (12.19)	24" (60.96)	1.3" (3.30)	<b>033291011</b>
.64"-.87" (1.63-2.21)	4,700 (20,906)	4.8" (12.19)	27" (68.58)	1.3" (3.30)	<b>033291012</b>

Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Pulling Grips for Other Outside Plant Cables, Swivel Eye, Flexible Eye, Split Style, Low Profile

Kellems Pulling Grips for fiber optic cable are made of high strength galvanized steel strand. They feature a multiweave mesh, with one-half the mesh length double weave, and the second half single weave. This special weave provides positive holding power while allowing the grip to remain flexible with no damage to the cable jacket. Added features include a steel nose cone which protects the cable end and allows the grip to pass easily through conduit and enclosures. The eye connects easily to a swivel or a pulling line. Several grip sizes are available to accommodate all diameters of fiber optic cable.

### IMPORTANT

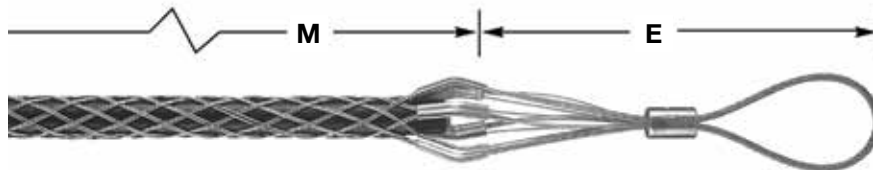
Read all breaking strength, safety and technical data relating to this product.

### Application

Kellems Flexible Eye Pulling Grips for fiber optic cable are used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures. They will fit single cables or cable bundles, are easily installed on the cable and are reusable.

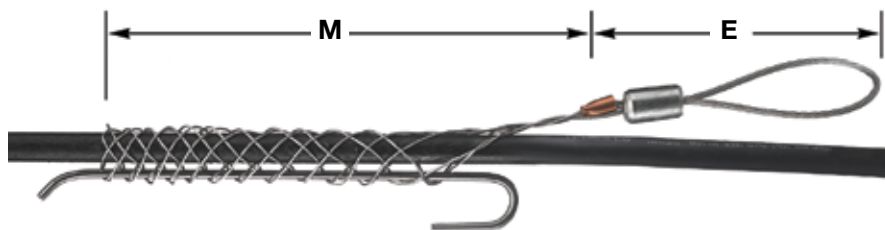
### Benefits

- High strength multiweave mesh for positive holding power
- Highly flexible mesh to follow the pulling path of the cable
- Steel nose cone reduces snags and hang-ups and protects cable end
- Easily installed and removed
- A dependable, reusable pulling tool



### Fiber Optic Pulling Grip, Flexible Eye, Low Profile, Double/Single Weave Mesh

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Approx. Inches (cm)	M Approx. Inches (cm)	Catalog Number
.10"-.22 (.25-.56)	900 (4,003)	7.5" (19)	10" (25)	<b>033291193</b>
.21"-.35" (.53-.89)	1,400 (6,227)	7.5" (19)	14" (36)	<b>033291194</b>
.32"-.48" (.81-1.22)	2,000 (8,896)	8.5" (22)	19" (48)	<b>033291195</b>
.42"-.61" (1.07-1.55)	2,500 (11,120)	8.5" (22)	21" (53)	<b>033291196</b>
.53"-.74" (1.35-1.88)	3,000 (13,344)	8.5" (22)	23" (58)	<b>033291197</b>
.64"-.87" (1.63-2.21)	4,200 (18,682)	8.5" (22)	25" (64)	<b>033291198</b>
.75"-.1.00" (1.90-2.54)	4,200 (18,682)	8.5" (22)	28" (71)	<b>033291199</b>



### Fiber Optic Slack Pulling Grip, Split Mesh Rod Closing, Single Weave

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Approx. Inches (cm)	M Approx. Inches (cm)	Catalog Number
.25"-.37" (.63-.94)	300 (1,334)	3" (7.6)	4.7" (12)	<b>033291015</b>
.38"-.49" (.97-1.24)	800 (3,558)	3" (7.6)	5" (13)	<b>033291016</b>
.50"-.61" (1.27-1.55)	800 (3,558)	3" (7.6)	7.5" (19)	<b>033291017</b>
.62"-.74" (1.57-1.88)	1,200 (5,338)	3" (7.6)	8" (20)	<b>033291018</b>

Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Pulling Grips for Other Outside Plant Cables, Swivel Eye, Flexible Eye, Split Style, Low Profile

Kellems Support Grips for fiber optic cable are specially designed to hold the cable weight as it hangs in a vertical or horizontal position. Fiber optic cable must be supported and Kellems Grips provide the support easily and economically.

These grips are made of high grade, non-magnetic tin-coated bronze strand. They are offered in universal bale or single eye configurations and are available in either closed mesh (for use where the cable end is available) or in split mesh, rod closing (for installation on existing cable runs or at specific locations).

**IMPORTANT**  
Read all breaking strength, safety and technical data relating to this product.

### Fiber Optic Single Eye Cable Support Grip, Closed Mesh, Single Weave

For permanent support when cable end is available to be installed through grip.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Approx. Inches (cm)	M Approx. Inches (cm)	Catalog Number
.18"-.25" (.46-.63)	300 (1,334)	3" (7.6)	1.7" (4.3)	<b>022291000</b>
.23"-.32" (.58-.81)	300 (1,334)	3" (7.6)	2.5" (6.4)	<b>022291001</b>
.30"-.39" (.76-.99)	300 (1,334)	4" (10)	2.5" (6.4)	<b>022291002</b>
.37"-.48" (.94-1.22)	300 (1,334)	5" (13)	4" (10)	<b>022291003</b>
.46"-.58" (1.17-1.47)	400 (1,779)	6" (15)	4" (10)	<b>022291004</b>
.56"-.71" (1.42-1.80)	600 (2,669)	7" (18)	5.5" (14)	<b>022291005</b>
.69"-.88" (1.75-2.24)	800 (3,558)	8" (20)	6" (15)	<b>022291006</b>



### Fiber Optic Single Eye Cable Support Grip, Split Mesh, Rod Closing, Single Weave

For support when cable end not available.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Approx. Inches (cm)	M Approx. Inches (cm)	Catalog Number
.18"-.25" (.46-.63)	300 (1,334)	3" (7.6)	2.5" (6.4)	<b>022291016</b>
.23"-.32" (.58-.81)	300 (1,334)	3" (7.6)	2.5" (6.4)	<b>022291017</b>
.30"-.39" (.76-.99)	300 (1,334)	4" (10)	2.5" (6.4)	<b>022291018</b>
.37"-.48" (.94-1.22)	300 (1,334)	5" (13)	4" (10)	<b>022291019</b>
.46"-.58" (1.17-1.47)	400 (1,779)	6" (15)	5" (13)	<b>022291020</b>
.56"-.71" (1.42-1.80)	600 (2,669)	7" (18)	5" (13)	<b>022291021</b>
.69"-.88" (1.75-2.24)	800 (3,558)	8" (20)	6" (15)	<b>022291022</b>



Note: E-Eye length. M-Mesh length at nominal diameter.

Dimensions in Inches (mm)

## Support Grips for Fiber Optic Cable

Kellems Support Grips for fiber optic cable are specially designed to hold the cable weight as it hangs in a vertical or horizontal position. Fiber optic cable must be supported and Kellems Grips provide the support easily and economically.

These grips are made of high grade, non-magnetic tin-coated bronze strand. They are offered in universal bale or single eye configurations and are available in either closed mesh (for use where the cable end is available) or in split mesh, rod closing (for installation on existing cable runs or at specific locations).

## Split Support Grip Rod Closing Instructions

The stainless steel rod is a precise built-in feature which makes threading easy and fast. The strands of the mesh pass around the rod and match up with the strands from the opposite direction. The rod does not touch the cable at any point and therefore cannot cut the cable. Rod Closing Grips are reusable. They may be removed and reused as many times as desired.

## Fast to Install

- Step 1** Wrap the grip around the cable and thread the rod through the preformed loops with a corkscrew motion, using the curved end of the rod to engage the loops.
- Step 2** The action required is a steady push and twist simultaneously. The fingers of the left hand are used to bring the loops together just ahead of the hook on the end of the rod.
- Step 3** To remove, simply pull the rod out.





# Kellems® Wire Management Products

Kellems has wide experience with grips for use with fiber optic cable. As the industry leader in producing wire mesh grips for the stringent requirements of fiber optic applications, Kellems has developed several series of grips for use with fiber optic communications cable.

These grips include pulling grips with built in swivels, grips with steel ends to protect fragile cable ends, grips with low profiles to pull cables in tight places and the OPTISOK® an effective tool to place pre-terminated cables. Also available are grips to support fiber optic cable.

## Safety And Working Load Factors For Wire Mesh Grips

The broad application of Kellems grips on a wide variety of objects requires that adequate safety factors be used to establish working loads. The approximate breaking strength of a Kellems grip represents an average calculation based on data established from actual direct tension testing done in our engineering laboratories.

It is impossible to catalog or guarantee a safety factor suitable for all applications as operating conditions are never the same. The tension, diameter, movement, number of objects gripped, gripping surface, and the attachments used are just some of the factors which vary with each application. These factors, together with the effects of abrasion, corrosion, prior use or abuse and any other variables of a specific application, must be considered by the user and the grip replaced as appropriate. Where the conditions of the application are not well defined or known

## Select the Correct Fiber Optic Grip

Each Kellems grip is designed to work on a specific range of cable diameters.

- Step 1** Determine your cable outside diameter.
- Step 2** Find the grip size that encompasses your cable diameter.
- Step 3** Whenever possible, use a closed mesh that assembles over the cable end. If the cable end is not available, use a split mesh.
- Step 4** Where available, select an eye style that suits your needs.
- Step 5** Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to insure that the grip will be strong enough.

or where risk of injury to persons or property is involved, a greater safety factor should be utilized.

### IMPORTANT

**Under normal conditions, Kellems' recommended factor of safety is five for catalog listed pulling grips, and ten for catalog listed support grips.**

Any warranty as to quality, performance or fitness for use of grips is always premised on the condition that the published breaking strengths apply only to new, unused grips, and that such products are properly stored, handled, used, maintained and inspected by the user at a frequency appropriate for the use and condition of the grip.

For grip applications on materials other than those that the grips have been specifically designed for, consult the factory.

## Examples

Grip Style	Approx. Breaking Strength Lbs. (N)	Safety Factor	Max. Recommended Load Lbs. (N)	Catalog Number
Pulling Grips	2,500 (11,120)	5	500 (2,224)	<b>033291196</b>
Support Grips	400 (1,779)	10	40 (178)	<b>022291004</b>

The maximum recommended working load is the tension to be exerted on the grip in application with a margin of safety to take care of unforeseen and unusual circumstances.

It is the end-user's decision to determine how much of a safety factor is acceptable to for the application.

## Fiber Optic Grip Materials

Material	Features	Product Group
Galvanized steel wire	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Not subject to continuous outside environment</li> </ul>	<ul style="list-style-type: none"> <li>• Pulling grips</li> </ul>
Tin-coated bronze wire	<ul style="list-style-type: none"> <li>• Corrosion resistant for normal outside areas</li> <li>• Non-magnetic</li> <li>• Moderate strength</li> </ul>	<ul style="list-style-type: none"> <li>• Support grips</li> </ul>
Non-metallic braid	<ul style="list-style-type: none"> <li>• Superior flex life</li> <li>• Non-conductive</li> <li>• Corrosion resistant</li> <li>• Moderate strength</li> </ul>	<ul style="list-style-type: none"> <li>• OPTISOK®</li> </ul>

## Approvals

CSA Certification is indicated on appropriate product catalog pages.

## Hose Containment Grips

Kellems® Hose Containment Grips are used on high pressure, flexible hose lines to prevent the hose from whipping violently in the event of hose failure at the fitting. These grips will prevent serious injury to personnel and damage to equipment by holding the hose in place in the event of hose failure.

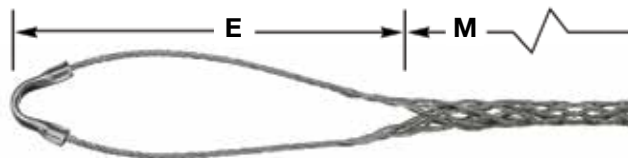
Kellems® patented Hose Containment Grips are made of stainless steel double weave mesh construction for high strength and come complete with hose clamps.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Types of Attachment

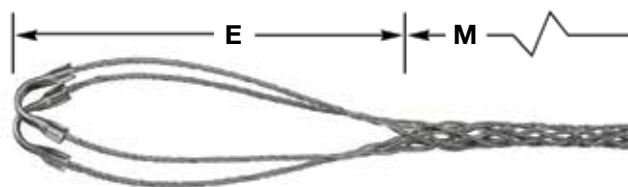
The six attachment methods shown below provide unlimited flexibility of attachment to meet any condition.



#### Type A

Single Eye, used where fastening is made with eyebolts or similar anchor terminations.

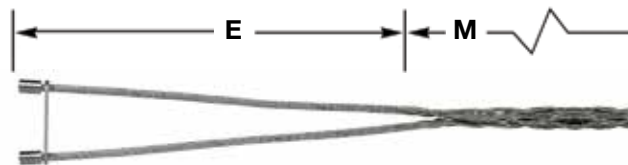
Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.38"-.69" (.97-1.75)	2,900 (12,900)	10" (25)	24" (61)	<b>014021285</b>
.50"-.94" (1.27-2.39)	3,400 (15,124)	10" (25)	24" (61)	<b>014021230</b>
1.00"-1.56" (2.54-3.96)	9,400 (41,813)	10" (25)	36" (91)	<b>014021453</b>
1.25"-1.94" (3.18-4.93)	14,400 (64,055)	48" (122)	60" (152)	<b>014021593</b>
2.75"-3.44" (6.99-8.74)	12,500 (55,603)	10" (25)	48" (122)	<b>014021524</b>



#### Type E

Double Eye Grip, used where fastening is made with eyebolts or similar anchor terminations.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.50"-.94" (1.27-2.39)	4,250 (18,905)	8" (20)	24" (61)	<b>014021224</b>
.75"-1.25" (1.91-3.18)	6,000 (26,689)	8" (20)	24" (61)	<b>014021223</b>
1.00"-1.56" (2.54-3.96)	8,000 (35,586)	8" (20)	24" (61)	<b>014021279</b>



#### Type U

Universal Bale Grip, used to fasten around a structure or closed eye.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.31"-.56" (.79-1.42)	2,100 (9,341)	12" (30)	24" (61)	<b>014021304</b>
.38"-.69" (.97-1.75)	2,600 (11,565)	12" (30)	24" (61)	<b>014021308</b>
.50"-.94" (1.27-2.39)	3,100 (13,789)	12" (30)	24" (61)	<b>014021138</b>
.50"-.94" (1.27-2.39)	3,100 (13,789)	24" (61)	24" (61)	<b>014021139</b>
.75"-1.25" (1.91-3.18)	4,500 (20,017)	12" (30)	24" (61)	<b>014021140</b>
1.00"-1.56" (2.54-3.96)	6,000 (26,689)	12" (30)	24" (61)	<b>014021142</b>
1.25"-1.94" (3.18-4.93)	6,000 (26,689)	12" (30)	36" (91)	<b>014021527</b>

Note: E- Eye length. M-Mesh length at nominal diameter.

It should be emphasized that Kellems® Hose Containment Grips are not to be used as a pressure reinforcing device for hose systems. These grips are custom made. Consult Technical Services for details.

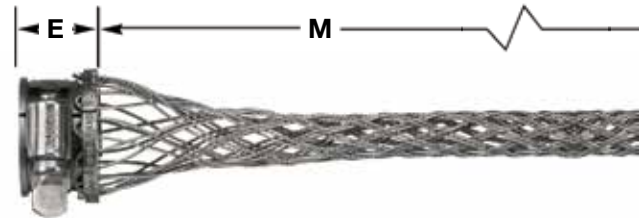
Dimensions in Inches (mm)

## Hose Containment Grips

Kellems Hose Containment Grips are supplied in diameters, length and attachments to meet individual requirements. Contact the Wiring Device-Kellems factory for specific information. These grips help meet OSHA Federal Register 1926-302 (b), 1926-603 (9), (10), JIC H-1-1973 (H13.11) and JIC P-1-1975 (P11.34) requirements.

### IMPORTANT

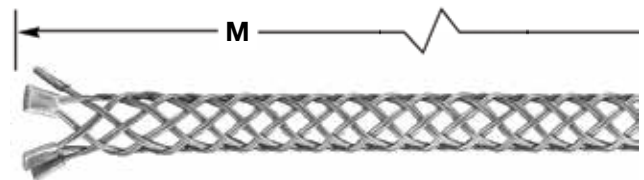
Read all breaking strength, safety and technical data relating to this product.



### Type F

Split fitting to fit AN-818 nuts. Fitting is positioned over nut and located with internal flange. A hose clamp is furnished and required to hold the fitting in correct position.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.38"-.69" (.97-1.75)	2,900 (12,900)	1" (2.54)	24" (61)	<b>014021208</b>
.50"-.94" (1.27-2.39)	3,400 (15,124)	1" (2.54)	24" (61)	<b>014021156</b>
.50"-.94" (1.27-2.39)	3,400 (15,124)	1" (2.54)	12" (30)	<b>014021185</b>
.50"-.94" (1.27-2.39)	3,400 (15,124)	1" (2.54)	12" (30)	<b>014021186</b>
.50"-.94" (1.27-2.39)	3,400 (15,124)	1" (2.54)	24" (61)	<b>014021216</b>
.75"-1.25" (1.91-3.18)	6,000 (26,689)	1" (2.54)	24" (61)	<b>014021113</b>
.75"-1.25" (1.91-3.18)	6,000 (26,689)	1" (2.54)	12" (30)	<b>014021120</b>
.75"-1.25" (1.91-3.18)	6,000 (26,689)	1" (2.54)	24" (61)	<b>014021301</b>
1.00"-1.56" (2.54-3.96)	6,000 (26,689)	1" (2.54)	24" (61)	<b>014021157</b>
1.00"-1.56" (2.54-3.96)	8,000 (35,586)	1.12" (2.84)	24" (61)	<b>014021366</b>
1.25"-1.94" (3.18-4.93)	8,000 (35,586)	1.12" (2.84)	36" (91)	<b>014021314</b>



### Type T

Tube Grips obtain complete grip coverage when hose is partially covered at either end with attachment grips. Type T-Grips fill in the exposed hose area between the two end grips. A telescoped assembly permits overlap to any degree desired beyond the 3" minimum.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs. (N)	E Inches (cm)	M Inches (cm)	Catalog Number
.50"-.94" (1.27-2.39)	3,400 (15,124)	—	24" (61)	<b>014021152</b>
.75"-1.25" (1.91-3.18)	6,000 (26,689)	—	24" (61)	<b>014021085</b>
1.44"-2.19" (3.66-5.56)	12,500 (55,603)	—	48" (122)	<b>014021075</b>

Note: E- Eye length. M-Mesh length at nominal diameter.



### Type Y

Threaded bolt (5/16 – 18 x 1 1/2" long), used to fasten through drilled holes in a plate.

Note: Available upon request.

It should be emphasized that Kellems® Hose Containment Grips are not to be used as a pressure reinforcing device for hose systems. Kellems® Hose Containment Grips are supplied in diameters, length and attachments to meet individual requirements. Contact Technical services for specific information.

Dimensions in Inches (mm)

## Strain Relief System Selection Chart

Kellems Strain Relief Grips are designed to prevent tension from being transmitted to joints and terminals on electrical cord, cable and conduit. In most applications, a Kellems grip for strain relief is stronger than the cable itself and gives much greater security than the use of a fitting alone. Kellems Grips for strain relief help make electrical systems safer, and save money by minimizing downtime from costly electrical failure due to cable pull-out. Kellems Grips also aid in compliance with the National Electric Code's terminal tension protection requirements.

## Select the Correct Grip for Strain Relief

Kellems Grips for strain relief are designed to fit on electrical cord, cable or flexible conduit.

**Step 1** Refer to the chart below to determine the grip style best suited for your application.





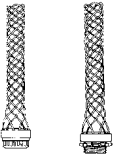


**Step 2** Determine your cable outside diameter or conduit size.

**Step 3** Locate environment—indoors or outdoors.

**Step 4** Decide if a liquidtight seal is required.

**Step 5** Select NPT size and fitting style.

## Strain Relief System Selection Chart

Grip Type	Application	Features	Cord or Conduit Range Inches (cm)	Type Fitting or Attachment	Page Number
<b>Deluxe Cord Aluminum Fitting/ Stainless Steel Grip</b>	 Outdoors or indoors where subjected to moisture or splash. Examples are crane and hoist pendant drop stations, hand tools, pumps and processing equipment.	Aluminum fittings, stainless steel mesh, neoprene oil-and-watertight bushing. Double-single weave.	.187"-3.250" (.47-8.25)	NPT, PG, and metric aluminum, male straight, 45° male, 90° male, female straight. Thread sizes 3/8"-3".	V-50, V-51, V-54
<b>Deluxe Cord Nylon Fitting/ Stainless Steel Grip</b>	 Outdoors or indoors where subjected to moisture or splash. Examples are marine and food processing equipment.	Nylon fitting, stainless steel mesh, double-single weave, neoprene oil-and-watertight bushing.	.187"-1.125" (.47-2.86)	NPT nylon, male straight, 90° male. Thread sizes 1/2"-1".	V-52
<b>Deluxe Cord Nylon Fitting/ Non-metallic Grip</b>	 Indoor or outdoors. Provides liquidtight seal, where exposed to moisture. Excellent for oil refining and chemical processing.	Non-metallic grip is corrosion resistant, nonconductive and provides superior gripping and flexing benefits. Neoprene liquidtight bushing. Nylon fitting.	.187"-1.000" (.47-2.54)	NPT nylon, straight male, thread sizes 3/8"-1" 90° male, thread sizes 1/2"-1".	V-53
<b>Deluxe Cord Stainless Steel Fitting And Grip</b>	 Indoor or outdoor use where exposed to moisture. Very strong for heavy abuse areas such as drilling platforms, steel mills and mines.	Stainless steel fitting and grip for strength. Neoprene liquidtight bushing. Double/single weave grip.	.187"-1.000" (.47-2.54)	Straight male Only with NPT Thread sizes 1/2"-1".	V-53
<b>Dust-Tight Strain Relief</b>	 Indoor use only for wiring of electrical enclosures, machine tools, portable power tools, bus drop cable systems.	Neoprene gasket—seals out chips, dirt, dust. One piece design with galvanized steel mesh. Insulating bushing available. Zinc-plated steel locknut.	.240"-2.450" (.61-6.22)	Straight male NPS or NPT	V-55
<b>Liquidtight Flexible Conduit Grip (Metal and Non-Metallic)</b>	 Wiring of machine tools, electrical enclosures, motors and systems where metallic liquidtight flexible conduit is subjected to vibration, flexure, motion or strain.	Stainless steel mesh, liquidtight fittings. Sealing "O" rings (optional). Choice of fittings.	.375"-4.000" trade sizes	NPT 1/2"-4", Hubbell fittings, Male straight, 45° male, 90° male, female straight.	V-58, V-59
<b>Liquidtight Flexible Conduit Grip (UL Type A)</b>	 Wiring or machine tools, electrical enclosures, motors and systems where conduit is subject to vibration and strain.	Stainless steel mesh, liquidtight fittings with "O" ring and locknut.	.375"-2.008" trade size male	NPT steel, Hubbell fittings, straight male, 90° Thread sizes 1/2"-2".	V-60

# Kellems® Wire Management Products

## Features and Benefits

### Deluxe Cord Grip

Deluxe cord grips help to alleviate pull tension on terminals, control cable arc-of-bend, prevent cord pull-out and provide a liquidtight seal. They are offered with either aluminum, stainless steel or nylon fittings in a variety of configurations and NPT thread sizes. Additionally, a completely non-metallic product is available.

### Application

Specific uses are: wiring enclosures, pendant stations, hand tools, construction, processing and material handling equipment, pumps, motors and machine tools.

### Benefits

- Helps to prevent cable pull-out
- Controls cable arc-of-bend
- Provides a liquidtight seal
- Corrosion resistant stainless steel mesh with aluminum collar



07401008



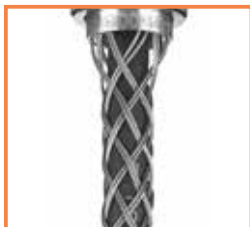
#### Mesh Grip

- Stainless steel mesh is corrosion resistant; can be used inside or outside
- Eliminates cable or flexible conduit pull out and reduces costly downtime
- Endless weave provides easy cable/flexible conduit installation



#### Deluxe Cord Grips

- An NPT and PG threaded body allows easy attachment to either threaded hub or knock-out in box
- A liquidtight fitting is available with both cable and conduit fittings; prevents liquids from running through the fitting into the enclosure



#### Cable Protection

- Multiweave grip gives cable arc-of-bend control minimizing cable damage and extending cable life
- It is the strongest strain relief device available; meets and exceeds all code requirements; prevents cable/conduit pull-out



#### Comprehensive Offering

- Hubbell offers a full line of deluxe cord grips with various material finishes
- Deluxe cord grips are used indoors or outdoors to help prevent cord pull-out and where cables are subjected to moisture, splash or submersion



## Deluxe Cord Grips

Aluminum Fittings, Stainless Steel Mesh, Liquidtight for Insulated Cables

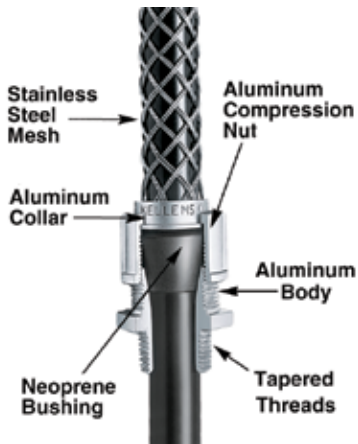
### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Straight Male Thread



NPT Thread Size Inches	Grip Diameter Range Inches (cm)	Form Size	Catalog Number
3/8	.250"-.312" (.63-.79)	F1	07401001
	.312"-.375" (.79-.95)		07401002
	.375"-.437" (.95-1.11)		07401003
1/2	.187"-.250" (.47-.63)	F2	07401004
	.250"-.375" (.63-.95)		07401006
	.375"-.500" (.95-1.27)		07401008
1/2	.500"-.625" (1.27-1.59)	F3	07401010
	.625"-.750" (1.59-1.90)		074011247*
	.750"-.875" (1.90-2.22)		074011248*
3/4	.187"-.250" (.47-.63)	F2	07401011
	.250"-.375" (.63-.95)		07401013
	.375"-.500" (.95-1.27)		07401015
3/4	.500"-.625" (1.27-1.59)	F3	07401017
	.625"-.750" (1.59-1.90)		07401018
	.750"-.875" (1.90-2.22)		074011249*
1	.375"-.500" (.95-1.27)	F4	074011195
	.500"-.625" (1.27-1.59)		07401019
	.625"-.750" (1.59-1.90)		07401021
1	.750"-.875" (1.90-2.22)	F5	07401023
	.875"-.1.000" (2.22-2.54)		07401025
	1.000"-.1.125" (2.54-2.86)		074011250*
1	1.125"-.1.250" (2.86-3.17)	F5	074011028*
	1.250"-.1.375" (3.17-3.49)		074011029*
	.750"-.875" (1.90-2.22)		074011251
1 1/4	.875"-.1.000" (2.22-2.54)	F5	07401026
	1.000"-.1.125" (2.54-2.86)		07401027
	1.125"-.1.250" (2.86-3.17)		07401028
1 1/2	1.250"-.1.375" (3.17-3.49)	F5	07401028
	.750"-.875" (1.90-2.22)		074011252
	.875"-.1.000" (2.22-2.54)		07401029
1 1/2	1.000"-.1.125" (2.54-2.86)	F5	07401030
	1.125"-.1.250" (2.86-3.17)		07401031
	1.250"-.1.375" (3.17-3.49)		07401032
1 1/2	1.312"-.1.437" (3.33-3.65)	F6	074011253
	1.437"-.1.562" (3.65-3.97)		074011254*
	1.562"-.1.687" (3.97-4.28)		074011255*
1 1/2	1.687"-.1.812" (4.28-4.60)	F6	074011256*
	1.750"-.1.875" (4.44-4.76)		074011257*
	1.250"-.1.375" (3.17-3.49)		074011258
2	1.312"-.1.437" (3.33-3.65)	F6	074011259
	1.437"-.1.562" (3.65-3.97)		07401033
	1.562"-.1.687" (3.97-4.28)		07401034
2	1.687"-.1.812" (4.28-4.60)	F7	07401035
	1.750"-.1.875" (4.44-4.76)		074011260
	1.812"-.1.937" (4.60-4.92)		074011261
2	1.937"-.2.062" (4.92-5.24)	F7	074011262*
	2.062"-.2.187" (5.24-5.55)		074011263*
	2.187"-.2.312" (5.55-5.87)		074011264*
2 1/2	2.312"-.2.437" (5.87-6.19)	F7	074011265*
	1.688"-.1.812" (4.29-4.60)		074011030
	1.812"-.1.937" (4.60-4.92)		074011031
2 1/2	1.937"-.2.062" (4.92-5.24)	F7	074011032
	2.062"-.2.187" (5.24-5.55)		074011033
	2.187"-.2.312" (5.55-5.87)		074011034
3	2.312"-.2.437" (5.87-6.19)	F7	074011266*
	1.937"-.2.062" (4.92-5.24)		074011036
	2.062"-.2.187" (5.24-5.55)		074011037
3	2.187"-.2.312" (5.55-5.87)	F8	074011038
	2.312"-.2.437" (5.87-6.19)		074011039
	2.437"-.2.625" (6.19-6.67)		074011186
3	2.625"-.2.812" (6.67-7.14)	F8	074011187
	2.812"-.3.000" (7.14-7.62)		074011188
	3.000"-.3.250" (7.62-8.25)		074011189*



Note: Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 of the National Electric Code Sections 501.10(b)(2), 502.10(a)(2), 502.10(b)(2), 503.10(a)(2) and 503.10(b).  
\*Cable jacket may have to be stripped to pass through connector body.

Dimensions in Inches (mm)

## Deluxe Cord Grips

Aluminum Fittings, Stainless Steel Mesh, Liquidtight for Insulated Cables

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Straight Female Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)		Form Size	Catalog Number
½	.375"-.500"	(.95-1.27)	F2	<b>07401043</b>
	.500"-.625"	(1.27-1.59)		<b>07401045</b>
¾	.500"-.625"	(1.27-1.59)	F2	<b>07401052</b>
¾	.625"-.750"	(1.59-1.90)	F4	<b>07401053</b>

### 90° Male Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)		Form Size	Catalog Number
¾	.250"-.312"	(.63-.79)	F1	<b>07401071</b>
	.312"-.375"	(.79-.95)		<b>07401072</b>
	.375"-.437"	(.95-1.11)		<b>07401073</b>
½	.187"-.250"	(.47-.63)	F2	<b>07401074</b>
	.250"-.375"	(.63-.95)		<b>07401076</b>
	.375"-.500"	(.95-1.27)		<b>07401078</b>
¾	.500"-.625"	(1.27-1.59)	F3	<b>07401080*</b>
	.375"-.500"	(.95-1.27)		<b>07401081</b>
	.500"-.625"	(1.27-1.59)		<b>07401083</b>
1	.625"-.750"	(1.59-1.90)	F4	<b>07401084*</b>
	.750"-.875"	(1.90-2.22)		<b>07401085</b>
	.750"-.875"	(1.90-2.22)		<b>07401087</b>
1	.875"-.1.000"	(2.22-2.54)	F4	<b>07401089</b>
	.875"-.1.000"	(2.22-2.54)		<b>07401091*</b>
	1.000"-.1.125"	(2.54-2.86)		<b>074011229*</b>
1¼	.750"-.875"	(1.90-2.22)	F5	<b>074011230</b>
	.875"-.1.000"	(2.22-2.54)		<b>07401137</b>
	1.000"-.1.125"	(2.54-2.86)		<b>07401108</b>
1½	1.125"-.1.250"	(2.86-3.17)	F5	<b>074011042*</b>
	1.000"-.1.125"	(2.54-2.86)		<b>074011045</b>
	1.125"-.1.250"	(2.86-3.17)		<b>074011046</b>
2	1.250"-.1.375"	(3.17-3.49)	F5	<b>074011047</b>
	1.312"-.1.437"	(3.33-3.65)		<b>074011233</b>
	1.437"-.1.562"	(3.65-3.97)		<b>074011244</b>
2	1.687"-.1.812"	(4.28-4.60)	F6	<b>074011246</b>
	1.687"-.1.812"	(4.28-4.60)		<b>074011246</b>
	1.750"-.1.875"	(4.44-4.76)		<b>074011234*</b>

### 45° Male Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)		Form Size	Catalog Number
½	.250"-.375"	(.63-.95)	F2	<b>074011236</b>
	.375"-.500"	(.95-1.27)		<b>074011021</b>
	.500"-.625"	(1.27-1.59)		<b>074011237*</b>
¾	.500"-.625"	(1.27-1.59)	F3	<b>074011049</b>
	.625"-.750"	(1.59-1.90)		<b>074011051*</b>
	.750"-.875"	(1.90-2.22)		<b>074011239*</b>
1	.625"-.750"	(1.59-1.90)	F4	<b>074011055</b>
	.750"-.875"	(1.90-2.22)		<b>074011057</b>
	.875"-.1.000"	(2.22-2.54)		<b>074011199*</b>
1¼	1.000"-.1.125"	(2.54-2.86)	F5	<b>074011059</b>
	1.125"-.1.250"	(2.86-3.17)		<b>074011060</b>

Note: Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 of the National Electric Code Sections 501.10(b)(2), 502.10(a)(2), 502.10(b)(2), 503.10(a)(2) and 503.10(b).

\*Cable jacket may have to be stripped to pass through connector body.



Dimensions in Inches (mm)

## Deluxe Cord Grips

Nylon Fittings, Stainless Steel Mesh, Liquidtight for Insulated Cables

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Straight Male Thread

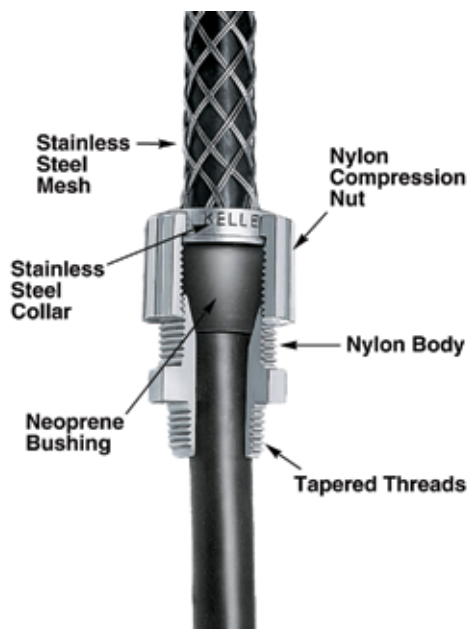
NPT Thread Size Inches	Grip Diameter Range Inches (cm)	Form Size	Catalog Number
1/2	.187"-.250" (.47-.63)	F2	<b>074011331</b>
	.250"-.375" (.63-.95)		<b>074011332</b>
	.375"-.500" (.95-1.27)		<b>074011333</b>
	.500"-.625" (1.27-1.59)		<b>074011334*</b>
3/4	.375"-.500" (.95-1.27)	F3	<b>074011335</b>
	.500"-.625" (1.27-1.59)		<b>074011336</b>
	.625"-.750" (1.59-1.90)		<b>074011337</b>
1	.750"-.875" (1.90-2.22)	F4	<b>074011338*</b>
	.625"-.750" (1.59-1.90)		<b>074011341</b>
	.750"-.875" (1.90-2.22)		<b>074011342</b>
	.875"-1.000" (2.22-2.54)		<b>074011343</b>
	1.000"-1.125" (2.54-2.86)		<b>074011344*</b>



### 90° Male Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)	Form Size	Catalog Number
1/2	.250"-.375" (.63-.95)	F2	<b>074011346</b>
	.375"-.500" (.95-1.27)		<b>074011347</b>
	.500"-.625" (1.27-1.59)		<b>074011348*</b>
3/4	.375"-.500" (.95-1.27)	F3	<b>074011349</b>
	.500"-.625" (1.27-1.59)		<b>074011350</b>
	.625"-.750" (1.59-1.90)		<b>074011351*</b>

Note: Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 of the National Electric Code Sections 501.10(b)(2), 502.10(a)(2), 502.10(b)(2), 503.10(a)(2) and 503.10(b).  
\*Cable jacket may have to be stripped to pass through connector body.



Dimensions in Inches (mm)

## Deluxe Cord Grips

Nylon Fittings, Non-metallic Mesh, and Stainless Steel Fittings, Stainless Steel Mesh, Liquidtight for Insulated Cables

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Nylon Fittings Non-metallic Mesh, Liquidtight for Insulated Cables Straight Male Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)		Form Size	Catalog Number
3/8	.187"-.250"	(.47-.63)	F1	<b>CG304NM</b> <b>CG305NM</b> <b>CG306NM</b>
	.250"-.312"	(.63-.79)		
	.312"-.375"	(.79-.95)		
1/2	.187"-.250"	(.47-.63)	F2	<b>CG404NM</b> <b>CG406NM</b> <b>CG408NM</b>
	.250"-.375"	(.63-.95)		
	.375"-.500"	(.95-1.27)		
3/4	.375"-.500"	(.95-1.27)	F3	<b>CG608NM</b> <b>CG610NM</b> <b>CG612NM</b>
	.500"-.625"	(1.27-1.59)		
	.625"-.750"	(1.59-1.90)		
1	.500"-.625"	(1.27-1.59)	F4	<b>CG810NM</b> <b>CG812NM</b> <b>CG814NM</b> <b>CG816NM</b>
	.625"-.750"	(1.59-1.90)		
	.750"-.875"	(1.90-2.22)		
	.875"-.1.000"	(2.22-2.54)		



### 90° Male Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)		Form Size	Catalog Number
1/2	.250"-.375"	(.63-.95)	F2	<b>CG40690NM</b> <b>CG40890NM</b>
	.375"-.500"	(.95-1.27)		
3/4	.375"-.500"	(.95-1.27)	F3	<b>CG60890NM</b> <b>CG61090NM</b> <b>CG61290NM*</b>
	.500"-.625"	(1.27-1.59)		
	.625"-.750"	(1.59-1.90)		
1	.625"-.750"	(1.59-1.90)	F4	<b>CG81290NM</b> <b>CG81490NM</b>
	.750"-.875"	(1.90-2.22)		



### Stainless Steel Fittings, Stainless Steel Mesh, Liquidtight for Insulated Cables Straight Male Thread

NPT Thread Size Inches	Grip Diameter Range Inches (cm)		Form Size	Catalog Number
1/2	.187"-.250"	(.47-.63)	F2	<b>CG404SST</b> <b>CG406SST</b> <b>CG408SST</b> <b>CG410SST</b>
	.250"-.375"	(.63-.95)		
	.375"-.500"	(.95-1.27)		
	.500"-.625"	(1.27-1.59)		
3/4	.375"-.500"	(.95-1.27)	F2	<b>CG608SST</b> <b>CG610SST</b>
	.500"-.625"	(1.27-1.59)		
3/4	.625"-.750"	(1.59-1.90)	F3	<b>CG612SST</b> <b>CG614SST</b>
	.750"-.875"	(1.90-2.22)		
1	.500"-.625"	(1.27-1.59)	F4	<b>CG810SST</b> <b>CG812SST</b> <b>CG814SST</b> <b>CG816SST</b>
	.625"-.750"	(1.59-1.90)		
	.750"-.875"	(1.90-2.22)		
	.875"-.1.000"	(2.22-2.54)		



Note: Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 of the National Electric Code Sections 501.10(b)(2), 502.10(a)(2), 502.10(b)(2), 503.10(a)(2) and 503.10(b).  
\*Cable jacket may have to be stripped to pass through connector body.

Dimensions in Inches (mm)

## PG and Metric Threaded Deluxe Cord Grips

Aluminum Fittings, Stainless Steel Mesh, Liquidtight for Insulated Cables

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Straight PG\* Male Thread

Hub Size	Cord Diameter Range		Form Size	Catalog Number	
	Inches	(cm)			
PG16	.500"	-.625"	(1.27-1.59)	F2	<b>074PG16010</b>
PG21	.500"	-.625"	(1.27-1.59)	F2	<b>074PG21010</b>
PG21	.625"	-.750"	(1.59-1.90)	F3	<b>074PG211247</b>
	.750"	-.875"	(1.90-2.22)		<b>074PG211248</b>
PG29	.625"	-.750"	(1.59-1.90)	F4	<b>074PG29021</b>
	.750"	-.875"	(1.90-2.22)		<b>074PG29023</b>
	.875"	-1.000"	(2.22-2.54)		<b>074PG29025</b>
PG29	1.125"	-1.250"	(2.86-3.17)	F5	<b>074PG291028*</b>
PG36	1.125"	-1.250"	(2.86-3.17)	F5	<b>074PG36028*</b>

Note: \*Panzergewinde.



### Straight Metric Male Thread

Hub Size	Cord Diameter Range		Form Size	Catalog Number	
	Inches	(cm)			
M20	.500"	-.625"	(1.27-1.59)	F2	<b>074M20010</b>
M25	.625"	-.750"	(1.59-1.90)	F3	<b>074M251247</b>
	.750"	-.875"	(1.90-2.22)		<b>074M251248</b>
M25	.500"	-.625"	(1.27-1.59)	F2	<b>074M25017</b>
	.625"	-.750"	(1.59-1.90)		<b>074M32021</b>
	.750"	-.875"	(1.90-2.22)		<b>074M32023</b>
M32	.875"	-1.000"	(2.24-2.54)	F4	<b>074M32025</b>
	1.000"	-1.125"	(2.54-2.86)		<b>074M321250</b>
M32	1.125"	-1.250"	(2.86-3.17)	F5	<b>074M321028</b>

Note: Kellems® Deluxe Cord Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 of the National Electric Code Sections 501.10(b)(2), 502.10(a)(2), 502.10(b)(2), 503.10(a)(2) and 503.10(b).  
\*Cable jacket may have to be stripped to pass through connector body.

### Specifications

Material	Temperature Range
Aluminum (Body)	-30°F to +240°F (-34°C to +115°C).
Stainless Steel (Mesh)	-30°F to +240°F (-34°C to +115°C).
Neoprene (Bushings)	-30°F to +240°F (-34°C to +115°C).
Hazardous Locations	Suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 N.E.C. Reference 501.10(b)(2), 502.10(a)(2), 502.10(b)(2), 503.10(a)(2) and 503.10(b).
Approvals	
Deluxe Cord Grips	UL Listed in accordance with Standard 514B for indoor/outdoor use. UL Control numbers 898D and 899D.
Wet Locations	Suitable for use in wet locations when used with a listed sealing ring between box and fitting.



## Dust-Tight Strain Relief Grips

Aluminum Fittings, Galvanized Steel Mesh for Insulated Cables

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Non-Insulated, Wide Range Strain Relief

Thread Size	Cord Diameter Range Inches (cm)	Mesh Length @ Nom. Dia. Inches (cm)	Catalog Number
½ NPT	.24"-.32" (.61-.81)	3.25" (8.25)	<b>073031200</b>
	.32"-.43" (.81-1.09)	3.75" (9.52)	<b>073031201</b>
	.43"-.54" (1.09-1.37)	4.75" (12.06)	<b>073031202</b>
¾ NPT	.54"-.73" (1.37-1.85)	6.5" (16.51)	<b>073031203A</b>
1 NPT	.73"-.97" (1.85-2.46)	7" (17.78)	<b>073031204</b>
1¼ NPT	.97"-1.25" (2.46-3.17)	9" (22.86)	<b>073031205</b>
PG29*	.73"-.97" (1.85-2.46)	7" (17.78)	<b>073PG291204</b>

Note: \*Panzergewinde.



### Insulated, Wide Range Strain Relief with Insulating Bushing

Thread Size	Cord Diameter Range Inches (cm)	Mesh Length @ Nom. Dia. Inches (cm)	Dim. A Inches (cm)	Min. Space Between Grips Inches (cm)	Catalog Number
½ NPS	.24"-.32" (.61-.81)	3.25" (8.25)	1" (2.54)	1.25" (3.17)	<b>073031206</b>
	.32"-.43" (.81-1.09)	3.75" (9.52)	1" (2.54)	1.25" (3.17)	<b>073031207</b>
	.43"-.54" (1.09-1.37)	4.75" (12.06)	1" (2.54)	1.25" (3.17)	<b>073031208</b>
¾ NPS	.54"-.73" (1.37-1.85)	6.5" (16.51)	1" (2.54)	1.5" (3.81)	<b>073031209A</b>
1 NPS	.73"-.97" (1.85-2.46)	7" (17.78)	1.313" (3.02)	1.75" (4.44)	<b>073031210</b>
1¼ NPS	.97"-1.25" (2.46-3.17)	9" (22.86)	1.313" (3.02)	2.25" (5.71)	<b>073031211</b>
1½ NPT	1.25"-1.50" (3.17-3.81)	11.75" (29.84)	1.313" (3.02)	2.5" (6.35)	<b>073031212</b>
2 NPT	1.50"-1.70" (3.81-4.32)	13.25" (33.65)	1.375" (3.49)	3.25" (8.25)	<b>073031213</b>
2½ NPT	1.70"-2.00" (4.32-5.08)	13.5" (34.29)	1.5" (3.81)	3.625" (9.21)	<b>073031214</b>
	2.00"-2.45" (5.08-6.22)	13.75" (34.92)	1.5" (3.81)	3.625" (9.21)	<b>073031215</b>



Dimensions in Inches (mm)

## I-Grips for Insulated Cables

Kellems® I-Grips are made of high strength, plastic coated galvanized steel strand. They are offered in six sizes to fit all cable diameters used with Hubbell Insulgrrip®. Kellems I-Grips will control cable arc-of-bend and reduce high pull tensions from being transmitted to the wiring terminals.

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Application

Kellems® I-Grips will fit 2, 3, 4 and 5 wire Hubbell Insulgrrip® plugs and connector bodies. The eye tabs fit under the nylon cord clamp and the screws slide through the eyelets, securing the grip in place.

I-Grips can be used on any Insulgrrip cord set which requires cable, arc-of-bend control or heavy duty strain relief. Cord sets used at in-door construction sites or for plant maintenance jobs are examples.

These grips are for indoor use only.

### Benefits

- Easily attached to Insulgrrip plugs and connector bodies
- Controls cable arc-of-bend
- Provides heavy-duty strain relief
- Fits all sizes



### I-Grips

Cable Diameter Range Inches (cm)	E Inches (cm)	M Inches (cm)	Catalog Number
.32"-.43" (.81-1.09)	1.25" (3.17)	4" (10.16)	<b>07310001</b>
.43"-.56" (1.09-1.42)	1.25" (3.17)	4.75" (12.06)	<b>07310002</b>
.56"-.73" (1.42-1.85)	1.50" (3.81)	6" (15.24)	<b>07310003</b>
.73"-.85" (1.85-2.16)	1.50" (3.81)	6.5" (16.51)	<b>07310004</b>
.85"-1.00" (2.16-2.54)	1.50" (3.81)	8" (20.32)	<b>07310005</b>
1.00"-1.25" (2.54-3.17)	1.50" (3.81)	10" (25.40)	<b>07310006</b>

Note: E-Eye length. M-Mesh length at nominal diameter.

Eyelet hole diameter .203" (.52cm).

I-Grips should not be used on Insulgrrip devices when "Seal-Tite®" weatherproof covers are to be installed.

## Thread Adapters for Multi-Pin Connectors

Kellems® Thread Adapters are devices formatting AN-MS connectors and other multi-pin connectors to Kellems grips with NPT threaded fittings. They are made of aluminum with internal threads and replace the connector cord clamp. These adapters permit the installation of Kellems Grips, to prevent cable or conduit pull-out and control arc-of-bend.

### Applications

Thread adapters allow the installation of Kellems® Grips on multi-pin connectors at electrical consoles, mobile equipment, control switches, assembly equipment and testing machines.

### Benefits

- Easy installation
- Allows the use of Kellems grips
- Extends connector and cable life



Thread Adapter  
**091041006**

### Thread Adapters for Multi-Pin Connectors

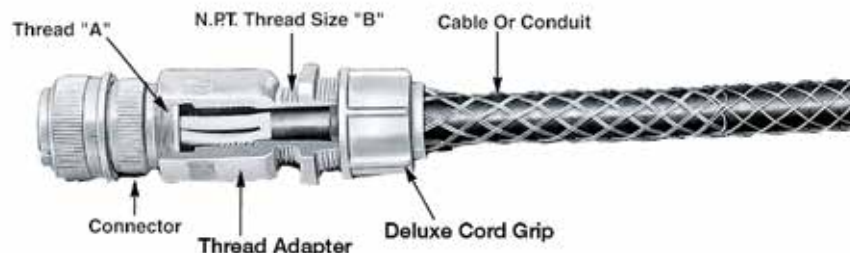
Thread Adapters					Deluxe Cord Grips		Strain Relief Grips		Liquidtight Conduit Grips (Insulated Throat)
AN-MS Connector Size**	AN-MS Cable Clamp Number***	Thread Size A Inch	NPT Thread Size B	Catalog Number	Cable Diameter Range Inches (cm)	Catalog Number	Cable Diameter Range Inches (cm)	Catalog Number	Catalog Number
8S, 10S	3057-3	1/2" x 28"		<b>091041000</b>	.250"-.312" (.63-.79)	07401001			
10SL, 12, 12S	3057-4	5/8" x 24"	3/8"	<b>091041001</b>	.312"-.375" (.79-.95)	07401002			
14, 14S	3057-6	3/4" x 20"		<b>091041002</b>	.375"-.437" (.95-1.11)	07401003			
14, 14S	3057-6	3/4" x 20"		<b>091041003</b>	.187"-.250" (.47-.63)	07401004	.24"-.32" (.61-.81)	073031200	
16, 16S	3057-8	7/8" x 20"	1/2"	<b>091041004</b>	.250"-.375" (.63-.95)	07401006	.32"-.43" (.81-1.09)	073031201	074093512
18	3057-10	1" x 20"		<b>091041006</b>	.375"-.500" (.95-1.27)	07401008	.43"-.54" (1.09-1.37)	073031202	
					.500"-.625" (1.27-1.59)	07401010*			
16, 16S	3057-8	7/8" x 20"		<b>091041005</b>	.187"-.250" (.47-.63)	07401011			
18	3057-10	1" x 20"	3/4"	<b>091041007</b>	.250"-.375" (.63-.95)	07401013			
20, 22	3057-12	1 1/16" x 18"		<b>091041008</b>	.375"-.500" (.95-1.27)	07401015	.54"-.74" (1.37-1.85)	073031203	074093513
					.500"-.625" (1.27-1.59)	07401017			
					.625"-.750" (1.59-1.90)	07401018			
20, 22	3057-12	1 1/16" x 18"		<b>091041009</b>	.375"-.500" (.95-1.27)	074011195			
24, 28	3057-16	1 1/16" x 18"		<b>091041010</b>	.500"-.625" (1.27-1.59)	07401019			
32	3057-20	1 3/4" x 18"	1	<b>091041012</b>	.625"-.750" (1.59-1.90)	07401021	.73"-.97" (1.85-2.46)	073031204	074093514
36	3057-24	2" x 18"		<b>091041015</b>	.750"-.875" (1.90-2.22)	07401023			
					.875"-.1.000" (2.22-2.54)	07401025			
24, 28	3057-16	1 1/16" x 18"		<b>091041011</b>	.750"-.875" (1.90-2.22)	074011251			
32	3057-20	1 3/4" x 18"	1 1/4"	<b>091041013</b>	.875"-.1.000" (2.22-2.54)	07401026	.97"-.1.25" (2.46-3.17)	073031205	074093515
36	3057-24	2" x 18"		<b>091041016</b>	1.000"-.1.125" (2.54-2.86)	07401027			
					1.125"-.1.375" (2.86-3.17)	07401028			
32	3057-20	1 3/4" x 18"		<b>091041014</b>	.875"-.1.000" (2.22-2.54)	07401029			
36	3057-24	2" x 18"	1 1/2"	<b>091041017</b>	1.000"-.1.125" (2.54-2.86)	07401030			074093516
40	3057-28	2 1/4" x 16"		<b>091041019</b>	1.125"-.1.250" (2.86-3.17)	07401031			
					1.250"-.1.375" (3.17-3.49)	07401032			

Note: \*Cable jacket may have to be stripped to pass through connector body.

\*\*Number stamped on connector shell.

\*\*\*Number stamped on clamp shell.

### Example



Dimensions in Inches (mm)

## Strain Relief for Liquidtight Conduit

Steel Fitting, Stainless Steel Mesh for Liquidtight Metal Conduit and PolyTuff® I Non-Metallic Conduit

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Benefits

- Helps prevent conduit pull-out and damage at the fitting
- Reduces equipment downtime

### Straight With Male Fitting



Conduit Trade Size Inches	NPT Fitting Size Inches	Mesh Length Inches (cm)	Catalog Number (Insulated)	Catalog Number (Non-insulated)
3/8	1/2	3" (7.62)	<b>074093511</b>	<b>074093401</b>
1/2	1/2	3.5" (8.89)	<b>074093512</b>	<b>074093402</b>
3/4	3/4	4" (10.16)	<b>074093513</b>	<b>074093403</b>
1	1	5" (12.70)	<b>074093514</b>	<b>074093404</b>
1 1/4	1 1/4	6" (15.24)	<b>074093515</b>	<b>074093405</b>
1 1/2	1 1/2	6.75" (17.14)	<b>074093516</b>	<b>074093406</b>
2	2	8" (20.32)	<b>074093518</b>	<b>074093408</b>
2 1/2	2 1/2	9.75" (24.76)	<b>074093520</b>	<b>074093410</b>
3	3	11" (27.94)	<b>074093522</b>	<b>074093412</b>
4	4	14" (35.56)	<b>074093526</b>	—

### 90° Angle With Male Fitting



Conduit Trade Size Inches	NPT Fitting Size Inches	Mesh Length Inches (cm)	Catalog Number (Insulated)	Catalog Number (Non-insulated)
3/8	1/2	3" (7.62)	<b>074093541</b>	<b>074093421</b>
1/2	1/2	3.5" (8.89)	<b>074093542</b>	<b>074093422</b>
3/4	3/4	4" (10.16)	<b>074093543</b>	<b>074093423</b>
1	1	5" (12.70)	<b>074093544</b>	<b>074093424</b>
1 1/4	1 1/4	6" (15.24)	<b>074093545</b>	<b>074093425</b>
1 1/2	1 1/2	6.75" (17.14)	<b>074093546</b>	<b>074093426</b>
2	2	8" (20.32)	<b>074093548</b>	<b>074093428</b>
2 1/2	2 1/2	9.75" (24.76)	<b>074093550</b>	—
3	3	11" (27.94)	<b>074093552</b>	—

Note: For use with Liquidtight Metal conduit and PolyTuff® I Non-Metallic conduit.

## Strain Relief for Liquidtight Conduit

Steel Fitting, Stainless Steel Mesh for Liquidtight Metal Conduit and PolyTuff® I Non-Metallic Conduit

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.

### Straight With Chase Fitting

Conduit Trade Size Inches	NPT Fitting Size Inches	Mesh Length Inches (cm)	Catalog Number
1/2	1/2	3.5" (8.89)	<b>07406079</b>
3/4	3/4	4" (10.16)	<b>07406080</b>
1	1	5" (12.70)	<b>07406081</b>
1 1/4	1 1/4	6" (15.24)	<b>07406082</b>
1 1/2	1 1/2	6.75" (17.14)	<b>07406083</b>



### 45° Angle With Male Fitting

Conduit Trade Size Inches	NPT Fitting Size Inches	Mesh Length Inches (cm)	Catalog Number (Insulated)	Catalog Number (Non-insulated)
3/8	1/2	3" (7.62)	<b>074093561</b>	<b>074093441</b>
1/2	1/2	3.5" (8.89)	<b>074093562</b>	<b>074093442</b>
3/4	3/4	4" (10.16)	<b>074093563</b>	<b>074093443</b>
1	1	5" (12.70)	<b>074093564</b>	<b>074093444</b>
1 1/4	1 1/4	6" (15.24)	<b>074093565</b>	<b>074093445</b>
1 1/2	1 1/2	6.75" (17.14)	<b>074093566</b>	<b>074093446</b>
2	2	8" (20.32)	<b>074093568</b>	<b>074093448</b>

Note: For use with Liquidtight Metal conduit and PolyTuff® I Non-Metallic conduit.



Dimensions in Inches (mm)



## Strain Relief for Liquidtight Conduit

Steel Fitting, Stainless Steel Mesh for UL Type A Liquidtight Conduit

### IMPORTANT

Read all breaking strength, safety and technical data relating to this product.



### Straight Male Hubbell Fitting

Conduit Trade Size Inches	NPT Fitting Size Inches	Mesh Length Inches (cm)	Catalog Number
3/8	1/2	3.75" (9.52)	<b>H038CNK</b>
1/2	1/2	4.5" (11.43)	<b>H050CNK</b>
3/4	3/4	6.25" (15.87)	<b>H075CNK</b>
1	1	7.5" (19.05)	<b>H100CNK</b>
1 1/4	1 1/4	9" (22.86)	<b>H125CNK</b>
1 1/2	1 1/2	13.5" (34.29)	<b>H150CNK</b>
2	2	14.5" (36.83)	<b>H200CNK</b>



### 90° Male Hubbell Fitting

Conduit Trade Size Inches	NPT Fitting Size Inches	Mesh Length Inches (cm)	Catalog Number
3/8	1/2	3.75" (9.52)	<b>H0389CNK</b>
1/2	1/2	4.5" (11.43)	<b>H0509CNK</b>
3/4	3/4	6.25" (15.87)	<b>H0759CNK</b>
1	1	7.5" (19.05)	<b>H1009CNK</b>
1 1/4	1 1/4	9" (22.86)	<b>H1259CNK</b>
1 1/2	1 1/2	13.5" (34.29)	<b>H1509CNK</b>
2	2	14.5" (36.83)	<b>H2009CNK</b>

Dimensions in Inches (mm)

## Wire Mesh Grip Materials

Material	Features	Product Group
Galvanized steel wire	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Not subject to continuous outside environment</li> </ul>	<ul style="list-style-type: none"> <li>• Strain relief grips</li> <li>• I-Grips</li> </ul>
Stainless steel wire (302/304)	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Corrosion resistant</li> <li>• Slightly magnetic</li> </ul>	<ul style="list-style-type: none"> <li>• Deluxe cord grips</li> <li>• Liquidtight, flexible, metal conduit grips</li> <li>• UL type A conduit grips</li> </ul>
Non-metallic strand	<ul style="list-style-type: none"> <li>• Superior flex life</li> <li>• Non-conductive</li> <li>• Corrosion resistant</li> <li>• Moderate strength</li> </ul>	<ul style="list-style-type: none"> <li>• Non-metallic deluxe cord grips</li> </ul>

## Operating Temperatures

Material	Temperature Range
Aluminum	-40°F to +300°F (-40°C to +149°C).
Aluminum Deluxe Cord Grips	-30°F to +240°F (-34°C to +115°C).
Non-Metallic Deluxe Cord Grips	-30°F to +225°F (-34°C to +107°C).
Nylon	-40°F to +225°F (-40°C to +107°C).
Nylon Fitting with Stainless Steel Mesh	-40°F to +225°F (-40°C to +107°C).
Stainless Steel	-60°F to +1000°F (-51°C to +537°C).
Stainless Steel Deluxe Cord Grips	-30°F to +240°F (-34°C to +115°C).
Neoprene (Bushings)	-30°F to +240°F (-34°C to +115°C).

## Hazardous Locations

	Product Categories
The product categories listed to the right are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2.	Deluxe cord grip, aluminum fitting; Deluxe cord grip, nylon fitting; Deluxe cord grip, non-metallic; Sealtite conduit grips; Dusttight strain relief grips.

## Flammability

Non-metallic deluxe cord grips will not support combustion. Listed below are the ratings.

Component	Rating
Mesh grip	UL 94HB.
Fitting	UL 94V-2.

## Approvals

UL Listing and CSA Certification are indicated on appropriate product catalog pages.

Agency	UL Control Number
Underwriters Laboratories Inc.	898D and 899D.
	UL Listed in accordance with Standard 514B for indoor/outdoor use.

## Wet Locations

	Product Categories
The products noted to the right are suitable for use in wet locations when a listed sealing ring is used between box and fitting.	Deluxe cord grip, aluminum fitting; Deluxe sealing ring cord grip; Deluxe cord grip, non-metallic; Sealtite conduit grips; Hubbell non-metallic conduit grips; Cord connectors; Hubbell Juniors; PolyTuff® connectors; Hubbell sealtite conduit connectors.

## Form Size Definition

The term "Form Size" refers to the physical mass or overall dimensions of a cord connector. Form 1 is the smallest size, Form 8 is the largest size.

## Knockout Holes

NPT Hub Size Inches	Knockout Hole Recommended Min. to Max. Inches (cm)		
¼	.540"	to	.570" (1.37-1.45)
⅜	.671"	to	.701" (1.70-1.78)
½	.859"	to	.906" (2.18-2.30)
¾	1.094"	to	1.141" (2.78-2.90)
1	1.359"	to	1.406" (3.45-3.57)
1¼	1.719"	to	1.766" (4.37-4.49)
1½	1.969"	to	2.016" (5.00-5.12)
2	2.453"	to	2.500" (6.23-6.35)
2½	2.953"	to	3.000" (7.50-7.62)
3	3.578"	to	3.625" (9.09-9.21)

## Product Data

### Deluxe Cord Grips, Liquidtight for Insulated Cables

Deluxe Cord Grips helps to alleviate pull tension on terminals, control cable arc-of-bend, prevent cord pull-out, and provide a liquidtight seal. They are offered with either aluminum, stainless steel or nylon fittings in a variety of configurations and NPT thread sizes. Additionally, a completely non-metallic product is offered on page V-53.

## Application

Deluxe Cord Grips are used indoors or outdoors to help prevent cord pull-out, and where cables are subjected to moisture, splash or submersion. Specific uses are: wiring enclosures, pendant stations, hand tools, construction, processing and material handling equipment, pumps, motors and machine tools.

## Benefits

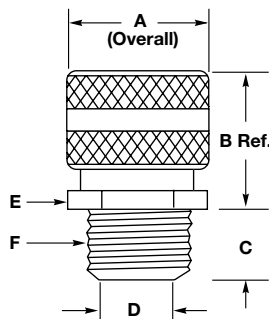
- Helps to prevent cable pull-out
- Controls cable arc-of-bend
- Provides a liquidtight seal
- Corrosion resistant stainless steel mesh with aluminum collar

## Deluxe Cord Grips Fitting Dimensions

### Straight Hubbell Connectors

F NPT Inches	Aluminum, Inches (cm)						Nylon, Inches (cm)					Stainless Steel, Inches (cm)							
	A	B	C	D Throat Dia.	E		A	B	C	D Throat Dia.	E		A		B	C	D Throat Dia.	E	
	Form Dia.	Ref.			A/C*	A/F*	Dia.	Ref.			A/C*	A/F*	A/C*	A/F*	Ref.			A/C*	A/F*
3/8-18	1 .88" (2.24)	.90" (2.29)	.46" (1.17)	.44" (1.12)	.99" (2.51)	.88" (2.24)	1.00" (2.54)	1.10" (2.79)	.43" (1.09)	.45" (1.14)	1.00" (2.54)	.93" (2.36)	1.01" (2.57)	.88" (2.24)	.90" (2.29)	.46" (1.17)	.45" (1.14)	.87" (2.21)	.75" (1.90)
1/2-14	1 .88" (2.24)	.90" (2.29)	.46" (1.17)	.44" (1.12)	.99" (2.51)	.88" (2.24)	1.00" (2.54)	1.10" (2.79)	.43" (1.09)	.45" (1.14)	1.00" (2.54)	.93" (2.36)	—	—	—	—	—	—	—
1/2-14	2 1.13" (2.87)	1.10" (2.79)	.55" (1.40)	.64" (1.63)	1.11" (2.82)	1.00" (2.54)	1.32" (3.35)	1.50" (3.81)	.53" (1.35)	.58" (1.47)	1.25" (3.17)	1.12" (2.84)	1.30" (3.30)	1.13" (2.87)	1.10" (2.79)	.54" (1.37)	.63" (1.60)	1.16" (2.95)	1.00" (2.54)
1/2-14	3 1.38" (3.51)	1.50" (3.81)	.55" (1.40)	.64" (1.63)	1.40" (3.56)	1.25" (3.17)	—	—	—	—	—	—	—	—	—	—	—	—	—
3/4-14	2 1.13" (2.87)	1.10" (2.79)	.55" (1.40)	.64" (1.63)	1.29" (3.28)	1.13" (2.87)	—	—	—	—	—	—	—	—	—	—	—	—	—
3/4-14	3 1.38" (3.51)	1.50" (3.81)	.55" (1.40)	.82" (2.08)	1.40" (3.56)	1.25" (3.17)	1.56" (3.96)	1.60" (4.06)	.55" (1.40)	.77" (1.96)	1.44" (3.66)	1.31" (3.33)	1.59" (4.04)	1.38" (3.51)	1.30" (3.30)	.56" (1.42)	.81" (2.06)	1.44" (3.66)	1.25" (3.17)
1-11 1/2	3 —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1-11 1/2	4 1.75" (4.44)	1.60" (4.06)	.71" (1.80)	1.02" (2.59)	1.81" (4.60)	1.62" (4.11)	1.88" (4.78)	1.75" (4.44)	.70" (1.78)	1.01" (2.57)	1.84" (4.67)	1.63" (4.14)	2.02" (5.13)	1.75" (4.44)	1.40" (3.56)	.70" (1.78)	1.03" (2.62)	1.88" (4.78)	1.63" (4.14)
1-11 1/2	5 2.31" (5.87)	1.70" (4.32)	.66" (1.68)	1.01" (2.57)	2.28" (5.79)	2.00" (5.08)	—	—	—	—	—	—	—	—	—	—	—	—	—
1 1/4-11 1/2	5 2.31" (5.87)	1.70" (4.32)	.74" (1.88)	1.26" (3.20)	2.28" (5.79)	2.12" (5.38)	—	—	—	—	—	—	—	—	—	—	—	—	—
1 1/2-11	5 2.31" (5.87)	1.70" (4.32)	.74" (1.88)	1.38" (3.51)	2.28" (5.79)	2.12" (5.38)	—	—	—	—	—	—	—	—	—	—	—	—	—
1 1/2-11 1/2	6 3.00" (7.62)	2.20" (5.59)	.75" (1.90)	1.50" (3.81)	2.97" (7.54)	2.75" (6.98)	—	—	—	—	—	—	—	—	—	—	—	—	—
2-11 1/2	6 3.00" (7.62)	2.20" (5.59)	.80" (2.03)	1.92" (4.88)	3.24" (8.24)	3.00" (7.62)	—	—	—	—	—	—	—	—	—	—	—	—	—
2-11 1/2	7 3.85" (9.78)	2.70" (6.86)	.88" (2.24)	1.94" (4.93)	4.05" (10.29)	3.75" (9.52)	—	—	—	—	—	—	—	—	—	—	—	—	—
2 1/2-8	7 3.85" (9.78)	2.70" (6.86)	1.30" (3.30)	2.32" (5.89)	4.34" (11.02)	4.02" (10.21)	—	—	—	—	—	—	—	—	—	—	—	—	—
2 1/2-8	8 4.75" (12.06)	2.70" (6.86)	1.25" (3.17)	2.38" (6.05)	4.86" (12.34)	4.50" (11.43)	—	—	—	—	—	—	—	—	—	—	—	—	—
3-8	7 3.85" (9.78)	2.70" (6.86)	1.30" (3.30)	2.54" (6.45)	4.34" (11.02)	4.01" (10.21)	—	—	—	—	—	—	—	—	—	—	—	—	—
3-8	8 4.50" (11.43)	2.70" (6.86)	1.38" (3.51)	3.00" (7.62)	4.86" (12.34)	4.50" (11.43)	—	—	—	—	—	—	—	—	—	—	—	—	—

Note: \*A/C— Across Corners; A/F—Across Flats.

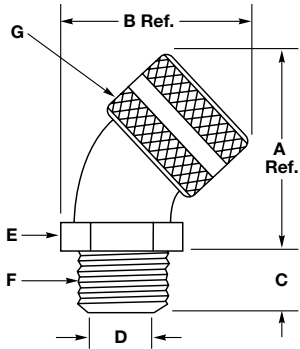


Dimensions shown are approximate and are subject to change without notice.

## Deluxe Cord Grips Fitting Dimensions

### 45° Hubbell Connectors

Aluminum, Inches (cm)



F NPT Inches	Form	A		C	D Throat Dia.	E		G Dia.
		Ref.	Ref.			Across Corners	Across Flats	
1/2-14	2	2.00" (5.08)	1.90" (4.83)	.550" (1.40)	.560" (1.42)	1.270" (3.23)	1.110" (2.79)	1.125" (2.86)
3/4-14	3	2.30" (5.84)	2.50" (6.53)	.560" (1.42)	.750" (1.90)	1.480" (3.76)	1.281" (3.25)	1.375" (3.49)
1-11½	4	2.60" (6.60)	2.80" (7.11)	.700" (1.78)	1.000" (2.54)	1.690" (4.29)	1.500" (3.81)	1.750" (4.44)
1¼-11½	5	3.90" (9.91)	3.90" (9.91)	.740" (1.88)	1.250" (3.17)	2.45" (6.22)	2.125" (5.40)	2.310" (5.87)
1½-11½	5	3.90" (9.91)	3.90" (9.91)	.740" (1.88)	1.500" (3.81)	2.45" (6.22)	2.125" (5.40)	2.310" (5.87)

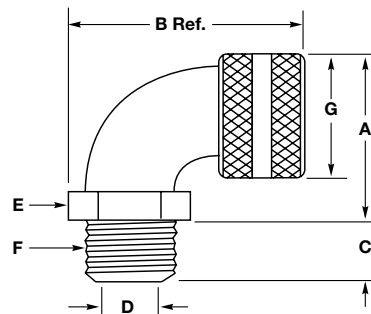
### 90° Hubbell Connectors

Aluminum, Inches (cm)

Nylon, Inches (cm)

F NPT Inches	Form	A	B	C	D Throat Dia.	E		G Dia.	Nylon		D Throat Dia.	E		G Dia.	
		Ref.	Ref.	A/C*		A/F*	A		B	A/C*		A/F*			
3/8-18	1	1.27" (3.23)	2.00" (5.08)	.460" (1.17)	.440" (1.12)	1.15" (2.92)	1.10" (2.79)	.875" (2.22)	—	—	—	—	—	—	
1/2-14	2	1.56" (3.96)	2.30" (5.84)	.500" (1.27)	.546" (1.39)	1.30" (3.30)	1.13" (2.87)	1.125" (2.86)	1.41" (3.58)	2.50" (6.35)	.550" (1.40)	.575" (1.46)	1.23" (3.12)	1.12" (2.82)	1.315" (3.34)
3/4-14	3	1.79" (4.55)	2.80" (7.11)	.560" (1.42)	.765" (1.94)	1.49" (3.78)	1.31" (3.33)	1.375" (3.49)	1.65" (4.19)	2.81" (7.14)	.560" (1.42)	.765" (1.94)	1.42" (3.61)	1.29" (3.28)	1.560" (3.96)
1-11½	4	2.08" (5.28)	3.20" (8.13)	.700" (1.78)	1.000" (2.54)	1.70" (4.32)	1.50" (3.81)	1.750" (4.44)	1.99" (5.05)	3.30" (8.38)	.700" (1.78)	1.010" (2.57)	1.82" (4.62)	1.60" (4.06)	1.875" (4.76)
1¼-11½	5	3.18" (8.08)	4.30" (10.92)	.730" (1.85)	1.260" (3.20)	2.47" (6.27)	2.15" (5.46)	2.310" (5.87)	—	—	—	—	—	—	—
1½-11½	5	3.18" (8.08)	4.30" (10.92)	.750" (1.92)	1.500" (3.81)	2.47" (6.27)	2.15" (5.46)	2.310" (5.87)	—	—	—	—	—	—	—
2-11½	6	3.51" (8.92)	5.50" (13.97)	.800" (2.03)	1.920" (4.88)	2.98" (7.57)	2.78" (7.06)	3.000" (7.62)	—	—	—	—	—	—	—

Note: \*A/C - Across Corners; A/F - Across Flats.



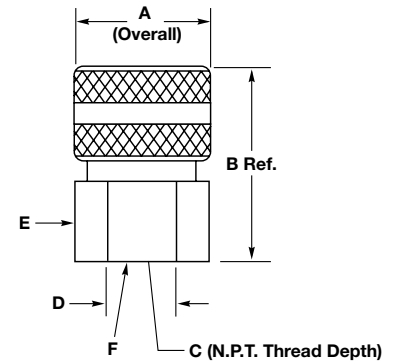
Dimensions shown are approximate and are subject to change without notice.



## Deluxe Cord Grips Fitting Dimensions

### Female Hubbell Connectors

Aluminum, Inches (cm)							
F NPT Inches	Form	A Dia.	B Ref.	C	D Throat Dia.	E	
						Across Comers	Across Flats
¾-18	1	.88" (2.24)	1.40" (3.56)	.560" (1.42)	.44" (1.12)	.94" (2.39)	.81" (2.06)
½-14	2	1.13" (2.87)	1.80" (4.57)	.560" (1.42)	.63" (1.60)	1.15" (2.92)	1.00" (2.54)
¾-14	2	1.13" (2.87)	2.10" (5.33)	.750" (1.90)	.63" (1.60)	1.44" (3.66)	1.25" (3.17)
1-11½	4	1.75" (4.44)	2.30" (5.84)	.880" (2.24)	1.10" (2.79)	1.88" (4.78)	1.63" (4.14)
1¼-11½	5	2.31" (5.87)	2.80" (7.11)	.950" (2.41)	1.43" (3.63)	2.64" (6.71)	2.29" (5.82)
1½-11½	5	2.31" (5.87)	2.80" (7.11)	.950" (2.41)	1.43" (3.63)	2.64" (6.71)	2.29" (5.82)



### Product Data

#### Dust-Tight Strain Relief Grips for Insulated Cables

Kellems® Strain Relief Grips connect flexible cord or bus drop cable to electrical enclosures. For indoor use only, they are available with either insulated or non-insulated aluminum fittings, and feature single weave, galvanized steel mesh grips with patented wide range mesh construction. They come with a locknut and a neoprene gasket that provides a dust tight seal.

#### Application

Used to connect electrical cable to power boxes, cabinets, panel boards, power centers, machine tools and with bus drop systems.

#### Benefits

- Helps prevent cord or cable pull-out
- Provides a dust tight seal
- Easy installation
- Patented mesh construction
- One piece design

*Dimensions shown are approximate and are subject to change without notice.*

## Strain Relief Grips for Liquidtight Flexible Metal and PolyTuff® I Non-Metallic Conduit

Kellems Liquidtight, Flexible Metal Conduit Grips are offered with high quality Hubbell plated steel fittings in a wide variety of NPT sizes and configurations, either insulated or non-insulated. The addition of a stainless steel mesh to these fittings makes them stronger than the conduit itself. Kellems Conduit Grips helps prevent conduit pull-out from the connecting fitting that is subject to stress, pull tension, vibration, motion or strain. They promote safe electrical systems and reduce equipment downtime.

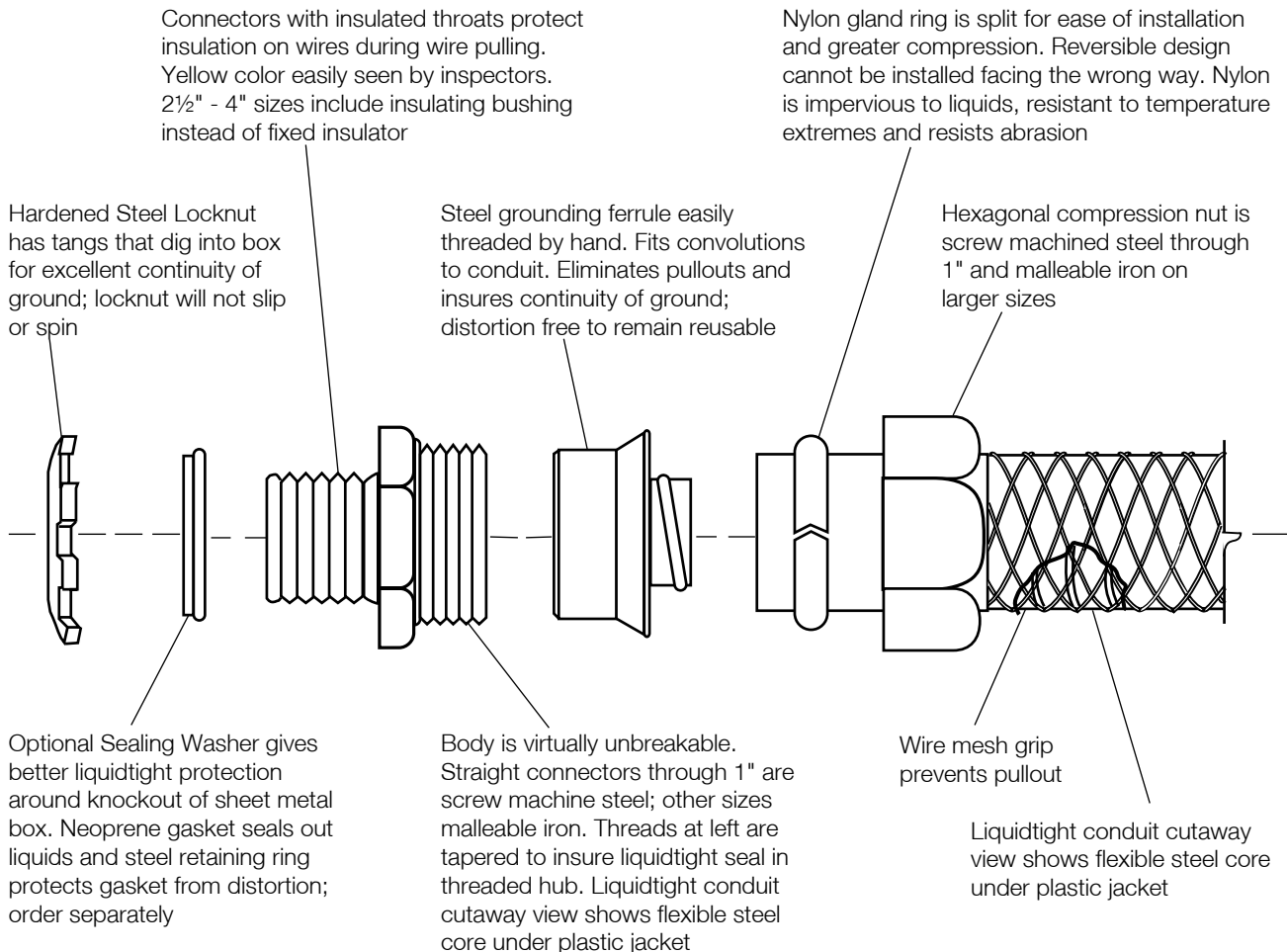
### Application

Kellems Conduit Grips are used in the wiring of machine tools, motors, molding equipment, transformers, weaving and paper machines, fans, lighting, bakeries, breweries, food processing, chemical plants, dairies, mines and any application that requires Liquidtight Conduit.

### Benefits

- Helps prevent conduit pull-out and damage at the fitting
- Reduces equipment downtime
- Liquidtight fittings
- Easily installed
- Stainless steel grip resists corrosion

Kellems Conduit Grips are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 of the National Electric Code.



## Liquidtight Conduit Grip Fitting Dimensions, Inches

### Straight with Male Fitting

Dimensions, Inches								
Trade Size	A	B	C		D	E		Catalog Number
Inches	Ref.	Ref.	A/C*	A/F*	Throat Dia.	A/C*	A/F*	
3/8	1.43"	.59"	1.20"	1.06"	.61"	1.07"	.93"	<b>074093401</b>
1/2	1.43"	.59"	1.34"	1.19"	.61"	1.22"	1.06"	<b>074093402</b>
3/4	1.56"	.59"	1.55"	1.37"	.84"	1.43"	1.25"	<b>074093403</b>
1	1.68"	.66"	1.95"	1.69"	1.06"	1.73"	1.56"	<b>074093404</b>
1 1/4	2.03"	.63"	2.39"	2.06"	1.37"	2.36"	2.08"	<b>074093405</b>
1 1/2	2.21"	.63"	2.72"	2.38"	1.53"	2.79"	2.48"	<b>074093406</b>
2	2.28"	.69"	3.08"	2.87"	2.06"	3.32"	2.90"	<b>074093408</b>

### Straight with Male Fitting with Insulated Throat

Dimensions, Inches								
Trade Size	A	B	C		D	E		Catalog Number
Inches	Ref.	Ref.	A/C*	A/F*	Throat Dia.	A/C*	A/F*	
3/8	1.50"	.66"	1.20"	1.06"	.57"	1.07"	.93"	<b>074093511</b>
1/2	1.50"	.66"	1.34"	1.19"	.57"	1.22"	1.06"	<b>074093512</b>
3/4	1.62"	.66"	1.55"	1.38"	.78"	1.43"	1.25"	<b>074093513</b>
1	1.75"	.72"	1.95"	1.69"	.98"	1.73"	1.56"	<b>074093514</b>
1 1/4	2.09"	.69"	2.39"	2.06"	1.29"	2.36"	2.08"	<b>074093515</b>
1 1/2	2.28"	.69"	2.72"	2.37"	1.53"	2.79"	2.48"	<b>074093516</b>
2	2.34"	.75"	3.08"	2.87"	1.95"	3.32"	2.90"	<b>074093518</b>
2 1/2	3.56"	1.06"	3.92"	3.62"	2.42"	3.85"	3.60"	<b>074093520</b>
3	3.81"	1.06"	4.70"	4.31"	3.01"	4.65"	4.33"	<b>074093522</b>
4	3.81"	1.06"	5.75"	5.31"	3.96"	5.75"	5.39"	<b>074093526</b>

### 45° Angle with Male Fitting

Dimensions, Inches									
Trade Size	H	J	K	L		M	N		Catalog Number
Inches	Ref.	Ref.	Ref.	A/C*	A/F*	Throat Dia.	A/C*	A/F*	
3/8	1.19"	1.28"	.59"	1.20"	1.06"	.60"	1.16"	1.02"	<b>074093441</b>
1/2	1.19"	1.28"	.59"	1.34"	1.19"	.61"	1.21"	1.06"	<b>074093442</b>
3/4	1.19"	1.43"	.59"	1.55"	1.45"	.84"	1.50"	1.32"	<b>074093443</b>
1	1.38"	1.53"	.66"	1.95"	1.69"	1.05"	1.82"	1.59"	<b>074093444</b>
1 1/4	1.42"	1.69"	.63"	2.39"	2.06"	1.37"	2.32"	2.03"	<b>074093445</b>
1 1/2	1.66"	2.00"	.66"	2.72"	2.38"	1.60"	2.62"	2.29"	<b>074093446</b>
2	1.69"	2.25"	.66"	3.08"	2.88"	2.05"	3.21"	2.80"	<b>074093448</b>

### 45° Angle with Male Fitting with Insulated Throat

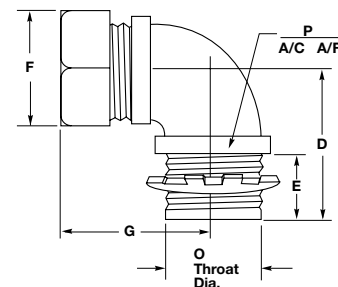
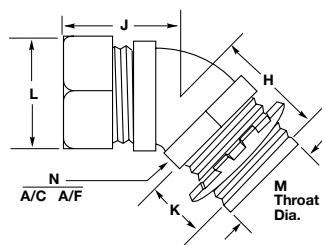
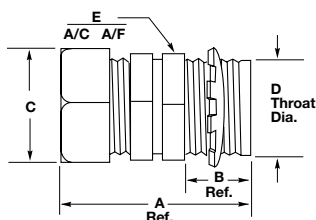
Dimensions, Inches									
Trade Size	H	J	K	L		M	N		Catalog Number
Inches	Ref.	Ref.	Ref.	A/C*	A/F*	Throat Dia.	A/C*	A/F*	
3/8	1.25"	1.28"	.66"	1.20"	1.06"	.57"	1.16"	1.02"	<b>074093561</b>
1/2	1.25"	1.28"	.66"	1.34"	1.19"	.57"	1.21"	1.06"	<b>074093562</b>
3/4	1.25"	1.44"	.66"	1.55"	1.45"	.78"	1.50"	1.32"	<b>074093563</b>
1	1.44"	1.53"	.72"	1.95"	1.69"	.98"	1.82"	1.59"	<b>074093564</b>
1 1/4	1.48"	1.69"	.69"	2.39"	2.06"	1.29"	2.32"	2.03"	<b>074093565</b>
1 1/2	1.72"	2.00"	.72"	2.72"	2.38"	1.53"	2.62"	2.29"	<b>074093566</b>
2	1.75"	2.25"	.72"	3.08"	2.87"	1.95"	3.21"	2.80"	<b>074093568</b>

### 90° Angle with Male Fitting

Dimensions, Inches									
Trade Size	D	E	F		G	P		Catalog Number	
Inches	Ref.	Ref.	A/C*	A/F*	Ref.	Throat Dia.	A/C*		A/F*
3/8	1.31"	.59"	1.20"	1.06"	1.44"	.60"	1.13"	.99"	<b>074093421</b>
1/2	1.31"	.59"	1.34"	1.12"	1.44"	.61"	1.21"	1.00"	<b>074093422</b>
3/4	1.44"	.59"	1.55"	1.45"	1.63"	.83"	1.48"	1.29"	<b>074093423</b>
1	1.78"	.66"	1.95"	1.60"	2.19"	1.05"	1.80"	1.57"	<b>074093424</b>
1 1/4	1.97"	.63"	2.39"	2.06"	2.50"	1.37"	2.32"	2.02"	<b>074093425</b>
1 1/2	2.19"	.66"	2.72"	2.38"	2.69"	1.61"	2.58"	2.25"	<b>074093426</b>
2	2.53"	.66"	3.08"	2.87"	3.25"	2.05"	3.14"	2.75"	<b>074093428</b>

### 90° Angle with Male Fitting with Insulated Throat

Dimensions, Inches									
Trade Size	D	E	F		G	P		Catalog Number	
Inches	Ref.	Ref.	A/C*	A/F*	Ref.	Throat Dia.	A/C*		A/F*
3/8	1.38"	.66"	1.20"	1.06"	1.44"	.60"	1.13"	.99"	<b>074093541</b>
1/2	1.38"	.66"	1.34"	1.12"	1.44"	.57"	1.21"	1.00"	<b>074093542</b>
3/4	1.50"	.66"	1.55"	1.45"	1.63"	.78"	1.48"	1.29"	<b>074093543</b>
1	1.84"	.66"	1.95"	1.60"	2.19"	.98"	1.80"	1.57"	<b>074093544</b>
1 1/4	2.03"	.69"	2.39"	2.06"	2.50"	1.29"	2.32"	2.02"	<b>074093545</b>
1 1/2	2.25"	.69"	2.72"	2.38"	2.69"	1.53"	2.58"	2.20"	<b>074093546</b>
2	2.59"	.72"	3.08"	2.87"	3.25"	1.95"	3.14"	2.75"	<b>074093548</b>
2 1/2	3.44"	1.00"	3.92"	3.63"	4.25"	2.42"	3.78"	3.50"	<b>074093550</b>
3	3.75"	1.00"	4.70"	4.31"	4.87"	3.01"	4.64"	4.30"	<b>074093552</b>



Note: \*A/C - Across Corners; A/F - Across Flats.

Dimensions shown are approximate and are subject to change without notice.

## Strain Relief for UL Type A, Flexible, Liquidtight Conduit

Kellems Grips for UL Type A, non-metallic, flexible, liquidtight conduit are available in straight and 90° male and feature a high quality Hubbell plated steel or malleable iron fitting, complete with a sealing O-ring, lock nut and stainless steel mesh. These grips increase the retention of the conduit in the fitting, control its arc-of-bend and provide a liquidtight seal.

### Application

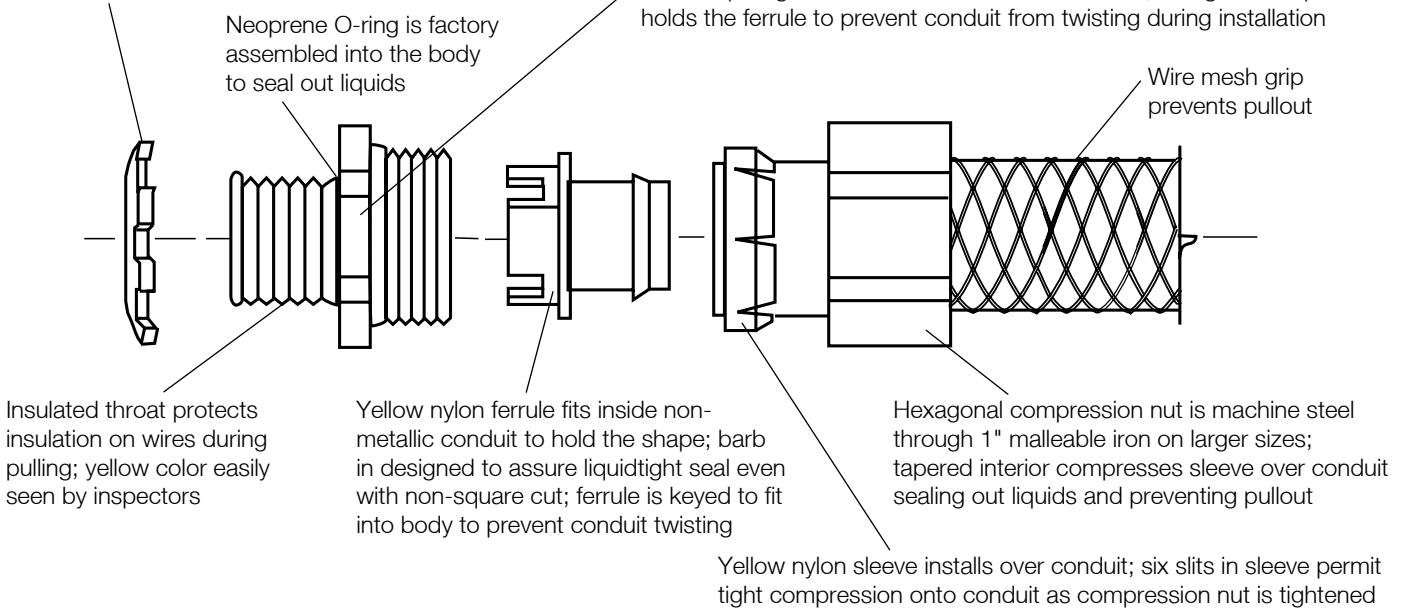
These grips are used on UL Type A non-metallic conduit connections at limit switches, motor boxes, panel boards, control stations and on all types of machinery and machine tools.

Steel Locknut has tangs that dig into box for excellent continuity of ground; locknut will not slip or spin

### Benefits

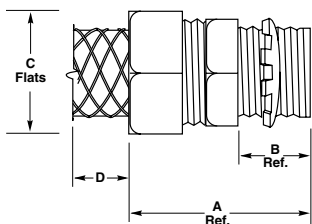
- Provides a liquidtight seal.
- Helps prevent conduit pull-out.
- Reduces conduit cutting, kinking, fraying and splitting at the fitting.
- Easily installed.

Body is virtually unbreakable. Straight connectors through 1" are screw machine steel; other sizes are malleable iron. Threads are tapered to insure liquidtight seal when used in threaded hub; octagonal shape inside holds the ferrule to prevent conduit from twisting during installation



### Dimensional Charts For UL Type A, Liquidtight Conduit Grip Fittings

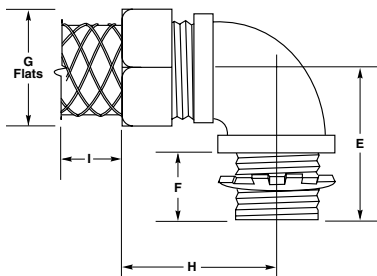
#### Straight with Male Fitting with Insulated Throat



Dimensions Inches (cm)

Trade Size NPT Inches	A	B	C	D	Catalog Number
3/8	1.922" (4.88)	.594" (1.51)	1.156" (2.94)	3.75" (9.52)	<b>H038CNK</b>
1/2	1.922" (4.88)	.594" (1.51)	1.250" (3.17)	4.50" (11.43)	<b>H050CNK</b>
3/4	2.016" (5.12)	.594" (1.51)	1.500" (3.81)	6.25" (15.87)	<b>H075CNK</b>
1	2.157" (5.48)	.719" (1.83)	1.844" (4.68)	7.50" (19.05)	<b>H100CNK</b>
1 1/4	2.219" (5.64)	.750" (1.91)	2.312" (5.87)	9.00" (22.86)	<b>H125CNK</b>
1 1/2	2.344" (5.95)	.750" (1.91)	2.578" (6.55)	13.50" (34.29)	<b>H150CNK</b>
2	2.406" (6.11)	.750" (1.91)	3.187" (8.09)	14.50" (36.83)	<b>H200CNK</b>

#### 90° Angle with Male Fitting with Insulated Throat



Dimensions Inches (cm)

Trade Size NPT Inches	E	F	G	H	I	Catalog Number
3/8	1.250" (3.18)	.594" (1.51)	1.156" (2.94)	1.453" (3.69)	3.75" (9.52)	<b>H0389CNK</b>
1/2	1.281" (3.25)	.594" (1.51)	1.250" (3.17)	1.453" (3.69)	4.50" (11.43)	<b>H0509CNK</b>
3/4	1.438" (3.65)	.594" (1.51)	1.500" (3.81)	1.000" (2.54)	6.25" (15.87)	<b>H0759CNK</b>
1	1.750" (4.44)	.719" (1.83)	1.844" (4.68)	2.125" (5.40)	7.50" (19.05)	<b>H1009CNK</b>
1 1/4	1.969" (5.00)	.750" (1.91)	2.312" (5.87)	2.344" (5.95)	9.00" (22.86)	<b>H1259CNK</b>
1 1/2	2.250" (5.71)	.750" (1.91)	2.578" (6.55)	2.500" (6.35)	13.50" (34.29)	<b>H1509CNK</b>
2	2.531" (6.43)	.750" (1.91)	3.187" (8.09)	2.781" (7.06)	14.50" (36.83)	<b>H2009CNK</b>

# Kellems® Wire Management Products

## Features and Benefits

### Cord Connectors

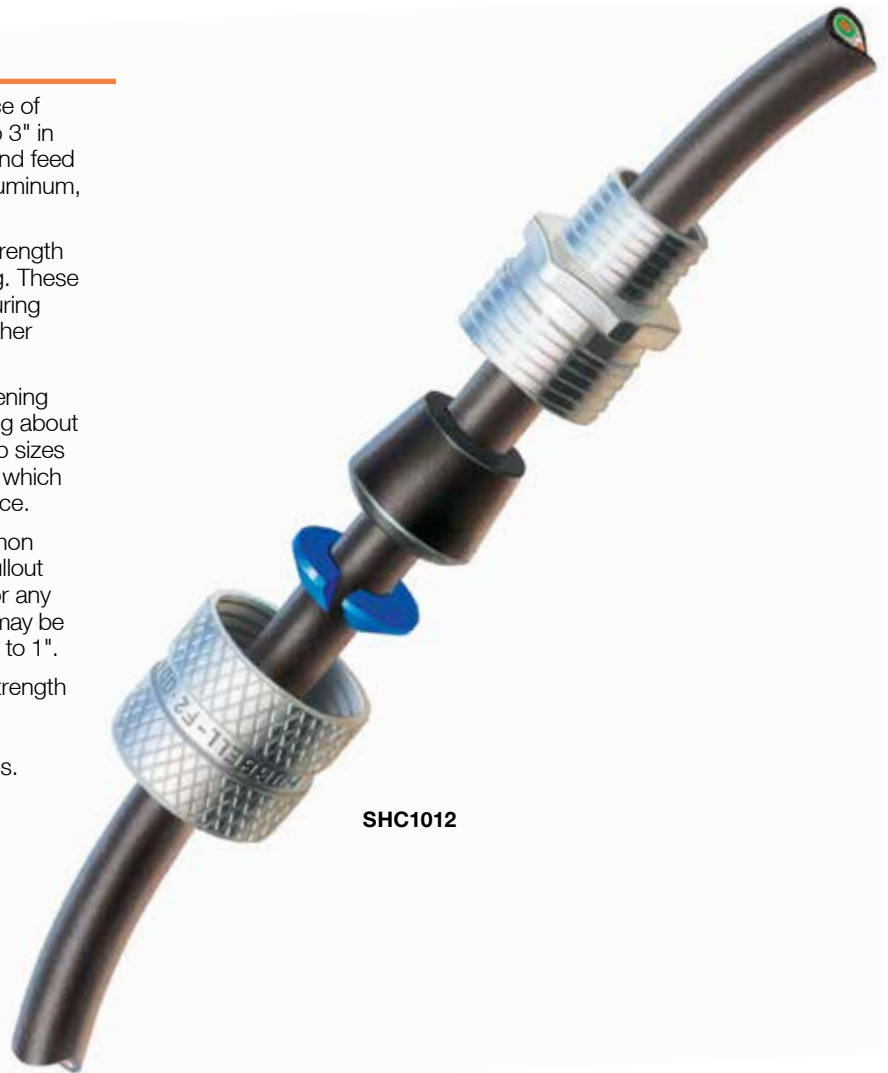
Hubbell has the broadest line and the widest choice of materials in the industry. NPT hub sizes from 1/4" to 3" in straight male end, 90°, 45°, female and underground feed connectors. They are available in your choice of aluminum, plated steel, nylon and stainless steel.

The zinc-plated steel cord connectors offers the strength of steel and the corrosion resistance of zinc-plating. These heavy-duty connectors hold up to most manufacturing chemicals including acid solutions, solvents and other corrosive materials.

Their machined steel nut and body allows for tightening the compression nut and NPT hub without worrying about stripping the threads. For larger size cord, NPT hub sizes 1" to 2", Hubbell utilizes malleable iron connectors which provide excellent holding and liquidtight performance.

Hubbell's nylon cord connectors resist most common industrial corrosives and provide highly effective pullout protection in a lightweight design. They are ideal for any application where weight, conductivity or corrosion may be an issue. They're available in NPT hub sizes from 1/4" to 1".

Stainless steel cord connectors provide superior strength and corrosion resistance for industrial and military applications. They are machined from 300 series stainless steel and come in 1/4" to 1", NPT hub sizes.



SHC1012



#### Liquidtight Seal

- Lubricated neoprene bushing compresses easily for a liquidtight seal and added pull-out protection
- The connector body is a one-piece design with machined threads; a tapered interior seats the bushing evenly for a liquidtight seal



#### Connector Body

- Machined threads provide a strong positive seal; the tapered interior dome easily drives the bushing into the connector body



#### Connector Identification

- The patented GOTCHA® ring incorporates a split hinge design to prevent friction and provide strain relief, also color-coded for sizing identification



#### Comprehensive Offering

- Hubbell offers a full line of machined aluminum cord connectors in NPT hub sizes 1/4" through 1" and cast aluminum 1" to 3"
- They provide durable performance and a clean attractive look without adding unwanted weight; NPT hub sizes 1/4" to 1" feature an attractive knurled finish which makes them easy to handle



## Straight Male Cord Connectors

**IP66\***  
SUITABILITY

Form Size 1-3



### Straight Male

NPT Hub Size	Cord Dia. Inches (mm)	Form Size	Color Code	Machined Aluminum	Machined Zinc-Plated Steel	Stainless Steel	Nylon Gray	Nylon Black
¼	.06"-.13" (1.6-3.2)	F1	Green	—	—	—	<b>SHC1001CR</b>	—
	.13"-.19" (3.2-4.7)		Orange	<b>SHC1002</b>	—	—	<b>SHC1002CR</b>	—
	.19"-.25" (4.7-6.3)		Red	<b>SHC1003</b>	—	<b>SHC1003SS</b>	<b>SHC1003CR</b>	—
	.25"-.31" (6.3-7.9)		Black	<b>SHC1004</b>	—	<b>SHC1004SS</b>	<b>SHC1004CR</b>	—
	.31"-.38" (7.9-9.5)		White	<b>SHC1005**</b>	—	—	<b>SHC1005CR</b>	<b>SHC2005CR</b>
	.38"-.44" (9.5-11)		Blue	—	—	—	<b>SHC1006CR</b>	—
⅜	.06"-.13" (1.6-3.2)	F1	Green	<b>SHC1007</b>	—	—	—	—
	.13"-.19" (3.2-4.7)		Orange	<b>SHC1008</b>	<b>SHC1008ZP</b>	—	<b>SHC1008CR</b>	<b>SHC2008CR</b>
	.19"-.25" (4.7-6.3)		Red	<b>SHC1009</b>	—	<b>SHC1009SS</b>	<b>SHC1009CR</b>	—
	.25"-.31" (6.3-7.9)		Black	<b>SHC1010</b>	<b>SHC1010ZP</b>	—	<b>SHC1010CR</b>	<b>SHC2010CR</b>
	.31"-.38" (7.9-9.5)		White	<b>SHC1011</b>	—	<b>SHC1011SS</b>	<b>SHC1011CR</b>	<b>SHC2011CR</b>
	.38"-.44" (9.5-11.0)		Blue	<b>SHC1012</b>	<b>SHC1012ZP</b>	<b>SHC1012SS</b>	<b>SHC1012CR</b>	<b>SHC2012CR</b>
½	.19"-.25" (4.7-6.3)	F1	Red	<b>SHC1015</b>	—	—	—	—
	.25"-.31" (6.3-7.9)		Black	<b>SHC1016</b>	—	—	—	—
	.31"-.38" (7.9-9.5)		White	<b>SHC1017</b>	—	—	—	—
	.38"-.44" (9.5-11.0)		Blue	<b>SHC1018</b>	—	—	—	—
½	.06"-.13" (1.6-3.2)	F2	Green	<b>SHC1019</b>	—	—	<b>SHC1019CR</b>	—
	.13"-.19" (3.2-4.7)		Orange	<b>SHC1020</b>	<b>SHC1020ZP</b>	<b>SHC1020SS</b>	<b>SHC1020CR</b>	—
	.19"-.25" (4.7-6.3)		Red	<b>SHC1021</b>	<b>SHC1021ZP</b>	<b>SHC1021SS</b>	<b>SHC1021CR</b>	<b>SHC2021CR</b>
	.25"-.38" (6.3-9.7)		White	<b>SHC1022</b>	<b>SHC1022ZP</b>	<b>SHC1022SS</b>	<b>SHC1022CR</b>	<b>SHC2022CR</b>
	.38"-.50" (9.7-12.7)		Blue	<b>SHC1023</b>	<b>SHC1023ZP</b>	<b>SHC1023SS</b>	<b>SHC1023CR</b>	<b>SHC2023CR</b>
	.50"-.63" (12.7-15.9)		Brown	<b>SHC1024</b>	<b>SHC1024ZP</b>	<b>SHC1024SS</b>	<b>SHC1024CR**</b>	<b>SHC2024CR**</b>
½	.38"-.50" (9.7-12.7)	F3	Blue	<b>SHC1025</b>	—	—	—	—
	.50"-.63" (12.7-15.9)		Brown	<b>SHC1026</b>	—	—	—	—
	.63"-.75" (15.9-19.0)		Yellow	<b>SHC1027**</b>	<b>SHC1027ZP**</b>	—	—	—
	.75"-.88" (19.0-22.2)		Orchid	<b>SHC1028**</b>	<b>SHC1028ZP**</b>	—	—	—
¾	.06"-.13" (1.6-3.2)	F2	Green	<b>SHC1029</b>	—	—	—	—
	.13"-.19" (3.2-4.7)		Orange	<b>SHC1030</b>	<b>SHC1030ZP</b>	—	—	—
	.19"-.25" (4.7-6.3)		Red	<b>SHC1031</b>	<b>SHC1031ZP</b>	—	—	—
	.25"-.38" (6.3-9.7)		White	<b>SHC1032</b>	<b>SHC1032ZP</b>	—	—	—
	.38"-.50" (9.7-12.7)		Blue	<b>SHC1033</b>	<b>SHC1033ZP</b>	—	—	—
	.50"-.63" (12.7-15.9)		Brown	<b>SHC1034</b>	<b>SHC1034ZP</b>	—	—	—
¾	.38"-.50" (9.5-12.7)	F3	Blue	—	<b>SHC1035ZP</b>	<b>SHC1035SS</b>	<b>SHC1035CR</b>	<b>SHC2035CR</b>
	.50"-.63" (12.7-15.9)		Brown	<b>SHC1036</b>	—	<b>SHC1036SS</b>	<b>SHC1036CR</b>	<b>SHC2036CR</b>
	.63"-.75" (15.9-19.0)		Yellow	<b>SHC1037</b>	<b>SHC1037ZP</b>	<b>SHC1037SS</b>	<b>SHC1037CR</b>	<b>SHC2037CR</b>
	.75"-.88" (19.0-22.2)		Orchid	<b>SHC1038**</b>	<b>SHC1038ZP**</b>	<b>SHC1038SS**</b>	<b>SHC1038CR**</b>	<b>SHC2038CR**</b>
1	.50"-.63" (12.7-15.9)	F3	Brown	—	<b>SHC1097ZP</b>	—	—	—
	.63"-.75" (15.9-19.0)		Yellow	—	<b>SHC1098ZP</b>	—	—	—
	.75"-.88" (19.0-22.2)		Orchid	—	<b>SHC1099ZP</b>	—	—	—
1	.38"-.50" (9.7-12.7)	F4	Blue	<b>SHC1039</b>	—	<b>SHC1039SS</b>	<b>SHC1039CR</b>	—
	.50"-.63" (12.7-15.9)		Brown	<b>SHC1040</b>	—	—	<b>SHC1040CR</b>	<b>SHC2040CR</b>
	.63"-.75" (15.9-19.0)		Yellow	<b>SHC1041</b>	—	<b>SHC1041SS</b>	<b>SHC1041CR</b>	<b>SHC2041CR</b>
	.75"-.88" (19.0-22.2)		Orchid	<b>SHC1042</b>	—	<b>SHC1042SS</b>	<b>SHC1042CR</b>	<b>SHC2042CR</b>
	.88"-1.00" (22.2-25.4)		Gray	<b>SHC1043</b>	<b>SHC1043ZP</b>	<b>SHC1043SS</b>	<b>SHC1043CR</b>	<b>SHC2043CR</b>
	1.00"-1.13" (25.4-28.6)		Pink	<b>SHC1044**</b>	—	<b>SHC1044SS**</b>	<b>SHC1044CR**</b>	<b>SHC2044CR**</b>

Note: See pages V-78 to V-88 for technical information and dimensional drawings.

\*IP66 Suitability when used with optional metal clad O-ring, see page V-75 for additional information.

\*\*Cable jacket may have to be stripped to pass through connector body.

Form 4 aluminum and plated steel nuts are machined, bodies are cast aluminum.

Locknuts sold separately. See page V-75 for additional information.

## Straight Male Cord Connectors

**IP66\***  
SUITABILITY

Form Size 5-8



### Straight Male

NPT Hub Size	Cord Diameter Inches (mm)	Form Size	Cast Aluminum	Malleable Iron
1	.88"-1.00" (22.2-25.4)	F5	<b>SHC1046</b>	—
	1.00"-1.13" (25.4-28.6)		<b>SHC1047**</b>	—
	1.13"-1.25" (28.6-31.7)		<b>SHC1048**</b>	—
	1.25"-1.38" (31.7-34.9)		<b>SHC1049**</b>	—
1¼	.75"-.88" (19.0-22.2)	F5	<b>SHC1050</b>	—
	.88"-1.00" (22.2-25.4)		<b>SHC1051</b>	—
	1.00"-1.13" (25.4-28.6)		<b>SHC1052</b>	<b>SHC1052ZP</b>
	1.13"-1.25" (28.6-31.7)		<b>SHC1053</b>	<b>SHC1053ZP</b>
1½	1.25"-1.38" (31.7-34.9)	F5	<b>SHC1054**</b>	<b>SHC1054ZP</b>
	.75"-.88" (19.0-22.2)		<b>SHC1055</b>	—
	.88"-1.00" (22.2-25.4)		<b>SHC1056</b>	—
	1.00"-1.13" (25.4-28.6)		<b>SHC1057</b>	<b>SHC1057ZP</b>
1½	1.13"-1.25" (28.6-31.7)	F5	<b>SHC1058</b>	<b>SHC1058ZP</b>
	1.25"-1.38" (31.7-34.9)		<b>SHC1059</b>	<b>SHC1059ZP</b>
	1.38"-1.50" (34.9-38.1)		<b>SHC1061</b>	—
	1.50"-1.63" (38.1-41.3)		<b>SHC1062**</b>	—
2	1.63"-1.75" (41.3-44.4)	F6	<b>SHC1063**</b>	—
	1.75"-1.88" (44.4-47.6)		<b>SHC1064**</b>	—
	1.25"-1.38" (31.7-34.9)		<b>SHC1065</b>	—
	1.38"-1.50" (34.9-38.1)		<b>SHC1066</b>	—
2	1.50"-1.63" (38.1-41.3)	F6	<b>SHC1067</b>	—
	1.63"-1.75" (41.3-44.4)		<b>SHC1068</b>	—
	1.75"-1.88" (44.4-47.6)		<b>SHC1069</b>	—
	1.69"-1.81" (42.9-46.0)		<b>SHC1070</b>	—
2	1.81"-1.94" (46.0-49.2)	F7	<b>SHC1071</b>	—
	1.94"-2.06" (49.2-52.4)		<b>SHC1072**</b>	—
	2.06"-2.19" (52.4-55.6)		<b>SHC1073**</b>	—
	2.19"-2.31" (55.6-58.7)		<b>SHC1074**</b>	—
2½	1.69"-1.81" (42.9-46.0)	F7	<b>SHC1076</b>	—
	1.81"-1.94" (46.0-49.2)		<b>SHC1077</b>	—
	1.94"-2.06" (49.2-52.4)		<b>SHC1078</b>	—
	2.06"-2.19" (52.4-55.6)		<b>SHC1079</b>	—
3	2.19"-2.31" (55.6-58.7)	F7	<b>SHC1080</b>	—
	2.31"-2.44" (58.7-61.9)		<b>SHC1081**</b>	—
	1.69"-1.81" (42.9-46.0)		<b>SHC1086</b>	—
	1.94"-2.06" (49.2-52.4)		<b>SHC1088</b>	—
3	2.06"-2.19" (52.4-55.6)	F7	<b>SHC1089</b>	—
	2.19"-2.31" (55.6-58.7)		<b>SHC1090</b>	—
	2.31"-2.44" (58.7-61.9)		<b>SHC1091</b>	—
	2.44"-2.63" (61.9-66.7)		<b>SHC1092</b>	—
3	2.63"-2.81" (66.7-71.4)	F8	<b>SHC1093</b>	—
	2.81"-3.00" (71.4-76.2)		<b>SHC1094</b>	—
	3.00"-3.25" (76.2-82.5)		<b>SHC1095**</b>	—

Note: See pages V-78 to V-88 for technical information and dimensional drawings.

\*IP66 Suitability when used with optional metal clad O-ring, see page V-75 for additional information.

\*\*Cable jacket may have to be stripped to pass through connector body.

Locknuts sold separately. See page V-75 for additional information.

## 45° and 90° Male Cord Connectors

**IP66\***  
SUITABILITY

Form Size 1-6



### 90° Male

NPT Hub Size	Cord Diameter Inches (mm)	Form Size	Color Code	Machined Aluminum†	Machined Zinc-Plated SteelΔ	Cast Aluminum	Nylon Gray	Nylon Black
3/8	.25"-.31" (6.3-7.9)	F1	Black	<b>NHC1010</b>	—	—	—	—
	.31"-.38" (7.9-9.5)		White	<b>NHC1011</b>	—	—	—	—
	.38"-.44" (9.5-11.0)		Blue	<b>NHC1012</b>	—	—	—	—
1/2	.06"-.13" (1.6-3.2)	F2	Green	—	—	—	—	—
	.13"-.19" (3.2-4.7)		Orange	<b>NHC1020</b>	—	—	<b>NHC1020CR</b>	—
	.19"-.25" (4.7-6.3)		Red	<b>NHC1021</b>	<b>NHC1021ZP</b>	—	<b>NHC1021CR</b>	—
	.25"-.38" (6.3-9.7)		White	<b>NHC1022</b>	<b>NHC1022ZP</b>	—	<b>NHC1022CR</b>	<b>NHC2022CR</b>
	.38"-.50" (9.7-12.7)		Blue	<b>NHC1023</b>	<b>NHC1023ZP</b>	—	<b>NHC1023CR</b>	<b>NHC2023CR</b>
	.50"-.63" (12.7-15.9)		Brown	<b>NHC1024**</b>	<b>NHC1024ZP**</b>	—	<b>NHC1024CR**</b>	<b>NHC2024CR**</b>
3/4	.38"-.50" (9.7-12.7)	F3	Blue	<b>NHC1035</b>	<b>NHC1035ZP</b>	—	<b>NHC1035CR</b>	—
	.50"-.63" (12.7-15.9)		Brown	<b>NHC1036</b>	<b>NHC1036ZP</b>	—	<b>NHC1036CR</b>	—
	.63"-.75" (15.9-19.0)		Yellow	<b>NHC1037</b>	<b>NHC1037ZP</b>	—	<b>NHC1037CR</b>	—
	.75"-.88" (19.0-22.2)		Orchid	<b>NHC1038</b>	<b>NHC1038ZP</b>	—	<b>NHC1038CR</b>	—
1	.50"-.63" (12.7-15.9)	F4	Brown	<b>NHC1040</b>	—	—	—	—
	.63"-.75" (15.9-19.0)		Yellow	<b>NHC1041</b>	<b>NHC1041ZP</b>	—	<b>NHC1041CR</b>	<b>NHC2041CR</b>
	.75"-.88" (19.0-22.2)		Orchid	<b>NHC1042</b>	—	—	<b>NHC1042CR</b>	<b>NHC2042CR**</b>
	.88"-.1.00" (22.2-25.4)		Gray	<b>NHC1043**</b>	—	—	<b>NHC1043CR</b>	<b>NHC2043CR**</b>
	1.00"-.1.13" (25.4-28.7)		Pink	<b>NHC1044**</b>	—	—	—	—
1 1/4	.88"-.1.00" (22.2-25.4)	F5	—	—	—	<b>NHC1051</b>	—	—
	1.00"-.1.13" (25.4-28.6)		—	—	—	<b>NHC1052</b>	—	—
	1.13"-.1.25" (28.6-31.7)		—	—	—	<b>NHC1053**</b>	—	—
	1.25"-.1.38" (31.7-34.9)		—	—	—	<b>NHC1054**</b>	—	—
1 1/2	1.00"-.1.13" (25.4-28.6)	F5	—	—	—	<b>NHC1057</b>	—	—
	1.13"-.1.25" (28.6-31.7)		—	—	—	—	—	—
	1.25"-.1.38" (31.7-34.9)		—	—	—	<b>NHC1059</b>	—	—
2	1.38"-.1.50" (34.9-38.1)	F6	—	—	—	<b>NHC1066</b>	—	



### 45° Male

NPT Hub Size	Cord Diameter Inches (mm)	Form Size	Color Code	Machined Aluminum†	Machined Zinc-Plated SteelΔ	Cast Aluminum
1/2	.19"-.25" (4.7-6.3)	F2	Red	<b>VHC1021</b>	—	—
	.25"-.38" (6.3-9.7)		White	<b>VHC1022</b>	<b>VHC1022ZP</b>	—
	.38"-.50" (9.7-12.7)		Blue	<b>VHC1023</b>	<b>VHC1023ZP</b>	—
	.50"-.63" (12.7-15.9)		Brown	<b>VHC1024**</b>	<b>VHC1024ZP**</b>	—
3/4	.38"-.50" (9.7-12.7)	F3	Blue	<b>VHC1035</b>	—	—
	.50"-.63" (12.7-15.9)		Brown	<b>VHC1036</b>	—	—
	.63"-.75" (15.9-19.0)		Yellow	<b>VHC1037**</b>	—	—
1	.63"-.75" (15.9-19.0)	F4	Yellow	<b>VHC1041</b>	—	—
	.75"-.88" (19.0-22.2)		Orchid	<b>VHC1042</b>	—	—
1 1/4	1.00"-.1.13" (25.4-28.6)	F5	—	—	—	<b>VHC1052</b>
	1.13"-.1.25" (28.6-31.7)		—	—	—	<b>VHC1053**</b>

Note: See pages V-78 to V-88 for technical information and dimensional drawings.

\*IP66 Suitability when used with optional metal clad O-ring, see page V-75 for additional information.

\*\*Cable jacket may have to be stripped to pass through connector body.

†Nuts are machined aluminum and bodies are cast aluminum.

ΔCompression nuts are machined zinc-plated steel and bodies are zinc-plated malleable iron.

Locknuts sold separately. See page V-75 for additional information.

## Straight Female, Underground Feeder and Metric Connectors

Form Size 1-4



### Straight Female

NPT Hub Size	Cord Diameter Inches (mm)	Form Size	Color Code	Machined Aluminum
1/2	.25"-.38" (6.3-9.7)	F2	White	<b>FHC1022</b>
	.38"-.50" (9.7-12.7)		Blue	<b>FHC1023</b>
3/4	.38"-.50" (9.7-12.7)	F2	Blue	<b>FHC1033</b>
	.50"-.63" (12.7-15.9)		Brown	<b>FHC1034</b>
1	.75"-.88" (19.0-22.2)	F4	Orchid	<b>FHC1042†</b>
	.88"-.1.00" (22.2-25.4)		Gray	<b>FHC1043†</b>

Note: See pages V-78 to V-88 for technical information and dimensional drawings.

\*Cable jacket may have to be stripped to pass through connector body.

†Nuts are machined aluminum and bodies are cast aluminum.



**IP66\***  
SUITABILITY



### Underground Feeder Connectors

NPT Hub Size	Cord Diameter Inches (mm)	Wire Size	UF** Machined Aluminum	Machined Zinc-Plated Steel	Nylon Gray	Nylon Black
1/2	.2"x.4" min (5.1 x 10.2)	2 # 14, 2 # 12, 2 # 10.	<b>UFC0001</b>	<b>UFC0001ZP</b>	<b>UFC0001CR</b>	<b>UFC2001CR</b>
	.25"-.55" max (6.3 x 14.0)					
3/4	.2"x.4" min (5.1x10.2)	2 # 14, 2 # 12, 2 # 10.	<b>UFC0002</b>	-	-	-
	.25"-.55" max (6.3x14.0)					
3/4	.2"x.6" min (5.1x15.2)	3 # 14, 3 # 12, 3 # 10.	<b>UFC0003</b>	-	<b>UFC0003CR</b>	<b>UFC2003CR</b>
	.26"x.78" max (6.6x19.8)					

Note: See pages V-78 to V-88 for technical information and dimensional drawings.

\*IP66 Suitability when used with optional metal clad O-ring, see page V-75 for additional information.

\*\*Wire sizes vary among manufacturers.

Locknuts sold separately, see page V-75 for additional information.



UL Listed to  
Type 4, 4X, 12 and 13†

### Metric Aluminum Cord Connectors

Metric Hub Size	Cord Diameter Inches (mm)	Form Size	Color Code	Catalog Number
M16	.31"-.38" (7.9-9.7)	F1	White	<b>SHCM161011</b>
M20	.31"-.38" (7.9-9.7)	F1	White	<b>SHCM201017</b>
	.25"-.38" (6.3-9.7)		White	<b>SHCM201022</b>
	.38"-.50" (9.7-12.7)		Blue	<b>SHCM201023</b>
M20	.50"-.62" (12.7-15.8)	F2	Brown	<b>SHCM201024</b>
	.38"-.50" (9.7-12.7)		Blue	<b>SHCM251033</b>
M25	.50"-.62" (12.7-15.8)	F2	Brown	<b>SHCM251034</b>
	.63"-.75" (15.9-19.0)		F3	Yellow

Note: †When used with metal clad O-ring, see page V-75 for additional information.

Non-metallic Locknuts sold separately, see page V-75 for additional information.



## Low Profile NPT, PG and Metric Thread Connectors

Non-Metallic Cord Connectors

**IP66\***  
SUITABILITY



### Low Profile NPT Cord Connectors

NPT Hub Size	Cord Diameter Inches (mm)	Black	Gray	Non-metallic Locknuts
3/8	.18"-.31" (4.6-7.9)	<b>SEC38BA*</b>	<b>SEC38GA*</b>	<b>31622002LPK50</b>
1/2	.17"-.45" (4.3-11.4)	<b>SEC50BA</b>	<b>SEC50GA</b>	<b>31622003LPK50</b>
3/4	.45"-.71" (11.4-18.0)	<b>SEC75BA</b>	<b>SEC75GA</b>	<b>31622007LPK50</b>
1	.59"-1.00" (15-25.4)	<b>SEC100BA</b>	<b>SEC100GA</b>	<b>31622008LPK50</b>

Note: See pages V-78 to V-88 for technical information and dimensional drawings.  
Catalog numbers with "PK50" suffix are bulk packed 50 pieces.



### Low Profile PG<sup>Δ</sup> Cord Connectors

Hub Size	Cord Diameter Inches (mm)	Black	Gray	Non-metallic Locknuts
PG7	.11"-.25" (2.9-6.4)	<b>SECP7BA*</b>	<b>SECP7GA*</b>	<b>LNP7BPK100</b>
PG9	.18"-.31" (4.6-7.9)	<b>SECP9BA*</b>	<b>SECP9GA*</b>	<b>LNP9BPK100</b>
PG11	.23"-.40" (5.8-10.0)	<b>SECP11BA*</b>	<b>SECP11GA*</b>	<b>LNP11BPK100</b>
PG13.5	.17"-.47" (4.3-11.9)	<b>SECP13BA</b>	<b>SECP13GA</b>	<b>LNP13BPK100</b>
PG16	.23"-.53" (5.8-13.5)	<b>SECP16BA</b>	<b>SECP16GA</b>	<b>LNP16BPK100</b>
PG21	.45"-.71" (11.4-17.9)	<b>SECP21BA</b>	<b>SECP21GA</b>	<b>LNP21BPK100</b>
PG29	.59"-.99" (15-25.2)	<b>SECP29BA</b>	<b>SECP29GA</b>	<b>LNP29BPK25</b>
PG36	.88"-1.30" (22.2-32.0)	<b>SECP36BA</b>	<b>SECP36GA</b>	<b>LNP36BPK25</b>



### Low Profile Metric Cord Connectors

Hub Size	Cord Diameter Inches (mm)	Black	Gray	Non-metallic Locknuts
M12	.12"-.25" (2.9-6.4)	<b>SECM12B</b>	<b>SECM12G</b>	<b>LNM12BPK100</b>
M16	.11"-.31" (2.7-7.9)	<b>SECM16B</b>	<b>SECM16G</b>	<b>LNM16BPK100</b>
M20	.17"-.45" (4.3-11.4)	<b>SECM20B*</b>	<b>SECM20G*</b>	<b>LNM20BPK100</b>
M25	.49"-.71" (12.3-18.0)	<b>SECM25B*</b>	<b>SECM25G*</b>	<b>LNM25BPK100</b>
M32	.59"-1.00" (15.0-25.4)	<b>SECM32B*</b>	<b>SECM32G*</b>	<b>LNM32BPK100</b>
M40	.87"-1.30" (22.0-32.0)	<b>SECM40B</b>	<b>SECM40G</b>	<b>LNM40BPK100</b>

Note: See pages V-78 to V-88 for technical information and dimensional drawings.  
Catalog numbers above with "PK100" suffix, i.e. LNP7BPK100, are bulk packed 100 per carton.  
Catalog numbers above with "PK25" suffix, i.e. LNP29BPK25, are bulk packed 25 per carton.  
\*Items indicated are UL recognized components.  
<sup>Δ</sup>Panzergewinde.



## Accessories



### Multi-Hole Cord Grip Connectors

NPT Hub Size	Cord Diameter Inches (mm)	Color	Holes	Catalog Number
½	.205" (5.2mm)	Black	2	<b>SEC50B252</b>
¾	.205" (5.2mm)	Black	3	<b>SEC75B352</b>
¾	.205" (5.2mm)	Black	4	<b>SEC75B452</b>
½	.220" (5.6mm)	Black	3	<b>SEC50B356</b>
1	.215" (5.5mm)	Black	9*	<b>SEC100BSMH9</b>
1¼	.215" (5.5mm)	Black	13*	<b>SEC125BSMH13</b>

Note: \*Skinned bushings, field configurable.



### Cord Connector Parts

NPT Hub Size	Cord Diameter Inches (mm)	Form Size	Bushing Catalog Number	Color Code	GOTCHA® Ring Catalog Number
¼, ⅜, ½	.062"-.125" (1.58-3.17)	F1	<b>31518101BPK100</b>	Green	<b>31648035GPK100</b>
	.125"-.187" (3.17-4.76)		<b>31518102BPK100</b>	Orange	<b>31648036GPK100</b>
	.187"-.250" (4.76-6.35)		<b>31518103BPK100</b>	Red	<b>31648037GPK100</b>
	.250"-.312" (6.35-7.93)		<b>31518104BPK100</b>	Black	<b>31648038GPK100</b>
	.312"-.375" (7.93-9.50)		<b>31518105BPK100</b>	White	<b>31605010GPK100</b>
	.375"-.437" (9.50-11.1)		<b>31518106BPK100</b>	Blue	<b>31648039GPK100</b>
½, ¾	.187"-.250" (4.76-6.35)	F2	<b>31518110BPK100</b>	Red	<b>31648042GPK100</b>
	.250"-.375" (6.35-9.50)		<b>31518111BPK100</b>	White	<b>31605015GPK100</b>
	.375"-.500" (9.50-12.7)		<b>31518112BPK100</b>	Blue	<b>31648043GPK100</b>
	.500"-.625" (12.7-15.8)		<b>31518113BPK100</b>	Brown	<b>31648044GPK100</b>
½, ¾	.375"-.500" (9.50-12.7)	F3	<b>31518116BPK100</b>	Blue	<b>31648045GPK100</b>
	.500"-.625" (12.7-15.8)		<b>31518117BPK100</b>	Brown	<b>31648046GPK100</b>
	.625"-.750" (15.8-19.0)		<b>31518118BPK100</b>	Yellow	<b>31648047GPK100</b>
	.750"-.875" (19.0-22.2)		<b>31518119BPK100</b>	Orchid	<b>31648048GPK100</b>
1	.500"-.625" (12.7-15.8)	F4	<b>31518123BPK100</b>	Brown	<b>31648050GPK100</b>
	.625"-.750" (15.8-19.0)		<b>31518124BPK100</b>	Yellow	<b>31648051GPK100</b>
	.750"-.875" (19.0-22.2)		<b>31518125BPK100</b>	Orchid	<b>31648052GPK100</b>
	.875"-1.00" (22.2-25.4)		<b>31518126BPK100</b>	Gray	<b>31648053GPK100</b>
	1.00"-1.125" (25.4-28.5)		<b>31518127BPK100</b>	Pink	<b>31648054GPK100</b>

Note: Catalog numbers above with "PK100" suffix, i.e. 31518101BPK100, are bulk packed 100 per carton



### Locknuts and Metal Clad Sealing O-Rings

NPT Hub Size	Zinc-Plated Steel Locknuts	Non-Metallic Locknuts	Metal Clad Sealing O-Rings*
¼	—	<b>31622001LPK50</b>	—
⅜	—	<b>31622002LPK50</b>	—
½	<b>00322001LPK50</b>	<b>31622003LPK50</b>	<b>20509001</b>
¾	<b>00322002LPK50</b>	<b>31622007LPK50</b>	<b>20509002</b>
1	<b>00322003LPK50</b>	<b>31622008LPK50</b>	<b>20509003</b>
1¼	<b>00322004LPK50</b>	—	<b>20509004</b>
1½	<b>00322005LPK50</b>	—	<b>20509005</b>
2	—	—	<b>20509006</b>
2½	—	—	<b>20509007</b>
3	—	—	<b>20509008</b>

Note: Catalog numbers above with "PK50" suffix, i.e. 00322001LPK50, are bulk packed 50 per carton.

See page V-87 for technical information and dimensional drawings.

\*UL listed and CSA certified.

## Features and Benefits

### Hubbell Juniors® Miniature Nylon Cord Connectors

Hubbell Juniors are a miniature liquidtight version of the full-sized Hubbell cord connectors. They feature the same GOTCHA® ring technology and neoprene bushings.

They also come with or without a nylon spiral for arc-offend control and longer cord life. They are available in ¼", ⅜", and ½" NPT sizes in both gray and black.



HJ1040GPK25



#### Liquidtight Seal

- Lubricated neoprene bushing compresses evenly for a liquidtight seal and added pull-out protection
- Nylon connector body is a one-piece design with a tapered interior that seals the bushing evenly for a positive seal



#### Connector Body

- Nylon spiral provides arc-of-bend control for cord protection
- Threaded hexagon shaped nylon locknut secures tightly and is also corrosion resistant



#### Connector Protection

- Patented GOTCHA® ring incorporates a split hinge design to prevent friction and provide strain relief
- Nylon compression nut has a tapered interior dome to easily drive the bushing into the connector body



#### Comprehensive Offering

- Hubbell Juniors are a miniature liquidtight version of the full-sized Hubbell cord connectors and feature the same GOTCHA® ring technology and neoprene bushings

## Hubbell Juniors® Miniature Nylon Cord Connectors

### Miniature Nylon Cord Connector

NPT Hub Size	Cord Diameter Range Inches (mm)	Black	Gray
¼	.08"-.14" (1.9-3.4)	HJ1001BPK25	HJ1001GPK25
	.14"-.20" (3.4-5.1)	HJ1002BPK25	HJ1002GPK25
	.20"-.27" (5.1-6.7)	HJ1003BPK25	HJ1003GPK25
⅜	.15"-.21" (3.7-5.3)	HJ1004BPK25	HJ1004GPK25
	.21"-.28" (5.3-7.0)	HJ1005BPK25	HJ1005GPK25
	.28"-.34" (7.0-8.6)	HJ1006BPK25	HJ1006GPK25
½	.06"-.13" (1.6-3.2)	HJ1055BPK25	HJ1055GPK25
	.13"-.19" (3.2-4.7)	HJ1056BPK25	HJ1056GPK25
	.19"-.25" (4.7-6.3)	HJ1057BPK25	HJ1057GPK25
	.25"-.31" (6.3-7.9)	HJ1058BPK25	HJ1058GPK25
	.31"-.38" (7.9-9.5)	HJ1059BPK25	HJ1059GPK25
	.38"-.44" (9.5-11.1)	HJ1060BPK25	HJ1060GPK25



Black Cord Connector



Gray Cord Connector

### Miniature Nylon Cord Connector with Spiral

NPT Hub Size	Cord Diameter Range Inches (mm)	Black	Gray
¼	.08"-.14" (1.9-3.4)	HJ1010BPK25	HJ1010GPK25
	.14"-.20" (3.4-5.1)	HJ1011BPK25	HJ1011GPK25
	.20"-.27" (5.1-6.7)	HJ1012BPK25	HJ1012GPK25
⅜	.15"-.21" (3.7-5.3)	HJ1013BPK25	HJ1013GPK25
	.21"-.28" (5.3-7.0)	HJ1014BPK25	HJ1014GPK25
	.28"-.34" (7.0-8.6)	HJ1015BPK25	HJ1015GPK25
½	.13"-.19" (3.2-4.7)	HJ1038BPK25	HJ1038GPK25
	.19"-.25" (4.7-6.3)	HJ1039BPK25	HJ1039GPK25
	.25"-.31" (6.3-7.9)	HJ1040BPK25	HJ1040GPK25
	.31"-.38" (7.9-9.5)	HJ1041BPK25	HJ1041GPK25
	.38"-.44" (9.5-11.1)	HJ1042BPK25	HJ1042GPK25
¾	.25"-.49" (6.4-12.3)	HJ1043BPK25*	HJ1043GPK25*
	.45"-.71" (11.4-18.0)	HJ1044BPK25*	HJ1044GPK25*



Black Cord Connector with Spiral



Gray Cord Connector with Spiral

Note: \*Locknuts sold separately, see page V-75 for additional information.

### Miniature Nylon Snap-In Cord Connector with Spiral

Cord Diameter Range Inches (mm)	For Chassis Thickness	Black	Gray
.22"-.27" (5.6-6.9)	.10" (2.5) Max	HS1001BPK25	HS1001GPK25
.28"-.32" (7.1-8.1)	.10" (2.5) Max	HS1002BPK25	HS1002GPK25
.30"-.36" (7.6-9.1)	.13" (3.2) Max	HS1003BPK25	HS1003GPK25
.32"-.43" (8.1-10.9)	.13" (3.2) Max	HS1004BPK25	HS1004GPK25

Note: Catalog numbers above with "PK25" suffix, i.e. HJ1001GPK25, are bulk packed 25 per carton. See page V-88 for technical information and dimensional drawings.



Black Snap-In Cord Connector



Gray Snap-In Cord Connector

## Operating Temperatures

Material	Temperature Range	
Aluminum	-40°F to +300°F	(-40°C to +149°C)
Nylon (connectors and GOTCHA® rings)	-40°F to +225°F	(-40°C to +107°C)
Plated steel*	-60°F to +1000°F	(-51°C to +537°C)
Stainless steel*	-60°F to +1000°F	(-51°C to +537°C)
Neoprene (bushings)	-30°F to +240°F	(-34°C to +115°C)

Note: \*Due to the limiting factors of nylon and neoprene, any complete cord connector with a GOTCHA ring, Form 1-5, will continuously perform in the range of -30°F to +225°F (-34°C to +107°C).

Cord connectors without GOTCHA rings, Form 6-8, will continuously operate in the range -30°F to +240°F (-34°C to +115°C) due to the limiting factor of neoprene.

## Hazardous Locations

Hubbell cord connectors are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 in accordance with the NEC.

## Flammability

Hubbell nylon cord connectors have a UL 94-V2 rating.

## Approvals

### Agency

UL Listed in accordance with Standard 514B for indoor/outdoor use.

CSA Certified.

United States Coast Guard Approved, Title 46-Part 111.

## Form Size Definition

The term "Form Size" refers to the physical overall size of a cord connector.

Form 1 is the smallest size.

Form 8 is the largest size.

## Knockout Holes

NPT Hub Size	Knockout Hole Recommended		PG Hub Size	Knockout Hole Recommended		Metric Hub Size	Knockout Hole Recommended	
	Min.	Max.		Inches	(mm)		Inches	(mm)
¼	.54"	.57"	PG7	.492"	(12.5)	M12	.472"	(12)
⅜	.67"	.70"	PG9	.599"	(15.2)	M16	.629"	(16)
½	.86"	.91"	PG11	.733"	(18.6)	M20	.787"	(20)
¾	1.04"	1.09"	PG13.5	.804"	(20.4)	M25	.984"	(25)
1	1.36"	1.41"	PG16	.888"	(22.5)	M32	1.25"	(32)
1¼	1.72"	1.77"	PG21	1.15"	(28.3)	M40	1.57"	(40)
1½	1.97"	2.02"	PG29	1.47"	(34.3)			
2	2.45"	2.50"	PG36	1.85"	(47.0)			
2½	2.95"	3.00"						
3	3.58"	3.63"						

## NPT, PG and Metric Thread Low Profile Connectors

### Specifications

Material	6/6 Nylon.
Gland	Buna N.
Temperature Range	-22°F to 225°F (-30°C to 107°C).
	Cord Connectors are Halogen and Silicon free.
Protection Class	IP66 Suitability.
Flammability	UL 94V-2.
Listings/Certifications	UL Listing File E-41567, UL Recognition File E-41567. CSA File LR27378C, VDE Marks Licence #136681.

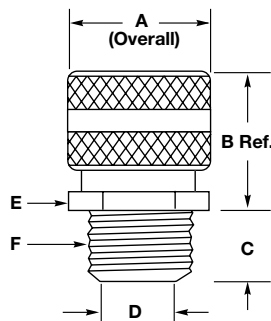


SECP29G

## Straight Hubbell Connectors

F NPT Inches	Aluminum Inches (mm)						Nylon Inches (mm)						
	Form	A Dia.	B Ref.	C	D Throat Dia.	E		A Dia.	B Ref.	C	D Throat Dia.	E	
						A/C*	A/F*					A/C*	A/F*
¼-18	1	.88" (22.4)	.90" (22.9)	.46" (11.7)	.32" (8.1)	.99" (25.1)	.88" (22.4)	1.00" (25.4)	1.10" (27.9)	.43" (10.9)	.33" (8.4)	1.00" (25.4)	.93" (23.6)
¾-18	1	.88" (22.4)	.90" (22.9)	.46" (11.7)	.44" (11.2)	.99" (25.1)	.88" (22.4)	1.00" (25.4)	1.10" (27.9)	.43" (10.9)	.45" (11.4)	1.00" (25.4)	.93" (23.6)
½-14	1	.88" (22.4)	.90" (22.9)	.46" (11.7)	.44" (11.2)	1.00" (25.4)	.88" (22.4)	1.00" (25.4)	1.10" (27.9)	.46" (11.7)	.45" (11.4)	1.00" (25.4)	.93" (23.6)
½-14	2	1.13" (28.7)	1.10" (27.9)	.55" (14.0)	.64" (16.3)	1.11" (28.2)	1.00" (25.4)	1.32" (33.5)	1.50" (38.1)	.53" (13.5)	.58" (14.7)	1.25" (31.7)	1.12" (28.4)
½-14	3	1.38" (35.1)	1.50" (38.1)	.55" (14.0)	.64" (16.3)	1.40" (35.6)	1.25" (31.7)	—	—	—	—	—	—
¾-14	2	1.13" (28.7)	1.10" (27.9)	.55" (14.0)	.64" (16.3)	1.29" (32.8)	1.13" (28.7)	—	—	—	—	—	—
¾-14	3	1.38" (35.1)	1.50" (38.1)	.55" (14.0)	.82" (20.8)	1.40" (35.6)	1.25" (31.7)	1.56" (39.6)	1.60" (40.6)	.55" (14.0)	.77" (19.6)	1.44" (36.6)	1.31" (33.3)
1-11½	4	1.75" (44.4)	1.60" (40.6)	.71" (18.0)	1.02" (25.9)	1.81" (46.0)	1.62" (41.1)	1.88" (47.8)	1.75" (44.4)	.70" (17.8)	1.01" (25.7)	1.84" (46.7)	1.63" (41.4)
1-11½	5	2.31" (58.7)	1.70" (43.2)	.66" (16.8)	1.01" (25.7)	2.28" (57.9)	2.00" (50.8)	—	—	—	—	—	—
1¼-11½	5	2.31" (58.7)	1.70" (43.2)	.74" (18.8)	1.26" (32.0)	2.28" (57.9)	2.12" (53.8)	—	—	—	—	—	—
1½-11½	5	2.31" (58.7)	1.70" (43.2)	.74" (18.8)	1.38" (35.1)	2.28" (57.9)	2.12" (53.8)	—	—	—	—	—	—
1½-11½	6	3.00" (76.2)	2.20" (55.9)	.75" (19.0)	1.50" (38.1)	2.97" (75.4)	2.75" (69.8)	—	—	—	—	—	—
2-11½	6	3.00" (76.2)	2.20" (55.9)	.80" (20.3)	1.92" (48.8)	3.24" (82.4)	3.00" (76.2)	—	—	—	—	—	—
2-11½	7	3.85" (97.8)	2.70" (68.6)	.88" (22.4)	1.94" (49.3)	4.05" (102.9)	3.75" (95.2)	—	—	—	—	—	—
2½-8	7	3.85" (97.8)	2.70" (68.6)	1.30" (33.0)	2.32" (58.9)	4.34" (110.2)	4.02" (102.1)	—	—	—	—	—	—
2½-8	8	4.75" (120.6)	2.70" (68.6)	1.25" (31.7)	2.38" (60.5)	4.86" (123.4)	4.50" (114.3)	—	—	—	—	—	—
3-8	7	3.85" (97.8)	2.70" (68.6)	1.30" (33.0)	2.54" (64.5)	4.34" (110.2)	4.02" (102.1)	—	—	—	—	—	—
3-8	8	4.50" (114.3)	2.70" (68.6)	1.38" (35.1)	3.00" (76.2)	4.86" (123.4)	4.50" (114.3)	—	—	—	—	—	—

Note: \*A/C—Across Corners; A/F—Across Flats.



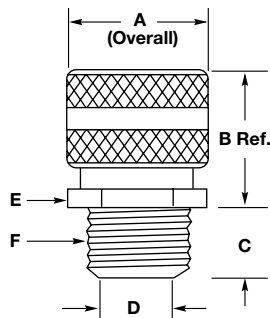
Dimensions shown are approximate and are subject to change without notice.



## Straight Hubbell Connectors

F NPT Inches	Zinc-Plated Steel Inches (mm)								Stainless Steel Inches (mm)						
	Form	A		B	C	D Throat Dia.	E		A		B	C	D Throat Dia.	E	
		A/C*	A/F*	Ref.			A/C*	A/F*	A/C*	A/F*	Ref.			A/C*	A/F*
¼-18	1	—	—	—	—	—	—	—	1.01" (25.7)	.88" (22.4)	.90" (22.9)	.46" (11.7)	.38" (9.7)	.87" (22.1)	.75" (19.0)
¾-18	1	.98" (24.9)	.88" (22.4)	.90" (22.9)	.42" (10.7)	.45" (11.4)	.99" (25.1)	.88" (22.4)	1.01" (25.7)	.88" (22.4)	.90" (22.9)	.46" (11.7)	.45" (11.4)	.87" (22.1)	.75" (19.0)
½-14	1	.98" (24.9)	.88" (22.4)	.90" (22.9)	.55" (14.0)	.45" (11.4)	1.00" (25.4)	.88" (22.4)	—	—	—	—	—	—	—
½-14	2	1.27" (32.3)	1.13" (28.7)	1.20" (30.5)	.55" (14.0)	.64" (16.3)	1.10" (28.2)	1.00" (25.4)	1.30" (33.0)	1.13" (28.7)	1.10" (27.9)	.54" (13.7)	.63" (16.0)	1.16" (29.5)	1.00" (25.4)
½-14	3	1.55" (39.4)	1.38" (35.1)	1.50" (38.1)	.55" (14.0)	.64" (16.3)	1.40" (35.6)	1.25" (31.7)	—	—	—	—	—	—	—
¾-14	2	1.27" (32.3)	1.13" (28.7)	1.20" (30.5)	.55" (14.0)	.64" (16.3)	1.29" (32.8)	1.13" (28.7)	—	—	—	—	—	—	—
¾-14	3	1.55" (39.4)	1.38" (35.1)	1.40" (35.6)	.55" (14.0)	.82" (20.8)	1.40" (35.6)	1.25" (31.7)	1.59" (40.4)	1.38" (35.1)	1.30" (33.0)	.56" (14.2)	.81" (20.6)	1.44" (36.6)	1.25" (31.7)
1-1½	3	1.55" (39.4)	1.38" (35.1)	1.40" (35.6)	.70" (17.8)	.89" (22.6)	1.54" (39.1)	1.38" (35.1)	—	—	—	—	—	—	—
1-1½	4	1.92" (48.8)	1.69" (42.9)	1.60" (40.6)	.70" (17.8)	1.02" (25.9)	1.95" (49.5)	1.69" (42.9)	2.02" (51.3)	1.75" (44.4)	1.40" (35.6)	.70" (17.8)	1.03" (26.2)	1.88" (47.8)	1.63" (41.4)
1-1½	5	2.40" (61.0)	—	1.70" (43.2)	.70" (17.8)	1.02" (25.9)	2.46" (62.5)	2.15" (54.6)	—	—	—	—	—	—	—
1¼-1½	5	2.40" (61.0)	—	1.70" (43.2)	.73" (18.5)	1.27" (32.3)	2.48" (63.0)	2.19" (55.6)	—	—	—	—	—	—	—
1½-1½	5	2.40" (61.0)	—	1.70" (43.2)	.74" (18.8)	1.39" (35.3)	2.48" (63.0)	2.19" (55.6)	—	—	—	—	—	—	—
1½-1½	6	3.06" (77.7)	—	2.20" (55.9)	.75" (19.0)	1.52" (38.6)	3.04" (77.2)	2.83" (71.9)	—	—	—	—	—	—	—
2-1½	6	3.06" (77.7)	—	2.20" (55.9)	.78" (19.8)	1.92" (48.8)	3.32" (84.3)	3.07" (78.0)	—	—	—	—	—	—	—
2-1½	7	3.95" (100.3)	—	2.70" (68.6)	.78" (19.8)	1.99" (50.5)	4.18" (106.2)	3.89" (98.8)	—	—	—	—	—	—	—

Note: \*A/C— Across Corners; A/F—Across Flats.



Dimensions shown are approximate and are subject to change without notice.

## 45° Hubbell Connectors

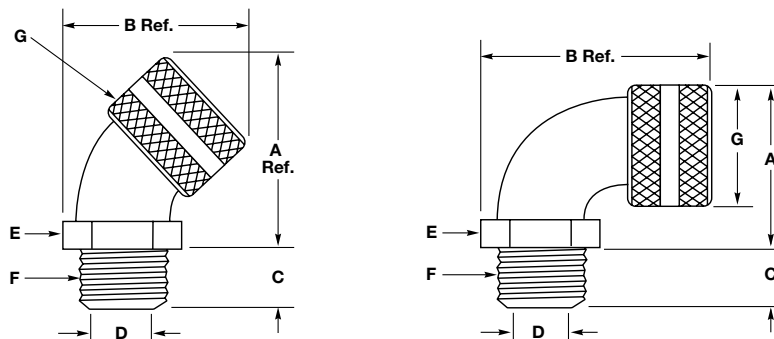
F NPT Inches	Aluminum Inches (mm)								Zinc Plated Steel Inches (mm)							
	Form	A Dia.	B Ref.	C	D Throat Dia.	E		G Dia.	A Dia.	B Ref.	C	D Throat Dia.	E		G	
						Across Corners	Across Flats						Across Corners	Across Flats		
1/2-14	2	2.00" (50.8)	1.90" (48.3)	.55" (14.0)	.56" (14.2)	1.27" (32.3)	1.10" (27.9)	1.13" (28.6)	1.97" (50.0)	1.90" (48.3)	.55" (14.0)	.57" (14.4)	1.24" (31.5)	1.06" (26.9)	1.27" (32.3)	1.13" (28.6)
3/4-14	3	2.30" (58.4)	2.50" (65.3)	.56" (14.2)	.75" (19.0)	1.48" (37.6)	1.28" (32.5)	1.38" (34.9)	—	—	—	—	—	—	—	—
1-11½	4	2.60" (66.0)	2.80" (71.1)	.70" (17.8)	1.00" (25.4)	1.69" (42.9)	1.50" (38.1)	1.75" (44.4)	—	—	—	—	—	—	—	—
1½-11½	5	3.90" (99.1)	3.90" (99.1)	.74" (18.8)	1.25" (31.7)	2.45" (62.2)	2.13" (54.0)	2.31" (58.7)	—	—	—	—	—	—	—	—
1½-11½	5	3.90" (99.1)	3.90" (99.1)	.74" (18.8)	1.50" (38.1)	2.45" (62.2)	2.13" (54.0)	2.31" (58.7)	—	—	—	—	—	—	—	—

## 90° Hubbell Connectors

F NPT Inches	Aluminum Inches (mm)								Zinc Plated Steel Inches (mm)							
	Form	A Dia.	B Ref.	C	D Throat Dia.	E		G Dia.	A Dia.	B Ref.	C	D Throat Dia.	E		G	
						Across Corners	Across Flats						Across Corners	Across Flats		
3/8-18	1	1.27" (32.3)	2.00" (50.8)	.46" (11.7)	.44" (11.2)	1.15" (29.2)	1.10" (27.9)	.88" (22.2)	—	—	—	—	—	—	—	—
1/2-14	2	1.56" (39.6)	2.30" (58.4)	.50" (12.7)	.55" (13.9)	1.30" (33.0)	1.13" (28.7)	1.13" (28.6)	1.65" (41.9)	2.38" (60.5)	.55" (14.0)	.55" (13.8)	1.29" (32.8)	1.13" (28.7)	1.27" (32.3)	1.13" (28.6)
3/4-14	3	1.79" (45.5)	2.80" (71.1)	.56" (14.2)	.77" (19.4)	1.49" (37.8)	1.31" (33.3)	1.38" (34.9)	1.88" (47.8)	2.90" (73.7)	.56" (14.2)	.77" (19.4)	1.52" (38.6)	1.33" (33.8)	1.55" (39.2)	1.38" (34.9)
1-11½	4	2.08" (52.8)	3.20" (81.3)	.70" (17.8)	1.00" (25.4)	1.70" (43.2)	1.50" (38.1)	1.75" (44.4)	2.16" (54.9)	3.20" (81.3)	.70" (17.8)	1.00" (25.4)	1.72" (43.7)	1.50" (38.1)	1.92" (48.8)	1.69" (42.8)
1¼-11½	5	3.18" (80.8)	4.30" (109.2)	.73" (18.5)	1.26" (32.0)	2.47" (62.7)	2.15" (54.6)	2.31" (58.7)	—	—	—	—	—	—	—	—
1½-11½	5	3.18" (80.8)	4.30" (109.2)	.75" (19.2)	1.50" (38.1)	2.47" (62.7)	2.15" (54.6)	2.31" (58.7)	—	—	—	—	—	—	—	—
2-11½	6	3.51" (89.2)	5.50" (139.7)	.80" (20.3)	1.92" (48.8)	2.98" (75.7)	2.78" (70.6)	3.00" (76.2)	—	—	—	—	—	—	—	—

## 90° Hubbell Connectors

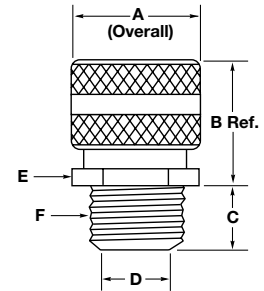
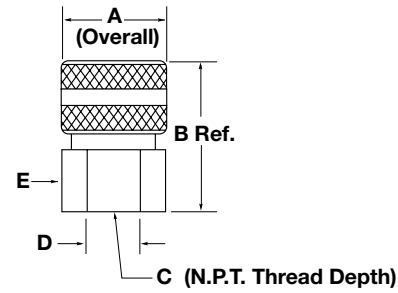
F NPT Inches	Nylon Inches (mm)							
	Form	A Dia.	B Ref.	C	D Throat Dia.	E		G Dia.
						Across Corners	Across Flats	
3/8-18	1	—	—	—	—	—	—	—
1/2-14	2	1.41" (35.8)	2.50" (63.5)	.55" (14.0)	.58" (14.6)	1.23" (31.2)	1.12" (28.2)	1.32" (33.4)
3/4-14	3	1.65" (41.9)	2.81" (71.4)	.56" (14.2)	.77" (19.4)	1.42" (36.1)	1.29" (32.8)	1.56" (39.6)
1-11½	4	1.99" (50.5)	3.30" (83.8)	.70" (17.8)	1.01" (25.7)	1.82" (46.2)	1.60" (40.6)	1.88" (47.6)



Dimensions shown are approximate and are subject to change without notice.

## Female Hubbell Connectors

Aluminum Inches (mm)							
F NPT Inches	Form	A	B	C	D	E	
		Dia.	Ref.		Throat Dia.	Across Corners	Across Flats
¾-18	1	.88" (22.4)	1.40" (35.6)	.56" (14.2)	.44" (11.2)	.94" (23.9)	.81" (20.6)
½-14	2	1.13" (28.7)	1.80" (45.7)	.56" (14.2)	.63" (16.0)	1.15" (29.2)	1.00" (25.4)
¾-14	2	1.13" (28.7)	2.10" (53.3)	.75" (19.0)	.63" (16.0)	1.44" (36.6)	1.25" (31.7)
1-11½	4	1.75" (44.5)	2.30" (58.4)	.88" (22.4)	1.10" (27.9)	1.88" (47.8)	1.63" (41.4)
1¼-11½	5	2.31" (58.7)	2.80" (71.1)	.95" (24.1)	1.43" (36.3)	2.64" (67.1)	2.29" (58.2)
1½-11½	5	2.31" (58.7)	2.80" (71.1)	.95" (24.1)	1.43" (36.3)	2.64" (67.1)	2.29" (58.2)



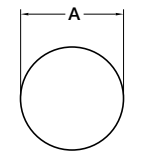
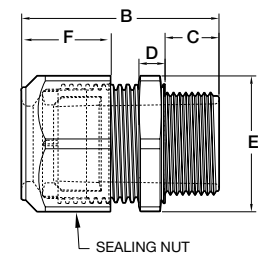
## Underground Feeder Connectors

F NPT Inches	Form	Aluminum Inches (mm)						Zinc-Plated Steel Inches (mm)						Nylon Inches (mm)						
		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		
		Dia.	Ref.		Throat Dia.	A/C*	A/F*	A/C*	A/F*	Ref.	Throat Dia.	A/C*	A/F*	Dia.	Ref.		Throat Dia.	A/C*	A/F*	
½-14	2	1.13" (28.7)	1.10" (27.9)	.55" (14.0)	.64" (16.3)	1.10" (27.9)	1.00" (25.4)	1.27" (32.3)	1.13" (28.7)	1.20" (30.5)	.55" (14.0)	.64" (16.3)	1.11" (28.2)	1.00" (25.4)	1.32" (33.5)	1.50" (38.1)	.55" (14.0)	.58" (14.7)	1.25" (31.7)	1.13" (28.7)
¾-14	2	1.13" (28.7)	1.10" (27.9)	.55" (14.0)	.64" (16.3)	1.29" (32.8)	1.13" (25.4)	1.27" (32.3)	1.13" (28.7)	1.20" (30.5)	.55" (14.0)	.64" (16.3)	1.29" (32.8)	1.13" (28.7)	—	—	—	—	—	—
¾-14	3	1.13" (28.7)	1.50" (38.1)	.55" (14.0)	.82" (20.8)	1.40" (35.6)	1.25" (31.7)	1.55" (39.4)	1.38" (35.1)	1.40" (35.6)	.56" (14.2)	.82" (20.8)	1.40" (35.6)	1.25" (31.7)	1.56" (39.6)	1.60" (40.6)	.56" (14.2)	.77" (19.6)	1.44" (36.6)	1.31" (33.3)

Note: \*A/C - Across Corners; A/F - Across Flats.

## Low Profile Non-Metallic NPT, PG and Metric Thread Connectors

Hub Size	Nylon Inches (mm)					
	A	B	C	D	E	F
¾ NPT	0.670" (17.0)	1.41" (35.8)	0.48" (12.4)	0.21" (5.3)	0.83" (21.0)	0.55" (14.0)
½ NPT	0.875" (22.2)	1.70" (43.2)	0.61" (15.5)	0.21" (5.3)	0.88" (24.8)	0.66" (16.8)
¼ NPT	1.068" (27.1)	2.00" (50.8)	0.62" (15.7)	0.25" (6.3)	1.30" (33.0)	0.85" (21.6)
1 NPT	1.375" (35.0)	2.41" (61.2)	0.76" (19.3)	0.30" (7.6)	1.73" (43.9)	1.05" (26.7)
PG7	0.492" (12.5)	1.16" (29.5)	0.32" (8.1)	0.21" (5.3)	0.63" (16.0)	0.48" (12.4)
PG9	0.599" (15.2)	1.25" (31.8)	0.32" (8.1)	0.21" (5.3)	0.83" (21.0)	0.55" (14.0)
PG11	0.733" (18.6)	1.48" (37.6)	0.38" (9.7)	0.21" (5.3)	0.94" (23.9)	0.70" (17.8)
PG13.5	0.804" (20.4)	1.53" (38.9)	0.41" (10.4)	0.21" (5.3)	0.98" (24.9)	0.66" (16.8)
PG16	0.888" (22.5)	1.68" (42.7)	0.44" (11.2)	0.25" (6.4)	1.06" (27.0)	0.76" (19.3)
PG21	1.15" (28.3)	1.89" (48.0)	0.52" (13.2)	0.25" (6.4)	1.30" (33.0)	.085" (21.6)
PG29	1.47" (37.30)	2.23" (56.6)	0.58" (14.7)	0.30" (7.6)	1.73" (43.9)	1.05" (26.7)
PG36	1.85" (47.0)	2.39" (60.7)	0.47" (11.9)	0.31" (7.9)	2.05" (52.7)	1.19" (30.2)
M12	0.473" (12.0)	1.16" (29.5)	0.32" (8.1)	0.21" (5.3)	0.63" (16.0)	0.49" (12.4)
M16	0.630" (16.0)	1.25" (31.8)	0.32" (8.1)	0.21" (5.3)	0.83" (21.0)	0.55" (14.0)
M20	0.787" (20.0)	1.53" (38.9)	0.41" (10.4)	0.21" (5.3)	0.98" (24.9)	0.66" (16.8)
M25	0.985" (25.0)	1.89" (48.0)	0.52" (13.2)	0.25" (6.3)	1.30" (33.0)	0.85" (21.6)
M32	1.260" (32.0)	2.23" (56.6)	0.58" (14.7)	0.30" (7.6)	1.73" (43.9)	1.05" (26.7)
M40	1.575" (40.0)	2.39" (60.7)	0.48" (12.2)	0.30" (7.6)	2.05" (52.1)	1.19" (30.2)



Recommended knockout size

Dimensions shown are approximate and are subject to change without notice.

# Kellems® Wire Management Products

## 2 Conductors

Cord Type	SVO, SV, SVT	SJ, SJO, SJT, SJTO				S, SO, ST, STO					
Cord Size	#18	#18	#16	#14	#18	#16	#14	#12	#10	#8	
Approx. Dia. Inches (mm)	.25" (6.2)	.31" (7.8)	.33" (8.4)	.37" (9.3)	.38" (9.7)	.40" (10.2)	.54" (13.7)	.62" (15.6)	.68" (17.1)	.81" (20.6)	
Color	Black	Black	White	White	Blue	Blue	Brown	Brown	Yellow	Orchid	
NPT	Form	Catalog Number*									
¼	1	<b>HC1004</b>	<b>HC1004</b>	<b>HC1005</b>	<b>HC1005</b>	<b>HC1006</b>	<b>HC1006</b>	—	—	—	—
⅜	1	<b>HC1010</b>	<b>HC1010</b>	<b>HC1011</b>	<b>HC1011</b>	<b>HC1012</b>	<b>HC1012</b>	—	—	—	—
½	1	<b>HC1016</b>	<b>HC1016</b>	<b>HC1017</b>	<b>HC1017</b>	<b>HC1018</b>	<b>HC1018</b>	—	—	—	—
½	2	<b>HC1022</b>	<b>HC1022</b>	<b>HC1022</b>	<b>HC1022</b>	<b>HC1023</b>	<b>HC1023</b>	<b>HC1024</b>	<b>HC1024</b>	—	—
½	3	—	—	—	—	<b>HC1025</b>	<b>HC1025</b>	<b>HC1026</b>	<b>HC1026</b>	<b>HC1027</b>	<b>HC1028</b>
¾	2	<b>HC1032</b>	<b>HC1032</b>	<b>HC1032</b>	<b>HC1032</b>	<b>HC1033</b>	<b>HC1033</b>	<b>HC1034</b>	<b>HC1034</b>	—	—
¾	3	—	—	—	—	<b>HC1035</b>	<b>HC1035</b>	<b>HC1036</b>	<b>HC1036</b>	<b>HC1037</b>	<b>HC1038</b>
1	4	—	—	—	—	<b>HC1039</b>	<b>HC1039</b>	<b>HC1040</b>	<b>HC1040</b>	<b>HC1041</b>	<b>HC1042</b>
1	5	—	—	—	—	—	—	—	—	—	<b>HC1045</b>
1¼	5	—	—	—	—	—	—	—	—	—	<b>HC1050</b>
1½	5	—	—	—	—	—	—	—	—	—	<b>HC1055</b>
1½	6	—	—	—	—	—	—	—	—	—	—
2	6	—	—	—	—	—	—	—	—	—	—
2	7	—	—	—	—	—	—	—	—	—	—
2½	7	—	—	—	—	—	—	—	—	—	—
3	7	—	—	—	—	—	—	—	—	—	—

Note: \*Must add prefix, see Note 1; suffix, see Note 2, on page V-86.  
 †F5 and larger will not be color coded.

## 3 Conductors

Cord Type	SVO, SV, SVT	SJ, SJO, SJT, SJTO				S, SO, ST, STO					
Cord Size	#18	#18	#16	#14	#18	#16	#14	#12	#10	#8	
Approx. Dia. Inches (mm)	.26" (6.5)	.33" (8.3)	.35" (8.9)	.39" (9.8)	.39" (9.9)	.42" (10.7)	.57" (14.4)	.65" (16.4)	.71" (18.0)	.85" (21.5)	
Color	Black	White	White	Blue	Blue	Blue	Brown	Yellow	Yellow	Orchid	
NPT	Form	Catalog Number*									
¼	1	<b>HC1004</b>	<b>HC1005</b>	<b>HC1005</b>	<b>HC1006</b>	<b>HC1006</b>	<b>HC1006</b>	—	—	—	—
⅜	1	<b>HC1010</b>	<b>HC1011</b>	<b>HC1011</b>	<b>HC1012</b>	<b>HC1012</b>	<b>HC1012</b>	—	—	—	—
½	1	<b>HC1016</b>	<b>HC1017</b>	<b>HC1017</b>	<b>HC1018</b>	<b>HC1018</b>	<b>HC1018</b>	—	—	—	—
½	2	<b>HC1022</b>	<b>HC1022</b>	<b>HC1022</b>	<b>HC1023</b>	<b>HC1023</b>	<b>HC1023</b>	<b>HC1024</b>	—	—	—
½	3	—	—	—	<b>HC1025</b>	<b>HC1025</b>	<b>HC1025</b>	<b>HC1026</b>	<b>HC1027</b>	<b>HC1027</b>	<b>HC1028</b>
¾	2	<b>HC1032</b>	<b>HC1032</b>	<b>HC1032</b>	<b>HC1033</b>	<b>HC1033</b>	<b>HC1033</b>	<b>HC1034</b>	—	—	—
¾	3	—	—	—	<b>HC1035</b>	<b>HC1035</b>	<b>HC1035</b>	<b>HC1036</b>	<b>HC1037</b>	<b>HC1037</b>	<b>HC1038</b>
1	4	—	—	—	<b>HC1039</b>	<b>HC1039</b>	<b>HC1039</b>	<b>HC1040</b>	<b>HC1041</b>	<b>HC1041</b>	<b>HC1042</b>
1	5	—	—	—	—	—	—	—	—	—	<b>HC1045</b>
1¼	5	—	—	—	—	—	—	—	—	—	<b>HC1050</b>
1½	5	—	—	—	—	—	—	—	—	—	<b>HC1055</b>
1½	6	—	—	—	—	—	—	—	—	—	—
2	6	—	—	—	—	—	—	—	—	—	—
2	7	—	—	—	—	—	—	—	—	—	—
2½	7	—	—	—	—	—	—	—	—	—	—
3	7	—	—	—	—	—	—	—	—	—	—

Note: \*Must add prefix, see Note 1; suffix, see Note 2, on page V-95.  
 †F5 and larger will not be color coded.

# Kellems® Wire Management Products

## 2 Conductors

Cord Type	SVO, SV, SVT				SJ, SJO, SJT, SJTO			S, SO, ST, STO			
Cord Size	#6	#4	#3	#2	#1	#1/0	#2/0	#3/0	#4/0	#250	
Approx. Dia. Inches (mm)	.94" (23.8)	1.08" (27.4)	1.17" (29.7)	1.27" (33.3)	1.44" (36.6)	1.52" (38.6)	1.65" (41.9)	1.77" (45.0)	1.92" (48.8)	2.16" (51.9)	
Color	Gray‡	Pink‡	‡	‡	‡	‡	‡	‡	‡	‡	
NPT	Form	Catalog Number*									
¼	1	—	—	—	—	—	—	—	—	—	—
¾	1	—	—	—	—	—	—	—	—	—	—
½	1	—	—	—	—	—	—	—	—	—	—
½	2	—	—	—	—	—	—	—	—	—	—
½	3	—	—	—	—	—	—	—	—	—	—
¾	2	—	—	—	—	—	—	—	—	—	—
¾	3	—	—	—	—	—	—	—	—	—	—
1	4	<b>HC1043</b>	<b>HC1044</b>	—	—	—	—	—	—	—	—
1	5	<b>HC1046</b>	<b>HC1047</b>	<b>HC1048</b>	<b>HC1049</b>	—	—	—	—	—	—
1¼	5	<b>HC1051</b>	<b>HC1052</b>	<b>HC1053</b>	<b>HC1054</b>	—	—	—	—	—	—
1½	5	<b>HC1056</b>	<b>HC1057</b>	<b>HC1058</b>	<b>HC1059</b>	—	—	—	—	—	—
1½	6	—	—	—	<b>HC1060</b>	<b>HC1061</b>	<b>HC1062</b>	<b>HC1063</b>	<b>HC1064</b>	—	—
2	6	—	—	—	<b>HC1065</b>	<b>HC1066</b>	<b>HC1067</b>	<b>HC1068</b>	<b>HC1069</b>	—	—
2	7	—	—	—	—	—	—	—	<b>HC1070</b>	<b>HC1071</b>	<b>HC1073</b>
2½	7	—	—	—	—	—	—	—	<b>HC1076</b>	<b>HC1077</b>	<b>HC1079</b>
3	7	—	—	—	—	—	—	—	<b>HC1086</b>	<b>HC1087</b>	<b>HC1089</b>

Note: \*Must add prefix, see Note 1; suffix, see Note 2, on page V-86.  
‡F5 and larger will not be color coded.

## 3 Conductors

Cord Type	SVO, SV, SVT				SJ, SJO, SJT, SJTO			S, SO, ST, STO			
Cord Size	#6	#4	#3	#2	#1	#1/0	#2/0	#3/0	#4/0	#250	
Approx. Dia. Inches (mm)	1.00" (25.4)	1.17" (29.7)	1.24" (31.5)	1.34" (34.0)	1.51" (38.4)	1.65" (41.9)	1.75" (44.5)	1.80" (48.0)	2.07" (52.6)	2.39" (60.7)	
Color	Gray‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
NPT	Form	Catalog Number*									
¼	1	—	—	—	—	—	—	—	—	—	—
¾	1	—	—	—	—	—	—	—	—	—	—
½	1	—	—	—	—	—	—	—	—	—	—
½	2	—	—	—	—	—	—	—	—	—	—
½	3	—	—	—	—	—	—	—	—	—	—
¾	2	—	—	—	—	—	—	—	—	—	—
¾	3	—	—	—	—	—	—	—	—	—	—
1	4	<b>HC1044</b>	—	—	—	—	—	—	—	—	—
1	5	<b>HC1047</b>	<b>HC1048</b>	<b>HC1048</b>	<b>HC1049</b>	—	—	—	—	—	—
1¼	5	<b>HC1052</b>	<b>HC1053</b>	<b>HC1053</b>	<b>HC1054</b>	—	—	—	—	—	—
1½	5	<b>HC1057</b>	<b>HC1058</b>	<b>HC1058</b>	<b>HC1059</b>	—	—	—	—	—	—
1½	6	—	—	—	<b>HC1060</b>	<b>HC1062</b>	<b>HC1063</b>	<b>HC1064</b>	—	—	—
2	6	—	—	—	<b>HC1065</b>	<b>HC1067</b>	<b>HC1068</b>	<b>HC1069</b>	—	—	—
2	7	—	—	—	—	—	—	<b>HC1070</b>	<b>HC1071</b>	<b>HC1073</b>	<b>HC1075</b>
2½	7	—	—	—	—	—	—	<b>HC1076</b>	<b>HC1077</b>	<b>HC1079</b>	<b>HC1081</b>
3	7	—	—	—	—	—	—	<b>HC1086</b>	<b>HC1087</b>	<b>HC1089</b>	<b>HC1091</b>

Note: \*Must add prefix, see Note 1; suffix, see Note 2, on page V-86.  
‡F5 and larger will not be color coded.



# Kellems® Wire Management Products

## 4 Conductors

Cord Type	SJ, SJO, SJT, SJTO			S, SO, ST, STO					
Cord Size	#18	#16	#14	#18	#16	#14	#12	#10	#8
Approx. Dia. Inches (mm)	.36" (9.0)	.39" (9.8)	.43" (10.8)	.42" (10.7)	.45" (11.4)	.61" (15.5)	.70" (17.8)	.77" (19.4)	.97" (24.6)
Color	White	Blue	Blue	Blue	Blue	Brown	Yellow	Orchid	Gray‡
NPT	Form	Catalog Number*							
¼	1	<b>HC1005</b>	<b>HC1006</b>	<b>HC1006</b>	<b>HC1006</b>	—	—	—	—
¾	1	<b>HC1011</b>	<b>HC1012</b>	<b>HC1012</b>	<b>HC1012</b>	—	—	—	—
½	1	<b>HC1017</b>	<b>HC1018</b>	<b>HC1018</b>	<b>HC1018</b>	—	—	—	—
½	2	<b>HC1022</b>	<b>HC1023</b>	<b>HC1023</b>	<b>HC1023</b>	<b>HC1023</b>	<b>HC1024</b>	—	—
½	3	—	<b>HC1025</b>	<b>HC1025</b>	<b>HC1025</b>	<b>HC1025</b>	<b>HC1026</b>	<b>HC1027</b>	<b>HC1028</b>
¾	2	—	<b>HC1033</b>	<b>HC1033</b>	<b>HC1033</b>	<b>HC1033</b>	<b>HC1034</b>	—	—
¾	3	—	<b>HC1035</b>	<b>HC1035</b>	<b>HC1035</b>	<b>HC1035</b>	<b>HC1036</b>	<b>HC1037</b>	<b>HC1038</b>
1	4	—	<b>HC1039</b>	<b>HC1039</b>	<b>HC1039</b>	<b>HC1039</b>	<b>HC1040</b>	<b>HC1041</b>	<b>HC1042</b>
1	5	—	—	—	—	—	—	—	<b>HC1046</b>
1¼	5	—	—	—	—	—	—	—	<b>HC1051</b>
1½	5	—	—	—	—	—	—	—	<b>HC1056</b>
1½	6	—	—	—	—	—	—	—	—
2	6	—	—	—	—	—	—	—	—
2	7	—	—	—	—	—	—	—	—
2½	7	—	—	—	—	—	—	—	—
3	7	—	—	—	—	—	—	—	—

Note: \*Must add prefix, see Note 1; suffix, see Note 2, on page V-86.  
‡F5 and larger will not be color coded.

## 5 Conductors

Cord Type	S, SO, ST, STO						
Cord Size	#18	#16	#14	#12	#10	#8	#6
Approx. Dia. Inches (mm)	.50" (12.7)	.54" (13.7)	.70" (17.7)	.76" (19.3)	.83" (21.1)	1.06" (26.9)	1.18" (30.0)
Color	Blue	Brown	Yellow	Orchid‡	Orchid‡	Pink‡	‡
NPT	Form	Catalog Number*					
½	2	<b>HC1023</b>	<b>HC1024</b>	—	—	—	—
½	3	<b>HC1025</b>	<b>HC1026</b>	<b>HC1027</b>	<b>HC1028</b>	<b>HC1028</b>	—
¾	2	<b>HC1033</b>	<b>HC1034</b>	—	—	—	—
¾	3	<b>HC1035</b>	<b>HC1036</b>	<b>HC1037</b>	<b>HC1038</b>	<b>HC1038</b>	—
1	4	<b>HC1039</b>	<b>HC1040</b>	<b>HC1041</b>	<b>HC1042</b>	<b>HC1042</b>	<b>HC1044</b>
1	5	—	—	—	<b>HC1045</b>	<b>HC1045</b>	<b>HC1047</b>
1¼	5	—	—	—	<b>HC1050</b>	<b>HC1050</b>	<b>HC1052</b>
1½	5	—	—	—	<b>HC1055</b>	<b>HC1055</b>	<b>HC1057</b>

Note: \*Must add prefix, see Note 1; suffix, see Note 2, on page V-86.  
‡F5 and larger will not be color coded.

## 4 Conductors

Cord Type	SJ, SJO, SJT, SJTO			S, SO, ST, STO						
Cord Size	#6	#4	#3	#2	#1	#1/0	#2/0	#3/0	#4/0	
Approx. Dia. Inches (mm)	.94" (23.8)	1.08" (27.4)	1.17" (29.7)	1.27" (33.3)	1.44" (36.6)	1.52" (38.6)	1.65" (41.9)	1.77" (45.0)	1.92" (48.8)	
Color	Pink‡	‡	‡	‡	‡	‡	‡	‡	‡	
NPT	Form	Catalog Number*								
¼	1	—	—	—	—	—	—	—	—	—
¾	1	—	—	—	—	—	—	—	—	—
½	1	—	—	—	—	—	—	—	—	—
½	2	—	—	—	—	—	—	—	—	—
½	3	—	—	—	—	—	—	—	—	—
¾	2	—	—	—	—	—	—	—	—	—
¾	3	—	—	—	—	—	—	—	—	—
1	4	<b>HC1044</b>	—	—	—	—	—	—	—	—
1	5	<b>HC1047</b>	<b>HC1049</b>	<b>HC1049</b>	—	—	—	—	—	—
1¼	5	<b>HC1052</b>	<b>HC1054</b>	<b>HC1054</b>	—	—	—	—	—	—
1½	5	<b>HC1057</b>	<b>HC1059</b>	<b>HC1059</b>	—	—	—	—	—	—
1½	6	—	<b>HC1060</b>	<b>HC1060</b>	<b>HC1061</b>	<b>HC1063</b>	<b>HC1064</b>	—	—	—
2	6	—	<b>HC1064</b>	<b>HC1065</b>	<b>HC1066</b>	<b>HC1068</b>	<b>HC1069</b>	—	—	—
2	7	‡	—	—	—	—	<b>HC1070</b>	<b>HC1071</b>	<b>HC1073</b>	<b>HC1074</b>
2½	7	—	—	—	—	—	<b>HC1076</b>	<b>HC1077</b>	<b>HC1079</b>	<b>HC1080</b>
3	7	—	—	—	—	—	<b>HC1086</b>	<b>HC1087</b>	<b>HC1089</b>	<b>HC1090</b>

Note: \*Must add prefix, see Note 1; suffix, see Note 2, below.  
 ‡F5 and larger will not be color coded.

### Note:

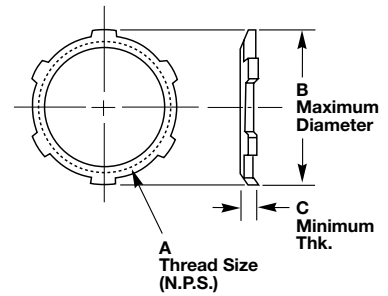
- Add the proper prefix to the HC number to identify the type of connector desired:  
 SHC = Straight Hubbell Connector  
 NHC = 90° Hubbell Connector  
 FHC = Female Hubbell Connector  
 VHC = 45° Hubbell Connector
- Add the proper suffix to identify material desired:  
 Aluminum = No suffix  
 Zinc-Plated Steel = ZP  
 Corrosion Resistant Nylon = CR  
 Stainless Steel = SS

- This chart is a general guide to assist in the selection of Hubbell Cord Connectors for various cord sizes. The Hubbell Cord Connector catalog numbers selected, have been inserted into spaces which in our judgment represent the best cord connector which will fit the listed cord size. The diameters of the cords are approximate and may vary depending on the manufacturer. It is suggested that the appropriate cord manufacturer's dimension chart be consulted for exact dimensions.
- Cable jacket may have to be stripped to allow conductors to pass through connector body.

## NPT Thread Locknuts

### Zinc-Plated Steel

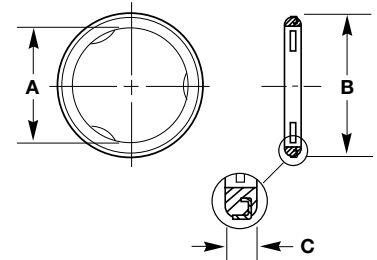
NPT Hub Size	A Inside Diameter Inches	B Outside Dia. Inches (mm)	C Thickness Inches (mm)	Steel Catalog Number
½	½"-14	1.14" (29.0)	.09" (2.3)	<b>00322001LPK50</b>
¾	¾"-14	1.43" (36.3)	.11" (2.8)	<b>00322002LPK50</b>
1	1"-11½	1.77" (45.0)	.13" (3.3)	<b>00322003LPK50</b>
1¼	1¼"-11½	2.28" (57.9)	.13" (3.3)	<b>00322004LPK50</b>
1½	1½"-11½	2.60" (66.0)	.13" (3.3)	<b>00322005LPK50</b>



## Metal Clad Sealing O-Rings – Sizes ½ - 4

### Zinc-Plated Steel with Neoprene Ring

NPT Hub Size	A Inside Diameter Inches (mm)	B Outside Dia. Inches (mm)	C Thickness Inches (mm)	Catalog Number
½	.80" (20.3)	1.08" (27.4)	.16" (3.2)	<b>20509001</b>
¾	1.00" (25.4)	1.34" (34.0)	.16" (3.2)	<b>20509002</b>
1	1.25" (31.6)	1.63" (41.4)	.16" (3.2)	<b>20509003</b>
1¼	1.61" (40.9)	2.00" (50.8)	.16" (3.2)	<b>20509004</b>
1½	1.84" (46.7)	2.36" (59.9)	.16" (3.2)	<b>20509005</b>
2	2.31" (58.7)	2.83" (71.9)	.16" (3.2)	<b>20509006</b>

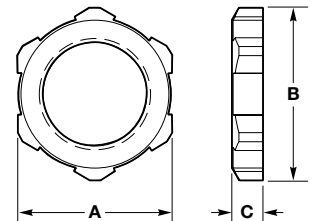


### Chrome Plated Steel with Neoprene Ring

2½	2.91" (73.9)	3.44" (87.4)	.24" (6.1)	<b>20509007</b>
3	3.52" (89.4)	4.08" (103.6)	.24" (6.1)	<b>20509008</b>

## Nylon PG Thread Locknuts

PG Thread Size	A Inches (mm)	B Inches (mm)	C Inches (mm)	Catalog Number
PG7	.75" (19.1)	.80" (20.3)	.22" (5.6)	<b>LNP7BPK100</b>
PG9	.86" (21.8)	.91" (23.2)	.22" (5.6)	<b>LNP9BPK100</b>
PG11	.94" (23.9)	1.03" (26.2)	.22" (5.6)	<b>LNP11BPK100</b>
PG13.5	1.06" (26.9)	1.14" (29.0)	.24" (6.1)	<b>LNP13BPK100</b>
PG16	1.18" (30.0)	1.30" (33.0)	.25" (6.1)	<b>LNP16BPK100</b>
PG21	1.41" (35.8)	1.54" (39.1)	.25" (6.1)	<b>LNP21BPK100</b>
PG29	1.81" (46.0)	2.00" (50.8)	.25" (6.1)	<b>LNP29BPK25</b>
PG36	2.24" (56.9)	2.50" (63.5)	.25" (6.1)	<b>LNP36BPK25</b>



## Nylon Metric Thread Locknuts

PG Thread Size	A Inches (mm)	B Inches (mm)	C Inches (mm)	Catalog Number
M12	.75" (19.1)	.82" (20.8)	.22" (5.6)	<b>LNM12BPK100</b>
M16	.87" (22.09)	.98" (25.0)	.22" (5.6)	<b>LNM16BPK100</b>
M20	1.06" (27.0)	1.18" (30.0)	.25" (6.4)	<b>LNM20BPK100</b>
M25	1.38" (35.1)	1.54" (39.1)	.28" (7.1)	<b>LNM25BPK100</b>
M32	1.61" (40.9)	1.80" (45.7)	.28" (7.1)	<b>LNM32BPK100</b>
M40	1.97" (50.0)	2.18" (55.4)	.28" (7.1)	<b>LNM40BPK100</b>

Dimensions shown are approximate and are subject to change without notice.

## Hubbell Juniors®

<b>Material</b>	<b>Operating Temperature Range</b>
Nylon (connectors and GOTCHA® rings)	-40°F to +225°F (-40°C to +107°C)
Neoprene (bushings)	-30°F to +240°F (-34°C to +115°C)

Due to the limiting factors of nylon and neoprene, any complete liquidtight Hubbell Junior will continuously perform in the range of -30°F to +225°F (-34°C to +107°C).

Snap-In continuously performs -40°F to +225°F (-40°C to +107°C).

### Flammability

Hubbell Juniors have a UL 94V-2 rating.

### Certifications

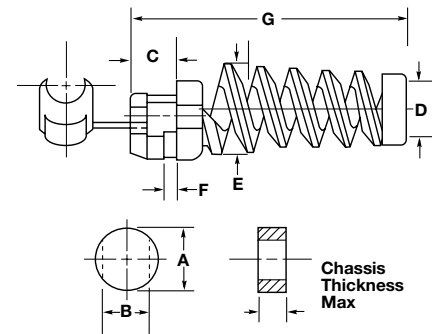
<b>Product</b>	<b>Agency</b>
Liquidtight and Liquidtight with Spiral	UL Listed. CSA Certified.
Snap-In	UL Recognized. CSA Certified.

## Knockout Holes

NPT Hub Size	Knockout Hole Recommended Min. to Max.	
	inches	(mm)
¼	.54"-.57"	(13.7-14.5)
⅜	.67"-.70"	(17.0-17.8)
½	.86"-.91"	(21.8-23.1)

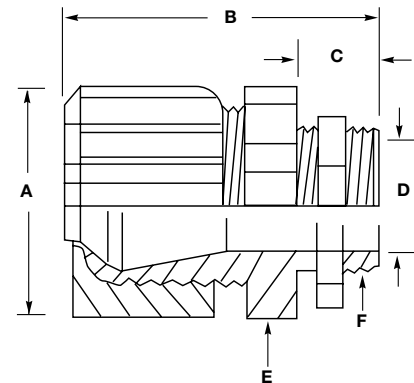
## Snap-In

Diameter Range Inches (mm)	For Chassis Thickness (Max.) Inches (mm)	Required Hole Size A Inches (mm)	B Inches (mm)	Dimensional Specifications				
				C Inches (mm)	D Inches (mm)	E Inches (mm)	F Inches (mm)	G Inches (mm)
.22"-.27" (5.6-6.9)	.10" (2.5)	.50" (12.7)	.45" (11.4)	.28" (7.1)	.28" (7.1)	.54" (13.7)	.12" (3.0)	1.84" (44.2)
.28"-.32" (7.1-8.1)	.10" (2.5)	.50" (12.7)	.47" (11.9)	.28" (7.1)	.33" (8.4)	.59" (15.0)	.12" (3.0)	1.84" (44.2)
.30"-.36" (7.6-9.1)	.13" (3.3)	.63" (16.0)	.55" (14.0)	.36" (9.1)	.37" (9.4)	.65" (16.5)	.14" (3.6)	2.18" (55.4)
.32"-.43" (8.1-10.9)	.13" (3.3)	.75" (19.0)	.66" (16.8)	.45" (11.4)	.44" (11.2)	.75" (19.1)	.14" (3.6)	2.60" (66.0)



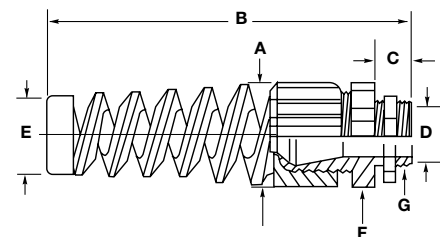
## Liquidtight

F NPT Inches	A Dia. Inches (mm)	B Ref. Inches (mm)	C Inches (mm)	D Throat Dia. Inches (mm)	E	
					Across Corners Inches (mm)	Across Flats Inches (mm)
¼-18	.65" (16.5)	1.30" (33.0)	.40" (10.2)	.29" (7.4)	.65" (16.5)	.60" (15.2)
⅜-18	.81" (20.6)	1.44" (36.6)	.41" (10.4)	.36" (9.1)	.81" (20.6)	.75" (19.1)
½-14	1.00" (25.4)	1.56" (39.6)	.46" (11.7)	.45" (11.4)	.99" (25.1)	.92" (23.4)



## Liquidtight with Spiral

G NPT Inches	A Dia. Inches (mm)	B Ref. Inches (mm)	C Inches (mm)	D Throat Dia. Inches (mm)	E Inches (mm)	F	
						Across Corners Inches (mm)	Across Flats Inches (mm)
¼-18	.65" (16.5)	2.55" (64.8)	.40" (10.2)	.29" (7.4)	.27" (6.9)	.65" (16.5)	.60" (15.2)
⅜-18	.81" (20.6)	3.10" (78.7)	.41" (10.4)	.36" (9.1)	.35" (8.9)	.81" (20.6)	.75" (19.1)
½-14	1.00" (25.4)	3.72" (94.5)	.46" (11.7)	.45" (11.4)	.45" (11.4)	.99" (25.1)	.92" (23.4)



Dimensions shown are approximate and are subject to change without notice.

# Kellems® Wire Management Products

## Features and Benefits

### PolyTuff® I and PolyTuff® II Non-Metallic Liquidtight Conduit

All non-metallic construction ends fatigue and separation problems. They can be cut cleanly with a knife or PVC cutter so there are no jagged metal edges.



#### PolyTuff® I Conduit, Gray

- Rigid PVC core bonded to flexible PVC jacket
- Approved for outdoor use and direct burial
- UL Listed and CSA Certified



#### PolyTuff® II Tubing, Black

- PVC core with corrugated walls bonded to PVC jacket
- Handles twists, turns, bends, switchbacks and straightaways with ease
- UL Recognized and CSA Certified

### PolyTuff® I Conduit

**IP66**  
SUITABILITY



Trade Size (metric designator)	Feet (m)	Catalog Number
3/8 (12)	100 (30.5)	<b>G1038</b>
1/2 (16)	100 (30.5)	<b>G1050</b>
3/4 (21)	100 (30.5)	<b>G1075</b>
1 (27)	100 (30.5)	<b>G1100</b>
1 1/4 (35)	100 (30.5)	<b>G1125</b>
1 1/2 (41)	50 (15.2)	<b>G1150</b>
2 (53)	50 (15.2)	<b>G1200</b>

Note: See pages V-58 and V-59, V-90 and V-91 for approved fittings.  
See pages V-92 and V-93 for technical information and dimensional drawings.



### PolyTuff® II Tubing

**IP66**  
SUITABILITY



Trade Size (metric designator)	Feet (m)	Catalog Number
1/4 (10)	100 (30.5)	<b>B2025</b>
3/8 (12)	100 (30.5)	<b>B2038</b>
1/2 (16)	100 (30.5)	<b>B2050</b>
3/4 (21)	100 (30.5)	<b>B2075</b>
1 (27)	100 (30.5)	<b>B2100</b>
1 1/4 (35)	100 (30.5)	<b>B2125</b>
1 1/2 (41)	50 (15.2)	<b>B2150</b>
2 (53)	50 (15.2)	<b>B2200</b>

Note: See page V-90 for approved fittings.  
See pages V-92 and V-93 for technical information and dimensional drawings.





## PolyTuff® Non-Metallic Liquidtight Fittings



P075NBKA



P075NGYA

### Straight with Male Non-Metallic Liquidtight Fittings

Trade Size (metric designator)	Black Catalog Number	Gray Catalog Number
¼ (10)	<b>F2025</b>	—
⅜ (12)	<b>P038NBKA</b>	<b>P038NGYA</b>
½ (16)	<b>P050NBKA</b>	<b>P050NGYA</b>
¾ (21)	<b>P075NBKA</b>	<b>P075NGYA</b>
1 (27)	<b>P100NBKA</b>	<b>P100NGYA</b>
1¼ (35)	<b>P125NBK</b>	<b>P125NGY</b>
1½ (41)	<b>P150NBK</b>	<b>P150NGY</b>
2 (53)	<b>P200NBK</b>	<b>P200NGY</b>

Note: Fittings are to be used with PolyTuff I and PolyTuff II.  
See pages V-94 and V-95 for technical information and dimensional drawings.  
¾" Liquidtight conduit fitting have ½ NPT male threads.



PS0509NGY

SwivelLok® Multi-Position

### SwivelLok® Multi-Position with Male Non-Metallic Liquidtight Fittings

Trade Size (metric designator)	Black Catalog Number	Gray Catalog Number
¾ (12)	<b>PS0389NBK</b>	<b>PS0389NGY</b>
½ (16)	<b>PS0509NBK</b>	<b>PS0509NGY</b>
¾ (21)	<b>PS0759NBK</b>	<b>PS0759NGY</b>
1 (27)	<b>PS1009NBK</b>	<b>PS1009NGY</b>

Note: Fittings are to be used with PolyTuff I and PolyTuff II.  
See pages V-94 and V-95 for technical information and dimensional drawings.  
¾" Liquidtight conduit fitting have ½ NPT male threads.



P0759NBK

P0759NGY

### Fixed 90° Fittings for Non-Metallic Conduit

Trade Size (metric designator)	Black Catalog Number	Gray Catalog Number
¾ (12)	<b>P0389NBK</b>	<b>P0389NGY</b>
½ (16)	<b>P0509NBK</b>	<b>P0509NGY</b>
¾ (21)	<b>P0759NBK</b>	<b>P0759NGY</b>
1 (27)	<b>P1009NBK</b>	<b>P1009NGY</b>
1¼ (35)	<b>P1259NBK</b>	<b>P1259NGY</b>

Note: Fittings are to be used with PolyTuff I and PolyTuff II.  
See pages V-94 and V-95 for technical information and dimensional drawings.  
¾" Liquidtight conduit fitting have ½ NPT male threads.



PS05GYKIT

### SwivelLok® Flexible Conduit Kit

Trade Size (metric designator)	Fitting and Conduit	Catalog Number
½ (16)	2 PS0509NGY, 6' G1050	<b>PS05GYKIT</b>
¾ (21)	2 PS0759NGY, 6' G1075	<b>PS07GYKIT</b>

Note: See pages V-94 and V-95 for technical information and dimensional drawings.

## Metallic Liquidtight Conduit Fittings

### Straight Conduit Fitting

Trade Size (metric designator)	Insulated	Non-Insulated
3/8 (12)	<b>H0381</b>	<b>H038</b>
1/2 (16)	<b>H0501</b>	<b>H050</b>
3/4 (21)	<b>H0751</b>	<b>H075</b>
1 (27)	<b>H1001</b>	<b>H100</b>
1 1/4 (35)	<b>H1251</b>	<b>H125</b>
1 1/2 (41)	<b>H1501</b>	<b>H150</b>
2 (53)	<b>H2001</b>	<b>H200</b>
2 1/2 (63)	<b>H2501</b>	<b>H250</b>
3 (78)	<b>H3001</b>	<b>H300</b>
3 1/2 (91)	<b>H3501</b>	<b>H350</b>
4 (103)	<b>H4001</b>	<b>H400</b>

Note: 3/8" Liquidtight conduit fitting have 1/2 NPT male threads.  
For use with Liquidtight Metal conduit and PolyTuff I Non-Metallic conduit.  
See page V-96 for technical information.



### 45° Conduit Fitting

Trade Size (metric designator)	Insulated	Non-Insulated
3/8 (12)	<b>H03841</b>	<b>H0384</b>
1/2 (16)	<b>H05041</b>	<b>H0504</b>
3/4 (21)	<b>H07541</b>	<b>H0754</b>
1 (27)	<b>H10041</b>	<b>H1004</b>
1 1/4 (35)	<b>H12541</b>	<b>H1254</b>
1 1/2 (41)	<b>H15041</b>	<b>H1504</b>
2 (53)	<b>H20041</b>	<b>H2004</b>

Note: 3/8" Liquidtight conduit fitting have 1/2 NPT male threads.  
For use with Liquidtight Metal conduit and PolyTuff I Non-Metallic conduit.  
See page V-96 for technical information.



### 90° Conduit Fitting

Trade Size (metric designator)	Insulated	Non-Insulated
3/8 (12)	<b>H03891</b>	<b>H0389</b>
1/2 (16)	<b>H05091</b>	<b>H0509</b>
3/4 (21)	<b>H07591</b>	<b>H0759</b>
1 (27)	<b>H10091</b>	<b>H1009</b>
1 1/4 (35)	<b>H12591</b>	<b>H1259</b>
1 1/2 (41)	<b>H15091</b>	<b>H1509</b>
2 (53)	<b>H20091</b>	<b>H2009</b>
2 1/2 (63)	<b>H25091</b>	<b>H2509</b>
3 (78)	<b>H30091</b>	<b>H3009</b>
4 (103)	<b>H40091</b>	<b>H4009</b>

Note: 3/8" Liquidtight conduit fitting have 1/2 NPT male threads.  
For use with Liquidtight Metal conduit and PolyTuff I Non-Metallic conduit.  
See page V-96 for technical information.



## PolyTuff® I Conduit

### Operating Temperature Range

Wet environment	0°F to +140°F (-18°C to +60°C).
Oil environment	0°F to +158°F (-18°C to +70°C).
Dry environment	0°F to +176°F (-18°C to +80°C).

### Certifications

UL Listed CSA Certified	UL Standard 1660. Sunlight resistant approved for outdoor use, direct burial. Meets requirements of NEC.
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### Voltage Rating

Maximum	600V.
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### Material

Conduit	Co-extruded rigid and flexible PVC.
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## PolyTuff® II Tubing

### Operating Temperature Range

Operating environment	0°F to +140°F (-18°C to +60°C).
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### Certifications

UL Recognized CSA Certified	
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### Voltage Rating

Maximum	Same as wire insulation rating.
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### Material

Tubing	Co-extruded rigid and flexible PVC.
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## PolyTuff® I Conduit

Trade Size (metric designator)	Conduit ID/OD		Bend Radius	
	Inches	(mm)	Inches	(mm)
¾ (12)	.49"/.70"	(12.6/17.8)	2.00"	(50.8)
½ (16)	.63"/.83"	(16.1/21.1)	3.00"	(76.2)
¾ (21)	.83"/1.04"	(21.1/26.4)	4.00"	(101.6)
1 (27)	1.05"/1.30"	(26.0/33.1)	5.00"	(127.0)
1¼ (35)	1.40"/1.65"	(35.4/41.8)	6.30"	(158.8)
1½ (41)	1.59"/1.88"	(40.3/47.8)	7.50"	(190.5)
2 (53)	2.03"/2.36"	(51.6/59.9)	10.00"	(254.0)

## PolyTuff® II Tubing

Trade Size (metric designator)	Conduit ID/OD		Bend Radius	
	Inches	(mm)	Inches	(mm)
¼ (10)	.36"/.57"	(9.3/14.5)	1.50"	(38.1)
¾ (12)	.49"/.70"	(12.6/17.8)	2.00"	(50.8)
½ (16)	.63"/.83"	(16.1/21.1)	2.00"	(50.8)
¾ (21)	.83"/1.04"	(21.1/26.4)	3.00"	(76.2)
1 (27)	1.05"/1.30"	(26.0/33.1)	3.00"	(76.2)
1¼ (35)	1.40"/1.65"	(35.4/41.8)	5.00"	(127.0)
1½ (41)	1.59"/1.88"	(40.3/47.8)	5.00"	(127.0)
2 (53)	2.03"/2.36"	(51.6/59.9)	5.00"	(127.0)

# Kellems® Wire Management Products

## PolyTuff® I and II Conduit/Tubing; PVC Chemical Resistance

Chemical	Conc.*	Temp.		Chemical	Conc.*	Temp.		Chemical	Conc.*	Temp.	
		70°F 21°C	150°F 66°C			70°F 21°C	150°F 66°C			70°F 21°C	150°F 66°C
Acetate Solvents		D	D	Coconut Oil		C	D	Lubricating Oils		A	A
Acetic Acid		B	C	Corn Oil		A	B	Magnesium Chloride		A	A
Acetic Acid (Glacial)		C	D	Cottonseed Oil		C	D	Magnesium Hydroxide		A	A
Acetone		D	D	Creosote		D	D	Magnesium Sulfate		A	A
Acrylonitrile		A	B	Cresol		C	D	Malathion 50 in Aromatics		D	D
Alcohols (Aliphatic)		C	C	Crysylic Acid		D	D	Malic Acid		A	A
Aluminum Chloride		A	A	Cyclohexane		B	C	Methyl Acetate		D	D
Aluminum Sulfate (Alums)		A	A	DDT Weed Killer		A	C	Methyl Alcohol		C	C
Ammonia (Anhydrous Liquids)		D	D	Dibutyl Phthalate		D	D	Methyl Bromide		D	D
Ammonia (Aqueous)		A	A	Diesel Oils		C	D	Methyl Ethyl Ketone		D	D
Ammoniated Latex		A	C	Diethylene Glycol		B	C	Methylene Chloride		D	D
Ammonium Chloride		A	A	Diethyl Ether		A	C	Mineral Oil			
Ammonium Hydroxide		A	A	Di-isodecyl Phthalate		D	D	Monochlorobenzene		A	A
Amyl Acetate		D	D	Diocetyl Phthalate		D	D	Muriatic Acid (see Hydrochloric Acid)			
Aniline Oils		D	D	Dow General Weed Killer (Phenol)		D	D	Naphtha		C	D
Aromatic Hydrocarbons		D	D	Dow General Weed Killer (H2O)		B	C	Naphthalene		D	D
Asphalt		D	D	Ethyl Alcohol		C	C	Nitric Acid	10%	A	B
ASTM Fuel A		C	C	Ethylene Chloride		D	D	Nitric Acid	35%	A	C
ASTM Fuel B		D	D	Ethylene Glycol		B	C	Nitric Acid	70%	D	D
ASTM #1 Oil		B	C	Ferric Chloride		A	A	Oleic Acid		A	C
ASTM #3 Oil		C	D	Ferric Sulfate		A	A	Oleum		D	D
Barium Chloride		A	A	Ferrous Chloride		A	A	Oxalic Acid		A	A
Barium Sulfide		A	A	Ferrous Sulfate		A	A	Pentachlorophenol in Oil		B	C
Barium Hydroxide		A	A	Formaldehyde		D	D	Pentane		C	D
Benzene (Benzol)		D	D	Fuel Oil		B	C	Perchloroethylene		B	C
Benzine (Petroleum Ether)		C	C	Furfural		C	C	Petroleum Ether		C	C
Black Liquor		A	A	Gallic Acid		A	A	Phenol		A	A
Bordeaux Mixture		A	A	Gasoline (Hi Test)		C	D	Phosphoric Acid	10%	A	A
Boric Acid		A	A	Glycerine		A	A	Pitch	50%	A	B
Butyl Acetate		D	D	Grease		A	C	Potassium Hydroxide		C	D
Butyl Alcohol		B	C	Green Sulfate Liquor		A	A	Sodium Cyanide		A	A
Calcium Hydroxide		A	A	Heptachlor in Petroleum Solvents		A	C	Stoddard Solvent		D	D
Calcium Hypochlorite		A	A	Heptane		C	D	Styrene		D	D
Carbolic Acid (Phenol)		B	C	Hexane		C	D	Sulfur Dioxide (liquid)		D	D
Carbon Dioxide		A	A	Hydrobromic Acid		A	A	Sulfuric Acid	50%	A	B
Carbon Disulfide		D	D	Hydrochloric Acid	10%	A	A	Sulfuric Acid	98%	D	D
Carbon Tetrachloride		D	D	Hydrochloric Acid	40%	C	C	Sulfurous Acid		B	C
Carbonic Acid		A	A	Hydrofluoric Acid	70%	D	D	Tall Oil		D	D
Casein		A	C	Hydrofluorosilicic Acid		A	A	Tannic Acid		A	A
Caustic Soda		A	B	Hydrofluorosilicic Acid	10%	A	A	Toluene		D	D
Chlorine Gas (wet)		D	D	Hydrogen Peroxide		A	B	Trichlorethylene		D	D
Chlorine Gas (dry)		D	D	Iso-Octane		C	C	Triethanol Amine		C	D
Chlorine (water solution)		C	D	Isopropyl Acetate		D	D	Tricresyl Phosphate (Skydrol)		D	D
Chlorobenzene		D	D	Isopropyl Acid		B	C	Turpentine		C	D
Chlorinated Hydrocarbons		D	D	Jet Fuels (JP-3, and 5)		C	D	Vinegar		A	B
Chromic Acid		B	C	Kerosene		C	C	Vinyl Chloride		D	D
Citric Acid		A	A	Ketones		D	D	Water		A	A
Coal Tar		D	D	Linseed Oil		A	A	White Liquor		A	A
								Xylene		D	D
								Zinc Chloride		A	A
								Zinc Sulfate		A	A

Note: \*Conc. = Concentration.

(All ratings apply to concentrated or saturated solutions unless otherwise specified.)

Chemical resistance ratings are based upon information supplied by the raw material manufacturers.

Use as a general guide only – samples should be tested by user under actual conditions.

### Rating Code

#### A-Excellent service

No harmful effect to reduce service life. Suitable for continuous service.

#### B-Good service life.

Moderate to minor effect. Good for intermittent service. Generally suitable for continuous service.

#### C-Fair or limited service.

Depends on operating conditions. Generally suitable for intermittent service. Not recommended for continuous service.

#### D-Unsatisfactory service.

Not recommended.

# Kellems® Wire Management Products

## PolyTuff® Fittings

### Operating Temperature\*

Nylon (Body, Nut, Gripping Ring and Locknut)	-40°F to +225°F (-40°C to +107°C).
Neoprene (Sealing Ring)	-30°F to +240°F (-34°C to +116°C).

### Flammability

Fire Gas Toxicity Product Testing	Nylon PolyTuff Fittings have a UL 94V-2 rating.
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### Certifications

UL Listed	UL50 Type 4X, 12 and 13.
CSA Certified	PolyTuff I Fittings, PolyTuff II Fittings.

## Liquidtight Fittings

### Operating Temperature\*\*

Steel/Malleable Iron (Nut, Body, Ferrule)	-60°F to +1000°F (-51°C to +538°C).
Nylon (Gland Ring)	-40°F to +225°F (-40°C to +107°C).

### Hazardous Locations - NEC Reference

Class I, Div. 2 - 501-10(A)(3)B  
Class II, Div. 1 - 502-10(A)(2)  
Class II, Div. 2 - 502-10(A)(3)  
Class III, Div. 1 - 503-10(A)(2)  
Class III, Div. 2 - 503-10(B)

### Certifications

UL Listed to UL 514B  
CSA Certified

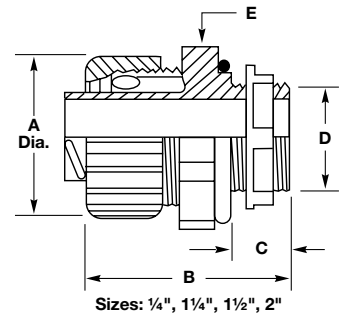
Note: \*Due to the limiting factors of nylon and neoprene, PolyTuff Fittings will continuously perform in the range -30°F to +225°F (-34°C to +107°C).

\*\*Due to the limiting factors of nylon, metallic liquidtight flexible conduit fittings will continuously perform in the range of -40°F to +225°F (-40°C to +107°C).



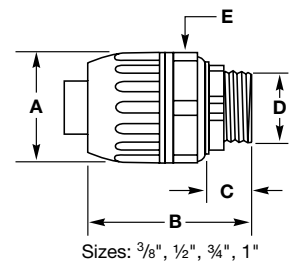
## Straight with Male Non-Metallic Liquidtight Fittings

Trade Size (md**)	A	B	C	D Throat Dia.	E	
					Across Corners	Across Flats
¼ (10)	.93" (23.6)	1.45" (36.8)	.39" (9.9)	.32" (8.1)	.86" (Dia.) (21.8)	
⅜ (12)	1.14" (29.0)	1.63" (41.4)	.57" (14.5)	.42" (10.7)	1.41" (35.8)	1.30" (33.0)
½ (16)	1.30" (33.0)	2.14" (54.4)	.57" (14.5)	.55" (14.0)	1.41" (35.8)	1.30" (33.0)
¾ (21)	1.53" (38.9)	2.22" (56.4)	.58" (14.7)	.74" (18.8)	1.85" (47.0)	1.53" (38.9)
1 (27)	1.80" (45.7)	2.32" (58.9)	.72" (18.3)	.96" (24.4)	1.94" (49.3)	1.80" (45.7)
1¼ (35)	2.20" (55.9)	2.15" (54.6)	.74" (18.8)	1.30" (33.0)	2.38" (60.5)	2.18" (55.4)
1½ (41)	2.49" (63.2)	2.35" (59.7)	.76" (19.3)	1.46" (37.1)	2.63" (66.8)	2.43" (61.7)
2 (53)	3.05" (77.4)	2.51" (63.6)	.79" (20.1)	1.90" (48.3)	3.13" (79.5)	2.93" (74.4)



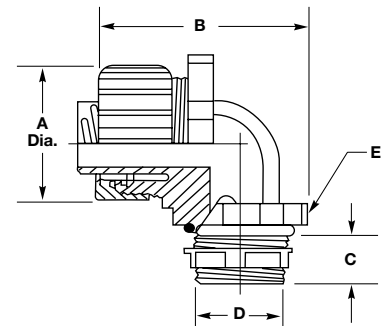
## 90° with Male Non-Metallic Liquidtight Fittings

Trade Size (md**)	A	B	C	D Throat Dia.	E	
					Across Corners	Across Flats
¼ (10)	.93" (23.6)	1.88" (47.8)	.39" (9.9)	.32" (8.1)	.86" (Dia.) (21.8)	
1¼ (35)	2.21" (56.1)	3.57" (90.7)	.74" (18.9)	1.30" (33.0)	2.38" (60.5)	2.18" (55.4)

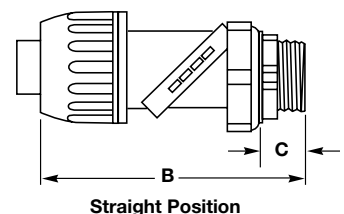
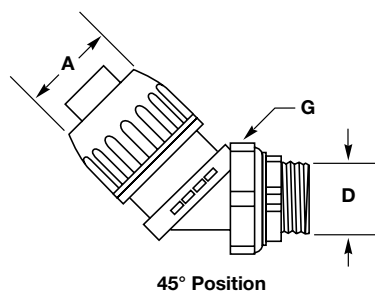
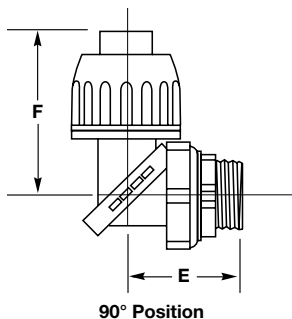


## SwivelLok® Multi-Position Liquidtight Fittings

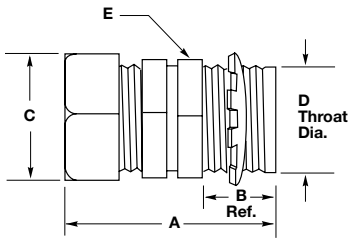
Trade Size (md**)	A	B	C	D	E	F	G	
							Across Corners	Across Flats
⅜ (12)	1.30" (33.0)	3.27" (83.1)	.57" (14.5)	.55" (14.0)	1.43" (36.3)	2.00" (50.8)	1.41" (35.8)	1.30" (33.0)
½ (16)	1.30" (33.0)	3.27" (83.1)	.57" (14.5)	.55" (14.0)	1.43" (36.3)	2.00" (50.8)	1.41" (35.8)	1.30" (33.0)
¾ (21)	1.53" (38.9)	3.66" (93.0)	.58" (15.7)	.74" (18.8)	1.59" (40.4)	2.23" (56.6)	1.65" (41.9)	1.53" (38.9)
1 (27)	1.80" (45.7)	4.00" (101.6)	.72" (18.3)	.96" (24.4)	1.84" (46.7)	2.30" (58.4)	1.94" (49.3)	1.80" (45.7)



Note: \*A/C = Across Corners, A/F = Across Flats.  
 \*\*md = metric designator.

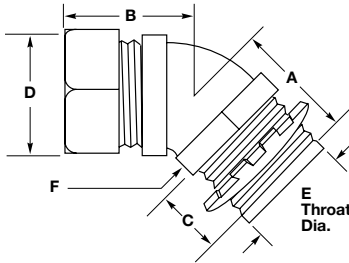


## Straight with Male Metallic Metal Fitting



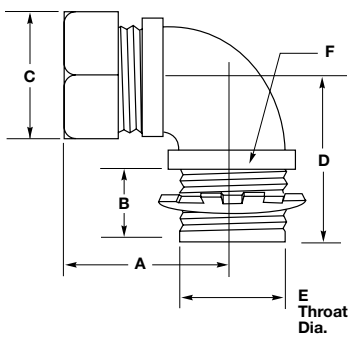
Trade Size (md**)	A Ref.	B	C		D Throat Dia.	E	
			A/C*	A/F*		A/C*	A/F*
3/8 (12)	1.43" (36.3)	.59" (15.0)	1.20" (30.0)	1.06" (26.9)	.61" (15.5)	1.07" (27.2)	.93" (23.6)
1/2 (16)	1.43" (36.3)	.59" (15.0)	1.34" (34.0)	1.19" (30.2)	.61" (15.5)	1.22" (31.0)	1.06" (26.9)
3/4 (21)	1.56" (39.6)	.59" (15.0)	1.55" (39.0)	1.37" (34.8)	.84" (21.3)	1.43" (36.3)	1.25" (31.8)
1 (27)	1.68" (42.7)	.66" (16.8)	1.95" (50.0)	1.69" (42.9)	1.06" (26.9)	1.73" (43.9)	1.56" (39.6)
1 1/4 (35)	2.03" (51.6)	.63" (16.8)	2.39" (61.0)	2.06" (52.3)	1.37" (34.8)	2.36" (59.9)	2.08" (52.8)
1 1/2 (41)	2.21" (56.1)	.63" (16.8)	2.72" (69.0)	2.38" (60.5)	1.53" (38.9)	2.79" (70.9)	2.48" (63.0)
2 (53)	2.28" (57.9)	.69" (17.5)	3.08" (78.0)	2.87" (72.9)	2.06" (52.3)	3.32" (84.3)	2.90" (73.7)
2 1/2 (63)	3.56" (90.4)	1.06" (26.9)	3.92" (100.0)	3.62" (91.9)	2.42" (61.5)	3.85" (97.8)	3.60" (91.4)
3 (78)	3.81" (96.8)	1.06" (26.9)	4.70" (119.0)	4.31" (109.5)	3.01" (76.5)	4.65" (118.1)	4.33" (110.0)
3 1/2 (91)	3.81" (96.8)	1.06" (26.9)	5.29" (134.0)	4.81" (122.2)	3.49" (88.6)	5.18" (131.6)	4.82" (122.4)
4 (103)	3.81" (96.8)	1.06" (26.9)	5.75" (146.0)	5.31" (134.9)	3.96" (100.6)	5.75" (146.1)	5.39" (136.9)

## 45° with Male Metallic Metal Fitting



Trade Size (md**)	A	B	C	D		E Throat Dia.	F	
				A/C*	A/F*		A/C*	A/F*
3/8 (12)	1.19" (30.2)	1.28" (32.5)	.59" (15.0)	1.20" (30.5)	1.06" (26.9)	.60" (15.2)	1.16" (29.5)	1.02" (25.9)
1/2 (16)	1.19" (30.2)	1.28" (32.5)	.59" (15.0)	1.34" (34.0)	1.19" (30.2)	.61" (15.2)	1.21" (30.7)	1.06" (26.9)
3/4 (21)	1.19" (30.2)	1.43" (36.3)	.59" (15.0)	1.55" (39.4)	1.45" (36.8)	.84" (21.3)	1.50" (38.1)	1.32" (33.5)
1 (27)	1.38" (35.1)	1.53" (38.9)	.66" (16.8)	1.95" (49.5)	1.69" (42.9)	1.05" (26.7)	1.82" (46.2)	1.59" (40.4)
1 1/4 (35)	1.42" (36.1)	1.69" (42.9)	.63" (16.0)	2.39" (60.7)	2.06" (52.3)	1.37" (34.8)	2.32" (58.9)	2.03" (51.6)
1 1/2 (41)	1.66" (42.2)	2.00" (50.8)	.66" (16.8)	2.72" (69.1)	2.38" (60.5)	1.60" (40.6)	2.62" (66.5)	2.29" (58.2)
2 (53)	1.69" (42.9)	2.25" (57.2)	.66" (16.8)	3.08" (78.2)	2.88" (73.2)	2.05" (52.1)	3.21" (81.5)	2.80" (71.1)

## 90° with Male Metallic Metal Fitting



Trade Size (md**)	A	B	C		D Ref.	E Throat Dia.	F	
			A/C*	A/F*			A/C*	A/F*
3/8 (12)	1.31" (33.3)	.59" (15.0)	1.20" (30.5)	1.06" (26.9)	1.44" (36.6)	.60" (15.2)	1.13" (29.0)	.99" (25.1)
1/2 (16)	1.31" (33.3)	.59" (15.0)	1.34" (34.0)	1.12" (28.4)	1.44" (36.6)	.61" (15.5)	1.12" (28.0)	1.00" (25.4)
3/4 (21)	1.44" (36.6)	.59" (15.0)	1.55" (39.4)	1.45" (36.8)	1.63" (41.4)	.83" (21.1)	1.48" (38.0)	1.29" (32.8)
1 (27)	1.78" (45.2)	.59" (15.0)	1.95" (49.5)	1.60" (40.6)	2.19" (55.6)	1.05" (26.7)	1.80" (46.0)	1.57" (39.9)
1 1/4 (35)	1.97" (50.0)	.63" (16.0)	2.39" (60.7)	2.06" (52.3)	2.50" (63.5)	1.36" (34.5)	2.32" (59.0)	2.02" (51.3)
1 1/2 (41)	2.19" (55.6)	.63" (16.0)	2.72" (69.1)	2.38" (60.5)	2.69" (68.3)	1.61" (40.9)	2.58" (66.0)	2.25" (57.2)
2" (53)	2.53" (64.3)	.66" (16.8)	3.08" (78.2)	2.87" (72.9)	3.25" (82.6)	2.05" (52.1)	3.14" (80.0)	2.75" (69.9)
2 1/2 (63)	3.44" (87.4)	1.00" (25.4)	3.92" (99.6)	3.63" (92.2)	4.25" (108.0)	2.42" (61.5)	3.78" (96.0)	3.50" (88.9)
3 (78)	3.75" (95.3)	1.00" (25.4)	4.70" (119.4)	4.31" (109.5)	4.87" (123.7)	3.01" (76.5)	4.64" (118.0)	4.30" (109.2)
4 (103)	4.25" (108.0)	1.00" (25.4)	5.75" (146.1)	5.31" (134.9)	5.63" (143.0)	3.96" (100.6)	5.76" (146.0)	5.38" (136.7)

Note: \*A/C = Across Corners, A/F = Across Flats.  
\*\*md = metric designator.

# Section W Network Wiring and netSELECT® Products

## Enterprise Grade Commercial Products

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### Keystone Jacks and Connectors



### HDMI Connectors



### Hubbell iSTATION Surface Mount Boxes



### Modular Snap Fit Jacks





HXJ6B



HXJ6OR

### Hubbell Xcelerator Jacks, Category 6

The NEXTSPEED® Category 6 system is designed to deliver headroom beyond 500MHz for dependable Multi-gigabit Ethernet applications. NEXTSPEED's extended bandwidth provides reliability with zero bit error rate performance for today's high speed digital communications.

Color	Catalog Number	Bag of 25 Catalog Number
Almond	HXJ6AL	HXJ6AL25
Black	HXJ6BK	HXJ6BK25
Blue	HXJ6B	HXJ6B25
Gray	HXJ6GY	HXJ6GY25
Green	HXJ6GN	HXJ6GN25
Ivory	HXJ6EI	HXJ6EI25
Light Almond	HXJ6LA	HXJ6LA25
Office White	HXJ6OW	HXJ6OW25
Orange	HXJ6OR	HXJ6OR25
Red	HXJ6R	HXJ6R25
White	HXJ6W	HXJ6W25
Yellow	HXJ6Y	HXJ6Y25

### Hubbell Xcelerator Jacks, Category 5e

Supports 10/100/1000BASE-T applications with usable bandwidth of 190 MHz in the channel.

Color	Catalog Number	Bag of 25 Catalog Number
Almond	HXJ5EAL	HXJ5EAL25
Black	HXJ5EBK	HXJ5EBK25
Blue	HXJ5EB	HXJ5EB25
Gray	HXJ5EGY	HXJ5EGY25
Green	HXJ5EGN	HXJ5EGN25
Ivory	HXJ5EEI	HXJ5EEI25
Light Almond	HXJ5ELA	HXJ5ELA25
Office White	HXJ5EOW	HXJ5EOW25
Orange	HXJ5EOR	HXJ5EOR25
Red	HXJ5ER	HXJ5ER25
White	HXJ5EW	HXJ5EW25
Yellow	HXJ5EY	HXJ5EY25



HXJ5EBK

### Hubbell Xcelerator Jacks, 6-Position USOC

Color	Catalog Number	Bag of 25 Catalog Number
Almond	HXJUAL	-
Black	HXJUBK	-
Blue	HXJUB	-
Gray	HXJUGY	-
Green	HXJUGN	-
Ivory	HXJUEI	-
Light Almond	HXJULA	-
Office White	HXJUOW	HXJUOW25
Orange	HXJUOR	-
Red	HXJUR	-
White	HXJUW	-
Yellow	HXJUY	-



HXJUEI

### Jack Icons\*

Bag of 100 icons. Snaps to front of enterprise grade Hubbell Xcelerator jacks.



Color	Blank	Computer	Telephone
Black	IBK100	IBK100C	IBK100T
Blue	IB100	IB100C	IB100T
Brown	IBN100	IBN100C	IBN100T
Gray	IGY100	IGY100C	IGY100T
Green	IGN100	IGN100C	IGN100T
Ivory	IEI100	IEI100C	IEI100T
Orange	IOR100	IOR100C	IOR100T
Purple	IP100	IP100C	IP100T
Red	IR100	IR100C	IR100T
White	IW100	IW100C	IW100T
Yellow	IY100	IY100C	IY100T



IP100C

Note: \*Not UL Listed, CSA Certified.

### F-Type Connectors

Distributes high quality video signal to the workstation. These connectors install with a snap and provide quick, easy “screw-on” termination. Compatible with TV, CATV and CCTV, home theater and entertainment systems, satellite, security and surveillance systems, VCR/DVD applications.

Color	F-Type Coupler Bulkhead F/F	F-Type Coupler Bulkhead F/F Gold	F-Type to RCA Bulkhead F/F Gold	F-Type Recessed
Almond	<b>SFFALX</b>	<b>SFFGAL</b>	–	–
Black	<b>SFFBX</b>	<b>SFFGBK</b>	<b>SFRFGBK</b>	<b>SFGRFBK</b>
Gray	<b>SFFGX</b>	<b>SFFGGY</b>	<b>SFRFGGY</b>	<b>SFGRFGY</b>
Ivory	<b>SFFEX</b>	<b>SFFGEI</b>	<b>SFRFGEI</b>	<b>SFGRFEI</b>
Light Almond	<b>SFFLAX</b>	<b>SFFGLA</b>	–	–
Office White	<b>SFFX</b>	<b>SFFGOW</b>	<b>SFRFGOW</b>	<b>SFGRFOW</b>
White	<b>SFFWX</b>	<b>SFFGW</b>	<b>SFRFGW</b>	<b>SFGRFW</b>



**SFFGGY**



**SFGRFOW**



**SFRC110R**



**SFRCR**



**SFRCROW**



**SFRCRFF**



**SFSV110BK**

### RCA Connectors

Distributes component and composite audio and video signals from device to device. Typical applications include TV, cable, VCR/DVD, camera, camcorder, projector, home theater, and entertainment centers.

Insulator Color	RCA 110 Punch-Down Black Housing	RCA Solder Coupler Termination		
		Office White Housing	Additional Housing Color*	RCA Recessed*
Black	–	<b>SFRC</b>	<b>SFRCBKxx</b>	<b>SFRCBKRxx</b>
Blue	<b>SFRC110B</b>	<b>SFRCBOW</b>	<b>SFRCBxx</b>	<b>SFRCBRxx</b>
Green	<b>SFRC110GN</b>	<b>SFRCGNOW</b>	<b>SFRCGNxx</b>	<b>SFRCGNRxx</b>
Orange	–	<b>SFRCOROW</b>	<b>SFRCORxx</b>	<b>SFRCORRxx</b>
Red	<b>SFRC110R</b>	<b>SFRCR</b>	<b>SFRCRxx</b>	<b>SFRCRRxx</b>
White	<b>SFRC110W</b>	<b>SFRCW</b>	<b>SFRCWxx</b>	<b>SFRCWRxx</b>
Yellow	<b>SFRC110Y</b>	<b>SFRCY</b>	<b>SFRCYxx</b>	<b>SFRCYRxx</b>

Insulator Color	RCA Gold Pass-through, Office White Housing	F/F Coupler Additional Housing Color*
Black	<b>SFRCBKFF</b>	<b>SFRCBKFFxx</b>
Blue	<b>SFRCBFFOW</b>	<b>SFRCBFFxx</b>
Green	<b>SFRCGNFFOW</b>	<b>SFRCGNFFxx</b>
Orange	<b>SFRCORFFOW</b>	<b>SFRCORFFxx</b>
Red	<b>SFRCRFF</b>	<b>SFRCRFFxx</b>
White	<b>SFRCWFF</b>	<b>SFRCWFFxx</b>
Yellow	<b>SFRCYFF</b>	<b>SFRCYFFxx</b>

Note: \*Additional Housing colors: **xx** = **AL** (Almond), **BK** (Black), **EI** (Ivory), **GY** (Gray), **LA** (Light Almond), and **W** (White).

### S-Video Connectors

Transmits video information over a cable by dividing the signal into two separate signals (chrominance) for color and (luminance) for brightness. Applications include cable, satellite, DVD, camera, camcorder, projector, home theater, entertainment systems, security, and surveillance.

Color	S-Video 110 Punch-Down	S-Video F/F Coupler
Black	<b>SFSV110BK</b>	<b>SFSVBK</b>



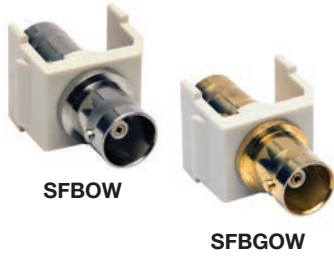
#### Gender Changers, 9 and 15-Pin Connections

Unit of Measure	15-Pin, 90° F/F Coupler	HD 9-Pin F/F Coupler	HD 15-Pin F/F Coupler
1 per bag	<b>15901</b>	–	–
10 per bag	<b>159010</b>	<b>9GC10</b>	<b>15GC10</b>

#### Screw Terminal, 9 and 15-Pin Connections

Unit of Measure	HD 9-Pin Screw Term	HD 15-Pin Screw Term	HD 15-Pin, Screw Term, Keystone Front Mount
10 per bag	<b>9ST10</b>	<b>15ST10</b>	<b>SF15ST</b>





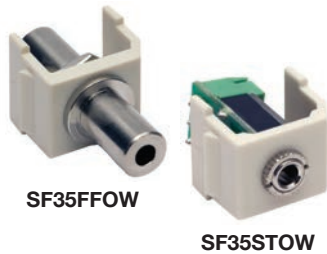
SFBBOW

SFBGOW



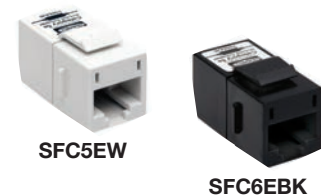
SFSPGR

SPPBK10



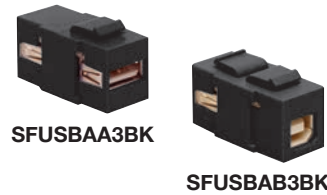
SF35FFOW

SF35STOW



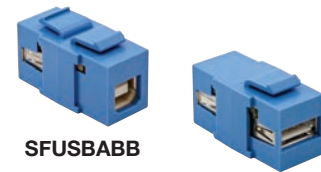
SFC5EW

SFC6EBK



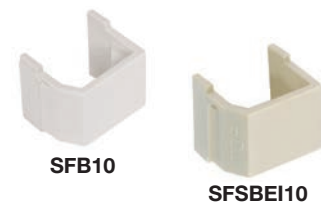
SFUSBAA3BK

SFUSBAB3BK



SFUSBABB

SFUSBAAB



SFB10

SFSBEI10

### BNC Connectors

Distributes PRO audio video through coaxial 75 ohm signal to the work area. Applications include TV, CCTV, analog and digital CATV, VCR, HDTV satellite, security and surveillance systems.

Color	BNC Connector Nickel Finish	BNC Connector Gold Finish
Black	<b>SFBBK</b>	<b>SFBGBK</b>
Gray	<b>SFBGY</b>	<b>SFBGGY</b>
Ivory	<b>SFBEI</b>	<b>SFBGEI</b>
Light Almond	<b>SFBLA</b>	<b>SFBGLA</b>
Office White	<b>SFBOW</b>	<b>SFBGOW</b>
White	<b>SFBW</b>	<b>SFBGW</b>

### Gold Speaker Post Connectors and Plugs\*

Ring Color	Speaker Post Connector Office White Housing	Speaker Post/ Banana Plugs
Black	<b>SFSPGBK</b>	<b>SPPBK10</b>
Red	<b>SFSPGR</b>	<b>SPPR10</b>

### 3.5mm Stereo Jacks\*

Distributes stereo or mono audio signals to and from devices. Applications include laptop and desktop computer audio I/O output, PRO audio distribution, projectors, and IR (infrared) signal transmission.

Housing Color	3.5mm F/F Coupler	3.5mm Stereo Jack	3.5mm Screw Term.
Black	<b>SF35FFBK</b>	<b>SF35SJBK</b>	<b>SF35STBK</b>
Gray	<b>SF35FFGY</b>	<b>SF35SJGY</b>	<b>SF35STGY</b>
Ivory	<b>SF35FFEI</b>	<b>SF35SJEI</b>	<b>SF35STEI</b>
Light Almond	<b>SF35FFLA</b>	<b>SF35SJLA</b>	<b>SF35STLA</b>
Office White	<b>SF35FFOW</b>	<b>SF35SJ</b>	<b>SF35STOW</b>
White	<b>SF35FFW</b>	<b>SF35SJW</b>	<b>SF35STW</b>

### Inline Couplers\*

Use to deliver a quick and easy interconnect solution at the desktop or in the cross connect.

Color	Wiring: T568A/B	Wiring: T568A/B
Black	<b>SFC5EBK</b>	<b>SFC6EBK</b>
White	<b>SFC5EW</b>	<b>SFC6EW</b>

### USB Connectors

Use to provide a simple and easy way to add a USB connection to a work area.

Housing Color	USB 3.0, A to A, Pass-Thru, F/F, Coupler	USB 3.0, A to B, Pass-Thru, F/F, Coupler	USB 2.0, A to A, Pass-Thru, F/F, Coupler	USB 2.0, A to B, Pass-Thru, F/F, Coupler
Black	<b>SFUSBAA3BK</b>	<b>SFUSBAB3BK</b>	-	-
Blue	-	-	<b>SFUSBAAB</b>	<b>SFUSBABB</b>
Office White	-	-	<b>SFUSBAAOW</b>	<b>SFUSBABOW</b>
White	-	-	<b>SFUSBAAW</b>	<b>SFUSBABW</b>

### Blank Connectors, 10-Pack

Housing Color	Blanks	Smooth Blanks
Almond	<b>SFBAL10</b>	<b>SFSBAL10</b>
Black	<b>SFB10</b>	<b>SFSBBK10</b>
Gray	<b>SFBG10</b>	<b>SFSBGY10</b>
Ivory	<b>SFBE10</b>	<b>SFSBEI10</b>
Light Almond	<b>SFBLA10</b>	<b>SFSBLA10</b>
Office White	<b>SFB10</b>	<b>SFSBOW10</b>
White	<b>SFBW10</b>	<b>SFSBW10</b>

Note: \*Not UL Listed.

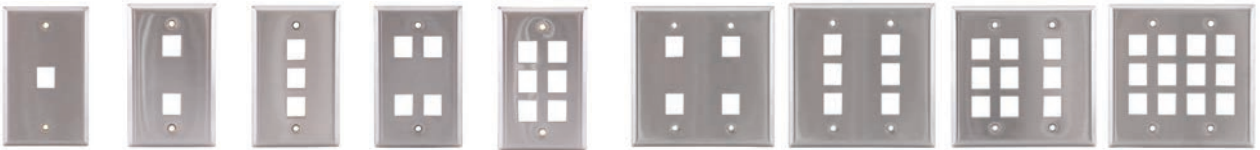
**IFP Face Plates, with Label Fields, 1- and 2-Gang**



Color	1-Gang					2-Gang		
	1-Port	2-Port	3-Port	4-Port	6-Port	6-Port	9-Port	12-Port
Almond	<b>IFP11AL</b>	<b>IFP12AL</b>	<b>IFP13AL</b>	<b>IFP14AL</b>	<b>IFP16AL</b>	<b>IFP26AL</b>	-	-
Black	<b>IFP11BK</b>	<b>IFP12BK</b>	<b>IFP13BK</b>	<b>IFP14BK</b>	<b>IFP16BK</b>	<b>IFP26BK</b>	<b>IFP29BK</b>	<b>IFP212BK</b>
Gray	<b>IFP11GY</b>	<b>IFP12GY</b>	<b>IFP13GY</b>	<b>IFP14GY</b>	<b>IFP16GY</b>	<b>IFP26GY</b>	<b>IFP29GY</b>	<b>IFP212GY</b>
Ivory	<b>IFP11EI</b>	<b>IFP12EI</b>	<b>IFP13EI</b>	<b>IFP14EI</b>	<b>IFP16EI</b>	<b>IFP26EI</b>	<b>IFP29EI</b>	<b>IFP212EI</b>
Light Almond*	<b>IFP11LA</b>	<b>IFP12LA</b>	<b>IFP13LA</b>	<b>IFP14LA</b>	<b>IFP16LA</b>	<b>IFP26LA</b>	<b>IFP29LA</b>	<b>IFP212LA</b>
Office White	<b>IFP11OW</b>	<b>IFP12OW</b>	<b>IFP13OW</b>	<b>IFP14OW</b>	<b>IFP16OW</b>	<b>IFP26OW</b>	<b>IFP29OW</b>	<b>IFP212OW</b>
White	<b>IFP11W</b>	<b>IFP12W</b>	<b>IFP13W</b>	<b>IFP14W</b>	<b>IFP16W</b>	<b>IFP26W</b>	<b>IFP29W</b>	<b>IFP212W</b>

Note: \*Light Almond plates match Office White non-metallic raceway, boxes, jacks and connectors.

**Stainless Steel Face Plates without Label Fields, 1- and 2-Gang**



Catalog No.	1-Gang					2-Gang			
	1-Port	2-Port	3-Port	4-Port	6-Port	4-Port	6-Port	9-Port	12-Port
	<b>SSF11</b>	<b>SSF12</b>	<b>SSF13</b>	<b>SSF14</b>	<b>SSF16</b>	<b>SSF204</b>	<b>SSF206</b>	<b>SSF209</b>	<b>SSF212</b>

**Stainless Steel Face Plates with Label Fields**

1-Gang	Catalog Number
1-Port	<b>SSFL11</b>
2-Port	<b>SSFL12</b>
3-Port	<b>SSFL13</b>
4-Port	<b>SSFL14</b>
6-Port	<b>SSFL16</b>

**Duplex and Decorator Plates with Label Fields**

	Color	Duplex Plate	Decorator Plate
	Almond	<b>IFP18AL</b>	<b>IFP126AL</b>
	Office White	<b>IFP18OW</b>	<b>IFP126OW</b>

**Standard Duplex and Decorator Plates with No Label Fields, 1- and 2-Gang**

	Color	1-Gang Duplex Plate	1-Gang Decorator Plate	2-Gang Decorator Plate
	Almond	<b>NP8AL</b>	<b>NP26AL</b>	<b>NP262AL</b>
	Black	<b>NP8BK</b>	<b>NP26BK</b>	<b>NP262BK</b>
	Ivory	<b>NP8I</b>	<b>NP26I</b>	<b>NP262I</b>
	Gray	<b>NP8GY</b>	<b>NP26GY</b>	<b>NP262GY</b>
	Light Almond*	<b>NP8LA</b>	<b>NP26LA</b>	<b>NP262LA</b>
	White	<b>NP8W</b>	<b>NP26W</b>	<b>NP262W</b>

Note: \*Light Almond plates match Office White non-metallic raceway, boxes, jacks and connectors.

**630 Wall Phone Plates, 1-Gang**

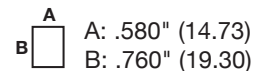
Stainless Steel, 1-Gang wall phone plate.



**P630S1GJ6**    **P630SR1GJ6**

Jack Format	Includes Gray Jack	Catalog Number
Flush	6-position USOC, RJ25	<b>P630S1GJ6</b>
Flush	8-position Cat. 5e, RJ45	<b>P630S1GJ8</b>
Recessed	6-position USOC, RJ25	<b>P630SR1GJ6</b>
Recessed	8-position Cat. 5e, RJ45	<b>P630SR1GJ8</b>

**Keystone Opening**  
 Hole size for mounting  
 all Hubbell Jacks.



### HDMI\*\* Decorator Frames



Color	1-Port	2-Port
Black	<b>NS801BK</b>	<b>NS802BK</b>
Gray	<b>NS801GY</b>	<b>NS802GY</b>
Ivory	<b>NS801I</b>	<b>NS802I</b>
Light Almond	<b>NS801LA</b>	<b>NS802LA</b>
White	<b>NS801W</b>	<b>NS802W</b>

Note: \*\*HDMI (High Definition Media Interface).

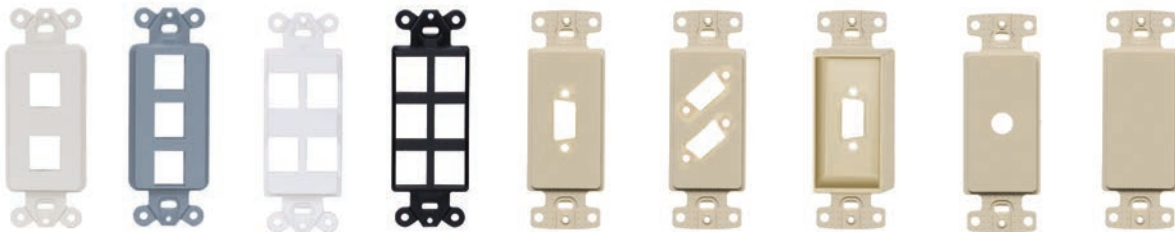
### Blank Duplex Outlet Frames, 1-Gang



Color	Keystone 2-Port	Keystone 4-Port
Almond	<b>BR106AL</b>	<b>Q106AL</b>
Black	<b>BR106B</b>	<b>Q106B</b>
Gray	<b>BR106G</b>	<b>Q106G</b>
Ivory	<b>BR106E</b>	<b>Q106E</b>
Light Almond*	<b>BR106LA</b>	<b>Q106LA</b>
Office White	<b>BR106C</b>	<b>Q106O</b>
White	<b>BR106W</b>	<b>Q106W</b>

Note: \*Light Almond frames match Office White non-metallic raceway, boxes, jacks and connectors.

### Blank Decorator Outlet Frames, 1-Gang



Color	Keystone 2-Port	Keystone 3-Port	Keystone 4-Port	Keystone 6-Port	HD15/9 or HDMI	(2) HD15/9 or HDMI	(1) Recessed HD15/9 or HDMI	.406 in. (10.3) hole	Blank
Almond	<b>ISF2AL</b>	<b>ISF3AL</b>	<b>ISF4AL</b>	<b>ISF6AL</b>	<b>ISFB15AL</b>	—	—	<b>NS621AL</b>	<b>NS620AL</b>
Black	<b>ISF2BK</b>	<b>ISF3BK</b>	<b>ISF4BK</b>	<b>ISF6BK</b>	<b>ISFB15BK</b>	<b>ISFB215BK</b>	<b>ISFBR15BK</b>	—	—
Gray	<b>ISF2GY</b>	<b>ISF3GY</b>	<b>ISF4GY</b>	<b>ISF6GY</b>	<b>ISFB15GY</b>	<b>ISFB215GY</b>	<b>ISFBR15GY</b>	—	—
Ivory	<b>ISF2EI</b>	<b>ISF3EI</b>	<b>ISF4EI</b>	<b>ISF6EI</b>	<b>ISFB15EI</b>	<b>ISFB215EI</b>	<b>ISFBR15EI</b>	<b>NS621I</b>	<b>NS620I</b>
Light Almond*	—	—	—	—	<b>ISFB15LA</b>	—	—	<b>NS621LA</b>	<b>NS620LA</b>
Office White	<b>ISF2OW</b>	<b>ISF3OW</b>	<b>ISF4OW</b>	<b>ISF6OW</b>	<b>ISFB15OW</b>	<b>ISFB215OW</b>	<b>ISFBR15OW</b>	—	—
White	<b>ISF2W</b>	<b>ISF3W</b>	<b>ISF4W</b>	<b>ISF6W</b>	<b>ISFB15W</b>	<b>ISFB215W</b>	<b>ISFBR15W</b>	<b>NS621W</b>	<b>NS620W</b>

Note: \*Light Almond frames match Office White non-metallic raceway, boxes, jacks and connectors.

### Secure-IT Plates



Secure-IT Plates protect mated and unmated connections from physical damage and unauthorized tampering. Available in Tamper-Resistant and Weatherproof versions.



**TPF1W**

#### Tamper-Resistant Plates

Color	1-Gang/4-Port Catalog Number
Black	<b>TPF1BK</b>
Gray	<b>TPF1GY</b>
Office White	<b>TPF1OW</b>
White	<b>TPF1W</b>



**TWPF1GY**

#### NEMA 3R Weatherproof Plates

Color	1-Gang/4-Port Catalog Number
Gray	<b>TWPF1GY</b>

### HDMI Connectors



#### HDMI Feed Thru Coupler

Description	Catalog Number
Single	<b>HDMIC14</b>



#### Keystone HDMI Feed Thru

Description	Color	Catalog Number
Single	Black	<b>SFHC14BK</b>
Single	White	<b>SFHC14W</b>



#### HDMI Feed Thru 3-Inch Tail

Description	Catalog Number
Single	<b>HDMIT14</b>

### DVI Adapters/Couplers



#### DVI-I Coupler

Description	Catalog Number
Single	<b>DVI1</b>



#### DVI to VGA Adapter

Description	Catalog Number
Single	<b>DVI151</b>



#### DVI to HDMI Adapter

Description	Catalog Number
Single	<b>DVIHDMI1</b>



#### DVI to HDMI Adapter

Description	Catalog Number
Single	<b>HDMIC1</b>

### 110 Audio Video Modules\*

Description	Housing Color	Catalog Number
RCA Component, Video to 110 Termination, 1 Unit, 75 ft. max. HD Cat 5, 5e, 6 UTP	Almond	<b>IMCR1101AL</b>
	Black	<b>IMCR1101BK</b>
	Ivory	<b>IMCR1101EI</b>
	Gray	<b>IMCR1101GY</b>
	Office White	<b>IMCR1101OW</b>
	White	<b>IMCR1101W</b>
S-Video, Stereo RCA Audio to 110 Termination, 1 Unit, 100 ft. max. Cat 5, 5e, 6 UTP	Almond	<b>IMSR1101AL</b>
	Black	<b>IMSR1101BK</b>
	Ivory	<b>IMSR1101EI</b>
	Gray	<b>IMSR1101GY</b>
	Office White	<b>IMSR1101OW</b>
	White	<b>IMSR1101W</b>
S-Video, 3.5mm Stereo Jack to 110 Termination, 1 Unit, 100 ft. max. Cat 5, 5e, 6	Almond	<b>IMSV351101AL</b>
	Black	<b>IMSV351101BK</b>
	Ivory	<b>IMSV351101EI</b>
	Gray	<b>IMSV351101GY</b>
	Office White	<b>IMSV351101OW</b>
	White	<b>IMSV351101W</b>
RCA Composite, Video, Stereo Audio to 110 Termination, 1 Unit, 100 ft. max. Cat 5, 5e, 6	Almond	<b>IMR1101AL</b>
	Black	<b>IMR1101BK</b>
	Ivory	<b>IMR1101EI</b>
	Gray	<b>IMR1101GY</b>
	Office White	<b>IMR1101OW</b>
	White	<b>IMR1101W</b>
Stereo RCA, Audio 110 Termination, 1 Unit, 100 ft. max. Cat 5, 5e, 6	Almond	<b>IMAR1101AL</b>
	Black	<b>IMAR1101BK</b>
	Ivory	<b>IMAR1101EI</b>
	Gray	<b>IMAR1101GY</b>
	Office White	<b>IMAR1101OW</b>
	White	<b>IMAR1101W</b>

Note: \*Not UL Listed.



**IMCR1101W**



**IMSR1101W**



**IMSV351101W**



**IMR1101W**



**IMAR1101W**



**IMCRS15OW**



**IMCRS10W**



**IM3RS10W**



**IMRSJ10W**



**IMCRF10W**



**IM3RF10W**



**IMSP10W**



**SPPBK10**

**SPPR10**

### 110 Audio Video Modules

Description	Housing Color	Catalog Number
RCA Component Video,* Audio 110 Termination, 1.5 Unit	Almond	<b>IMCRS15AL</b>
	Black	<b>IMCRS15BK</b>
	Ivory	<b>IMCRS15EI</b>
	Gray	<b>IMCRS15GY</b>
	Office White	<b>IMCRS15OW</b>
	White	<b>IMCRS15W</b>
RCA Component* Video, Solder, 1 Unit	Almond	<b>IMCRS1AL</b>
	Black	<b>IMCRS1BK</b>
	Ivory	<b>IMCRS1EI</b>
	Gray	<b>IMCRS1GY</b>
	Office White	<b>IMCRS1OW</b>
	White	<b>IMCRS1W</b>
RCA Composite, Video Audio, Solder, 1 Unit	Almond	<b>IM3RS1AL</b>
	Black	<b>IM3RS1BK</b>
	Ivory	<b>IM3RS1EI</b>
	Gray	<b>IM3RS1GY</b>
	Office White	<b>IM3RS1OW</b>
	White	<b>IM3RS1W</b>
RCA Composite, Video, 3.5mm Stereo Jack, Solder, 1 Unit	Almond	<b>IMRSJ1AL</b>
	Black	<b>IMRSJ1BK</b>
	Ivory	<b>IMRSJ1EI</b>
	Gray	<b>IMRSJ1GY</b>
	Office White	<b>IMRSJ1OW</b>
	White	<b>IMRSJ1W</b>

### Gold Feed-Through Audio Video RCA Couplers

Description	Housing Color	Catalog Number
RCA Component* Video, Gold, Pass-Through, F/F Coupler, 1 Unit	Almond	<b>IMCRF1AL</b>
	Black	<b>IMCRF1BK</b>
	Ivory	<b>IMCRF1EI</b>
	Gray	<b>IMCRF1GY</b>
	Office White	<b>IMCRF1OW</b>
	White	<b>IMCRF1W</b>
RCA Composite, Video Audio, Gold, Pass-Through, F/F Coupler, 1 Unit	Almond	<b>IM3RF1AL</b>
	Black	<b>IM3RF1BK</b>
	Ivory	<b>IM3RF1EI</b>
	Gray	<b>IM3RF1GY</b>
	Office White	<b>IM3RF1OW</b>
	White	<b>IM3RF1W</b>

### Gold Speaker Posts and Banana Plugs

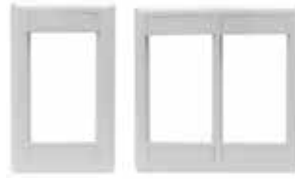
Description	Housing Color	Catalog Number
Speaker Post, Gold, Black and Red, Screw Termination	Almond	<b>IMSP1AL</b>
	Black	<b>IMSP1BK</b>
	Ivory	<b>IMSP1EI</b>
	Gray	<b>IMSP1GY</b>
	Office White	<b>IMSP1OW</b>
	White	<b>IMSP1W</b>
Speaker Banana Plugs*, Gold, Screw Termination, 10-Packs	Black	<b>SPPBK10</b>
	Red	<b>SPPR10</b>

Note: \*Not UL Listed.



### Modular Face Plate Frames

Color	1-Gang	2-Gang
Almond	<b>IMF1AL</b>	<b>IMF2AL</b>
Black	<b>IMF1BK</b>	<b>IMF2BK</b>
Gray	<b>IMF1GY</b>	<b>IMF2GY</b>
Ivory	<b>IMF1EI</b>	<b>IMF2EI</b>
Office White	<b>IMF1OW</b>	<b>IMF2OW</b>
White	<b>IMF1W</b>	<b>IMF2W</b>



### Raceway Bezel Frames\*

Color	1-Gang
Almond	<b>KPIMBZAL</b>
Gray	<b>KPIMBZGY</b>
Office White	<b>KPIMBZOW</b>



### Unloaded Keystone Modules

Color	1-Port, Flat 1 Unit	2-Port, Flat 1 Unit	1-Port, Angled 1.5 Unit	2-Port, Angled 1.5 Unit	Recessed Angle 1-Port, 1.5 Unit	Recessed Angle 2-Port, 1.5 Unit
Almond	<b>IM1K1AL</b>	<b>IM2K1AL</b>	<b>IM1KA15AL</b>	<b>IM2KA15AL</b>	-	-
Black	<b>IM1K1BK</b>	<b>IM2K1BK</b>	<b>IM1KA15BK</b>	<b>IM2KA15BK</b>	<b>IM1IA15BK</b>	<b>IM2IA15BK</b>
Ivory	<b>IM1K1EI</b>	<b>IM2K1EI</b>	<b>IM1KA15EI</b>	<b>IM2KA15EI</b>	<b>IM1IA15EI</b>	<b>IM2IA15EI</b>
Gray	<b>IM1K1GY</b>	<b>IM2K1GY</b>	<b>IM1KA15GY</b>	<b>IM2KA15GY</b>	<b>IM1IA15GY</b>	<b>IM2IA15GY</b>
Office White	<b>IM1K1OW</b>	<b>IM2K1OW</b>	<b>IM1KA15OW</b>	<b>IM2KA15OW</b>	<b>IM1IA15OW</b>	<b>IM2IA15OW</b>
White	<b>IM1K1W</b>	<b>IM2K1W</b>	<b>IM1KA15W</b>	<b>IM2KA15W</b>	<b>IM1IA15W</b>	<b>IM2IA15W</b>

Color	Blank 0.5 Unit	Blank 1 Unit	Blank 1.5 Unit	SC Angled 1-Port, 1.5 Unit	SC Angled 2-Port, 1.5 Unit
Almond	<b>IMB05AL</b>	<b>IMB1AL</b>	<b>IMB15AL</b>	-	-
Black	<b>IMB05BK</b>	<b>IMB1BK</b>	<b>IMB15BK</b>	<b>IM1SCA15BK</b>	<b>IM2SCA2BK</b>
Ivory	<b>IMB05EI</b>	<b>IMB1EI</b>	<b>IMB15EI</b>	<b>IM1SCA15EI</b>	<b>IM2SCA2EI</b>
Gray	<b>IMB05GY</b>	<b>IMB1GY</b>	<b>IMB15GY</b>	<b>IM1SCA15GY</b>	<b>IM2SCA2GY</b>
Office White	<b>IMB05OW</b>	<b>IMB1OW</b>	<b>IMB15OW</b>	<b>IM1SCA15OW</b>	<b>IM2SCA2OW</b>
White	<b>IMB05W</b>	<b>IMB1W</b>	<b>IMB15W</b>	<b>IM1SCA15W</b>	<b>IM2SCA2W</b>

### HD (High Definition) 15-Pin/9-Pin Modules

	Blank HD15/9 or HDMI Module, 1 Unit		Blank HD15/9 or HDMI Module, 1.5 Unit
10-Pack	<b>IMBDS1xx</b>	1-Pack	<b>IMBDSA15xx</b>

### DVI Modules

	DVI Blank, Unloaded, 1.5 Unit
1-Pack	<b>IMBDVI15xx</b>
10-Pack	<b>IMBDVI1015xx</b>

Note: xx = Color: **AL** (Almond), **BK** (Black), **EI** (Ivory), **GY** (Gray), **LA** (Light Almond), **OW** (Office White), and **W** (White).

### Hubbell iSTATION Audio/Video Modules

XLR, speakON® and ¼ inch modules applications include video distribution, desktop and laptop computers, monitors, cameras, microphones and projectors, home theater and entertainment. Note: Order IMAVB15 series blank modules with AV connectors for Hubbell iSTATION applications.

	AV Blank 1.5 Unit		XLR Screw Terminal		XLR Solder-Type		speakON® Conn. Solder-Type		USB Feed-Thru A-to-B		¼" Stereo Jack Solder-Type
10-Pack	<b>IMAVB15xx*</b>	<b>XLRST10</b>	<b>XLR10</b>	<b>SC10</b>	<b>USB10</b>	<b>14S10</b>					

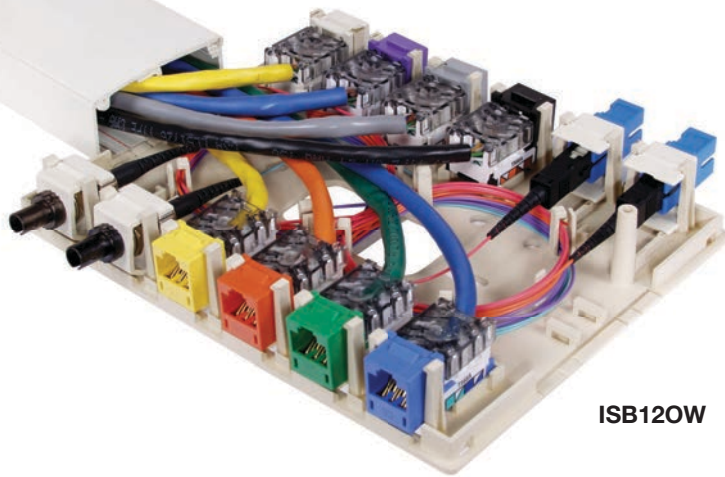
Note: xx = Color: **AL** (Almond), **BK** (Black), **EI** (Ivory), **GY** (Gray), **LA** (Light Almond), **OW** (Office White), and **W** (White).

\*Not UL Listed.

speakON® is a registered trademark of Neutrik® AG.

### Specifications

- Low-profile design.
- Accepts XJ jacks, audio video and fiber connectors.
- Provided with double-sided tape and mounting screws for easy installation.
- UL and cUL listed.
- Constructed with a high-impact resistant, flame-retardant polymer.
- ANSI/TIA-606B compliant.



**ISB120W**



**ISB10W**



**ISB20W**



**ISB40W**



**ISB60W**



**ISB120W**

### ISB Surface Mount Boxes, 1- and 2-Port

Ideal for open office, compact surface mount environments, and retrofits to support data, voice, and multimedia applications. Can be mounted with supplied surface mounting screws or double-sided adhesive tape.

Color	1-Port Catalog Number	2-Port Catalog Number
Ivory	<b>ISB1EI</b>	<b>ISB2EI</b>
Office White	<b>ISB10W</b>	<b>ISB20W</b>
White	<b>ISB1W</b>	<b>ISB2W</b>

### ISB Surface Mount Boxes, 4- and 6-Port

Ideal for open office MUTOA cabling, compact surface mount environments, and retrofits to support data, voice, and multimedia applications. Features adjustable furniture latches to provide an additional mounting option to common ANSI/TIA/EIA standard furniture openings, and solutions requiring fiber. Box bases feature fiber storage posts that can store one meter fiber cable after termination.

Color	4-Port Catalog Number	6-Port Catalog Number
Ivory	<b>ISB4EI</b>	<b>ISB6EI</b>
Office White	<b>ISB40W</b>	<b>ISB60W</b>
White	<b>ISB4W</b>	<b>ISB6W</b>

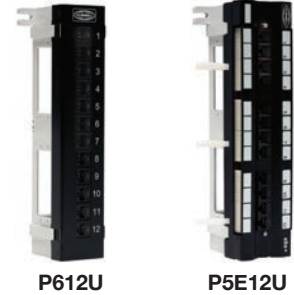
### ISB Surface Mount Boxes, 12-Port

Ideal for open office MUTOA cabling, large capacity surface mount applications and retrofits to support data, voice, and multimedia installations. Can be mounted with supplied surface mounting screws or double-sided adhesive tape and mounted to NEMA electric boxes or relay racks.

Color	12-Port Catalog Number
Ivory	<b>ISB12EI</b>
Office White	<b>ISB120W</b>
White	<b>ISB12W</b>

### Consolidation Point Block, Category 6 and Category 5e

Description	Catalog Number
Category 6, 12-Port, Universal, 89D	<b>P612U</b>
Category 5e, 12-Port, Universal, 89D	<b>P5E12U</b>



### Universal Patch Panel, Category 5e

Description	Catalog Number
24-Port, 1.75" H	<b>P5E24UE</b>
48-Port, 3.50" H	<b>P5E48UE</b>
96-Port, 7.0" H	<b>P5E96UE</b>



**P5E24UE**

### Universal Patch Panel, Category 6

Description	Catalog Number
24-Port, 1.75" H	<b>P6E24U</b>
48-Port, 3.50" H	<b>P6E48U</b>
96-Port, 7.0" H	<b>P6E96U</b>



**P6E48U**

### Keystone Jack Panel, Unloaded\*

Description	Catalog Number
Wall Mount, 12-Port, Black	<b>UDX1289</b>
Rack Mount, 24-Port, 1.75" H, Black	<b>UDX24E</b>
Rack Mount, 48-Port, 3.5" H, Black	<b>UDX48E</b>

Note: \*Not UL Listed.



**UDX24E**

### Rear Cable Management Bar\*

Description	Catalog Number
Screws to the rear flange of a 19-inch rack	<b>CMBR</b>

Note: \*Not UL Listed.



**CMBR**

## Horizontal UTP Cable and Patch Cords

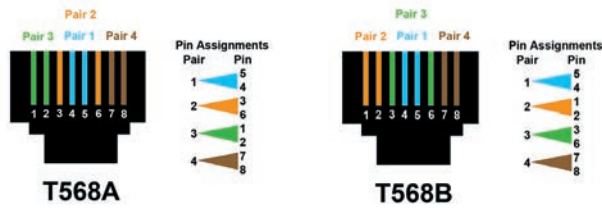
- Solid copper 4-pair 24 or better AWG UTP is specified for distribution cabling. Stranded UTP is specified for patch cords for flexibility. Shielded cable is not commonly used in the U.S. splices and bridge taps are not permitted.
- Cable, connectors and patch cords shall be marked with the performance category. Always match performance categories of cables and components throughout the infrastructure.
- All cable, cords and connecting hardware shall meet performance requirements of ANSI/TIA/EIA-568-C.1 and 568-C.2. Hubbell assures this compliance with all products and cable partners.

### COLOR CODING:



## Recognized Connector and Wiring Configurations

- 8-position modular jack/plug.
- 8-position modular panel/plug.
- T568A wiring or T568B wiring options.
- Cat. 5e or Cat. 6 recommended.



## RJ45 - TIA-568 Conventions

Two wiring standards were adopted. Both configurations provide equivalent transmission performance.



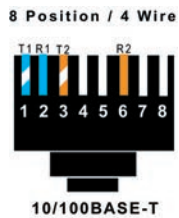
- Preferred method
- Directly compatible with 2-pair voice and Token Ring systems utilizing 6-position connectors



- Optional method
- AT&T's standard
- Directly compatible with AT&T phone systems

## LAN Wiring Conventions

Local Area Network standards designed to operate over UTP specify pin/pair assignments on modular connectors for various signal transmission protocols. While TIA/EIA-568A and 568B conventions support all of these designations, there are some cases where the user chooses to cable only the number of pairs required to support these applications.



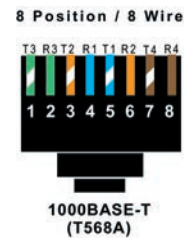
- 10 Mbps Ethernet over UTP
- 100 Mbps Ethernet



- 4/16 Mbps Token Ring over copper



- 100 Mbps FDDI over copper (pending)



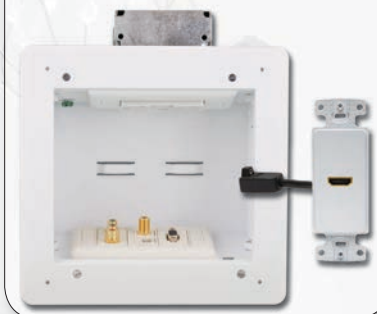
- 1000 Mbps/10Gb Ethernet over UTP
- Uses all four pairs

# Section W netSELECT® Products

## Index

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### In-Wall AV Delivery and HDMI Products



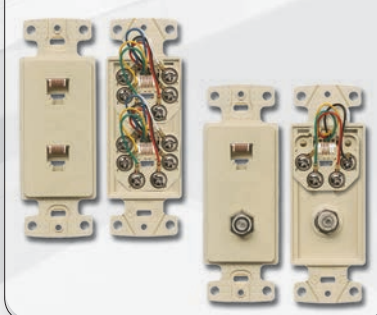
### Universal Blocks, Patch Panels and Cords



### Modular Snap Fit Jacks



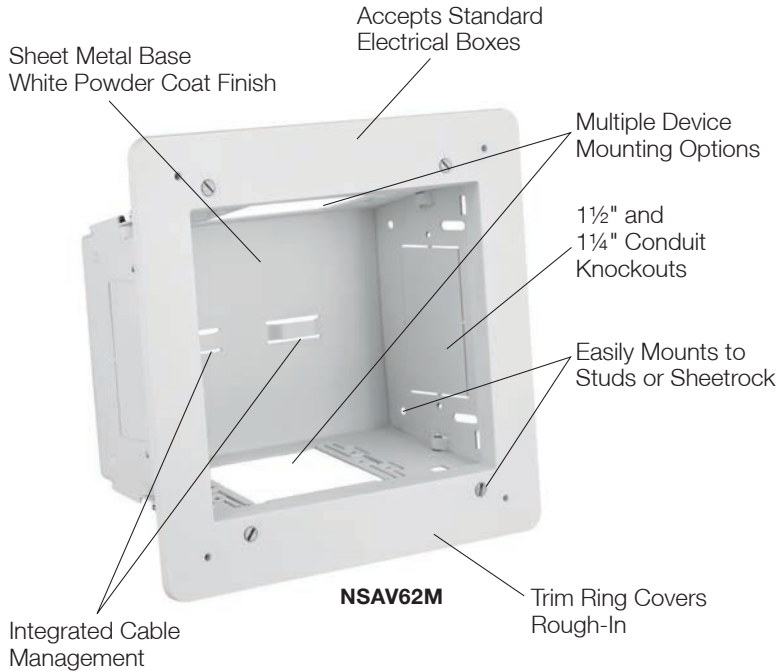
### Molded-In Voice/Data/Video





Hubbell's netSELECT® Flat Panel Television (FPTV) connection enclosure delivers high-density connectivity and power in the wall. This allows flat panel displays and interactive "smart" boards to sit flush against walls with no dangling cords. It quickly installs to studs or sheetrock without additional components or hardware.

- 18 Gauge white powder coated rugged steel base
- 2-Gang enclosure with two 1½ and 1¼ inch KOs
- Stud or sheetrock mounting integrated
- Supplied ABS trim ring quickly cleans up sheetrock rough-in
- Optional screw on cover reduces tampering
- cULus 1863 Listed



### FPTV Connection Enclosure

Description	Color	Catalog Number
2-Gang In-Wall Enclosure	White	<b>NSAV62M</b>
Steel Cover with Cable Exit	White	<b>NSAV6C</b>
Blank Steel Cover	White	<b>NSAV6CB</b>
Block Wall Adaptor	White	<b>NSAV6BW</b>
New Work Stud Bracket	White	<b>NSAV6NW</b>

### Accessories

#### Power Kits

Description	Color	Catalog Number
Standard Power Kit	White	<b>NSOKPTR</b>
Surge Protected Power Kit	Blue	<b>NSOKPS</b>

#### Unloaded Plates and Frames

1-Gang Blank Plate	White	<b>NP14W</b>
1-Gang Decorator Plate	White	<b>NP26W</b>
1-Gang Hubbell iSTATION Plate	White	<b>IMF1W</b>
1-Gang 4-Port Keystone Plate	White	<b>NSP14W</b>

#### AV Connectors and Plates

1-Port HDMI Frame	White	<b>NS801W</b>
2-Port HDMI Frame	White	<b>NS802W</b>
HDMI Snap Fit	White	<b>SFHC14W</b>
F-Connector Snap Fit	White	<b>NSF70W</b>
USB A-to-B Snap Fit	White	<b>SFUSBABW</b>
Cat 6 Snap Fit Jack	White	<b>NSJ6W</b>

Note: See page W-22 for snap fit multimedia jacks and AV connectors.

The AV Ceiling Enclosure is designed to work with active AV devices to integrate AV distribution, data connections and power in one location, providing a direct connection to a projector or a display device. An additional AV/data kit can be added or customized to address all connector, mounting and patching needs, reducing multiple pieces on site.

- Manage multiple applications inside one enclosure
- Flush mounted, white enclosure for consistent look when mounted in the ceiling
- Loaded with two Hubbell 20A duplex receptacles and a 2-gang back box
- All steel rugged construction provides the ultimate strength for installation



**AVCE1H**

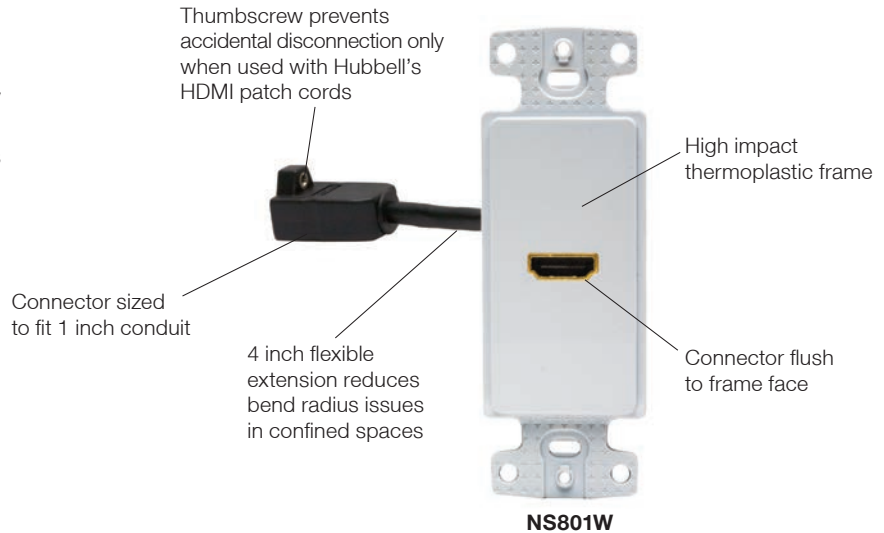
**AV Ceiling Enclosure**

Description	Height Inches (mm)	Width Inches (mm)	Depth Inches (mm)	Color	Catalog Number
AV Ceiling Enclosure	12" (305)	24" (610)	8" (203)	White	<b>AVCE1H</b>

Note: Enclosure includes two 20 amp duplex receptacles and 2-gang back box.

netSELECT® HDMI Decorator Frames deliver uncompromising digital audio and video wherever you need it. Unleash the full potential of your high definition display and audio installations.

- Third party tested for 1080p resolutions
- UL Listed - Communications Circuit Accessory and CSA Certified



**NS801W**

**HDMI Products**

Description	Color	1-Gang, 1-Port	1-Gang, 2-Port
HDMI, Decorator Frame, Female to Female	Black	<b>NS801BK</b>	<b>NS802BK</b>
	Gray	<b>NS801GY</b>	<b>NS802GY</b>
	Ivory	<b>NS801I</b>	<b>NS802I</b>
	Light Almond	<b>NS801LA</b>	<b>NS802LA</b>
	Office White	<b>NS801OW</b>	<b>NS802OW</b>
	White	<b>NS801W</b>	<b>NS802W</b>



**NS801W**

**NS802W**

**HDMI Patch Cords, 24 AWG**



Length	HDMI Device Patch Cords	Length	Horizontal Cords (Connector to Connector)	Length	Link Cords (Connector to Device)	Length	Coupler Cords (Coupler to Device)
3 ft.	<b>HDPC03BK</b>	10 to 30 ft.	<b>HDHyyBK</b>	10 to 30 ft.	<b>HDLyyBK</b>	10 to 30 ft.	<b>HDCyyBK</b>
6 ft.	<b>HDPC06BK</b>						

Note: yy = Length in feet. 10 (10'), 15 (15'), 20 (20'), 25 (25'), 30 (30'). Black and non-plenum only. Black and Non-Plenum only.

# Advantages and Wiring Layout

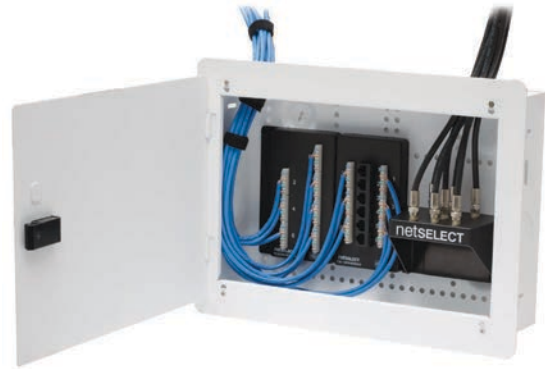
Structured Wiring

## Connect Your Home to Internet, Voice and Video Services

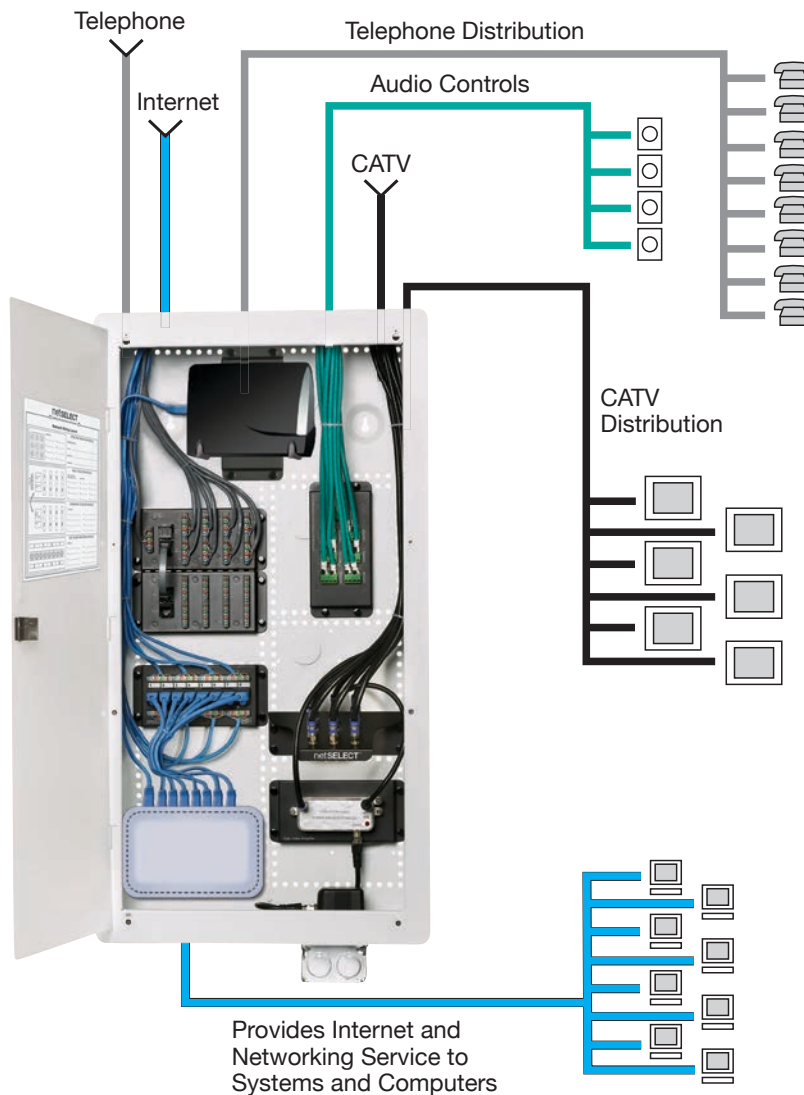
netSELECT® is an innovative network solution that's perfect for any home or small office. Specifically positioned as the voice/data segment for the Residential brand, the netSELECT® System satisfies the need for a dependable, flexible system that can accommodate all of today's fast-changing voice, data and video requirements.

This cost-effective solution incorporates all the quality you'd expect from Hubbell. Built-in flexibility makes it easy to upgrade and keep pace with evolving technologies.

- Share single analog, cable or DSL internet connection
- Local file access
- Shared peripherals
- Multiple telephone distribution
- Call handling (PBX)
- Video distribution
- Play games that allow multi-users
- Control home automation systems



## Today's Communications Entail A Lot More Than Just Talking. netSELECT® Keeps You Connected—Internet, Voice, Data and Entertainment



- Flush or surface mount enclosure (hardware provided)
- Hinged cover can be mounted to swing from either side
- Integral trim ring hides rough-in hole in sheet rock providing a finished appearance (except NSOBOX48)
- Horizontal and vertical module mounting holes for maximum flexibility
- Unique 89D bracket mounting holes allow easy mounting of 66 blocks and peripherals
- Provisions to mount optional duplex power and lock kit available
- Integral cable management slots and tie-wraps provided to help dress cable runs
- Additional nylon push pins provided to assist module mounting
- Material: 20-18 gauge steel
- Finish: white, powder coat
- UL and cULus Listed 1863

## Network Enclosures

### Pre-Configured Network System

Description	No. of Module Placement	Catalog Number
Pre-Configured Network System	–	<b>NSOBNK14</b>
Basic home network kit includes:		
One box with hinged cover NSOBOX14,		
One primary 8-port telephone module NSOPTM8,		
One four way coaxial splitter module NSOVM4		



**NSOBOX10**

### 10 Inch Network Enclosure for MDU and Modular Applications

Description	Height Inches (mm)	Width Inches (mm)	Depth Inches (mm)	No. of Module Placement	Catalog Number
With Hinged Cover	11.55" (293)	15.65" (398)	4.08" (104)	3	<b>NSOBOX10</b>
With Panel Cover	11.07" (281)	–	4.08" (104)	3	<b>NSOBOX10BC</b>
10"H Box only	10.07" (256)	14.38" (365)	3.96" (101)	3	<b>NSOBOX10B</b>
Hinged Door	11.55" (293)	15.65" (398)	0.58" (15)	–	<b>NSOBOX10D</b>
Panel Cover	11.07" (281)	15.50" (594)	0.20" (5)	–	<b>NSOBOX10C</b>



**NSOBOX14**

### 14 Inch Network Enclosure

With Hinged Cover	15.55" (395)	15.65" (398)	4.08" (104)	5	<b>NSOBOX14</b>
With Panel Cover	15.10" (384)	15.54" (395)	4.08" (104)	5	<b>NSOBOX14BC</b>
14"H Box only	14.00" (356)	14.38" (365)	3.96" (101)	5	<b>NSOBOX14B</b>
Hinged Door	15.55" (395)	15.65" (398)	0.33" (8)	–	<b>NSOBOX14D</b>
Vented Door (Louver)	15.55" (395)	15.65" (398)	0.52" (15)	–	<b>NSOBOX14DL</b>
Panel Cover	15.11" (384)	15.54" (395)	0.20" (5)	–	<b>NSOBOX14C</b>
2"D Extension Bracket with ventilation and WiFi KOs	15.30" (389)	15.57" (395)	2.00" (51)	–	<b>NSOBOX14X2</b>

### 28 Inch Network Enclosure

With Hinged Cover	29.55" (751)	–	–	11	<b>NSOBOX28</b>
With Panel Cover	29.13" (740)	15.54" (395)	4.08" (104)	11	<b>NSOBOX28BC</b>
28"H Box only	28.00" (711)	14.38" (365)	3.96" (101)	11	<b>NSOBOX28B</b>
Hinged Door	29.55" (751)	15.65" (398)	0.33" (8)	–	<b>NSOBOX28D</b>
Vented Door* (Louver)	29.55" (751)	15.65" (398)	0.52" (15)	–	<b>NSOBOX28DL</b>
Panel Cover	29.29" (744)	15.54" (395)	0.20" (5)	–	<b>NSOBOX28C</b>
2"D Extension Bracket with ventilation and WiFi KOs	29.3" (744)	15.57" (395)	2.00" (51)	–	<b>NSOBOX28X2</b>



**NSOBOX28**

### 48 Inch Network Enclosure

With Hinged Cover	48.94" (1243)	14.94" (379)	4.07" (103)	21	<b>NSOBOX48*</b>
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Note: \*Door covers rough-in, no trim ring provided.

netSELECT® Modular Components enable the designer to select performance requirements specifically for the application. Modules snap horizontally or vertically into the enclosures for maximum flexibility and optimum space usage.

- Dimensions: 6.47 in. W x 2.95 in. H, except NSOMTM24 6.47 in. W x 6.00 in. H
- Meets FCC Part 68 standard
- Material: High impact plastic
- UL and cULus Listed 1863
- All data and phone modules 568A wired

## Network Modules

Description	Units	Catalog Number
<p>Combo Module</p> <p>Complete Home Network Combo Module 6-Port Telephone Panel and 6-Port Coaxial Splitter with Optional 6-Port Cat. 5e Panel Provides voice, video, and data distribution in a space efficient package. Perfect for use with NSOBOX10 and NS790xx plates to quickly establish a comprehensive home network.</p>		
<p>6-Port Telephone and Video</p> <p>6-Port Telephone, Video and Category 5e</p> <p>6-Port Category 5e Data Upgrade Kit</p>	3	<b>NSOTVM6</b>
	3	<b>NSOTVDM6</b>
	3	<b>NSODK6</b>
<p>Primary Telephone Module, 8-Port</p> <p>Supports 8 phone outlets with up to 4 incoming lines for voice, fax or modem applications in a protected PCB module. Pre-mounted push pins snap the module quickly into place. RJ31X interface jack included for security system connection. RJ45 jack interfaces with optional NSOETM8 Telephone Expansion module for additional extensions.</p>	1	<b>NSOPTM8</b>
<p>Expansion Telephone Module, 8-Port</p> <p>Adds an additional 8 phone outlets with up to 4 incoming lines when used with the primary telephone module. Pre-mounted push pins snap the module quickly into place. Includes RJ45 jumper cord to connect with NSOPTM8 Primary Telephone module.</p>	1	<b>NSOETM8</b>
<p>Category 5e Data Module, 8-Port</p> <p>Supports Gigabit Ethernet for up to 8 Category 5e data lines with front 110 Punch-Down terminations in a protected PCB module. Pre-mounted push pins snap the module quickly into place.</p>	1	<b>NSODM8</b>
<p>Category 6 Data Module, 8-Port</p> <p>Supports enhanced transmission speeds beyond gigabit ethernet. Future proof for tomorrows applications.</p>	1	<b>NSODM8C6</b>
<p>Multiport Patchable Telecom Module</p> <p>Terminates lines via modular plug to accommodate flexibility, by changing plug locations. Reconfigure where phone lines go at the panel level. Allows data lines to be converted to voice, with the move of a patch cord. Includes nine RJ45 jumper cords.</p>	2	<b>NSOMTM24</b>
<p>Combination Module</p> <p>6-Port Telephone and 1-Port Data</p> <p>Provides basic telephone and data delivery in a small package. Allows data lines to be converted to voice, with the move of a patch cord.</p>	1	<b>NSO6P1DM</b>



**NSOTVDM6**



**NSOPTM8**



**NSOETM8**



**NSODM8**



**NSOMTM24**



**NSO6P1DM**



netSELECT® Video Modules support bidirectional signal by splitting to 4, 6, or 8 separate work areas. Pre-mounted push pins snap the module quickly into place.

- Dimensions for VAMP, AM8 and BM: 6.47 in. W x 2.95 in. H
- Dimensions for video splitters: 6.47 in. W x 2.09 in. H x 3.20 in. D
- Material: High impact plastic
- UL and cULus Listed 1863

### Audio/Video Modules

Description	Units	Catalog Number
4-Way Coaxial Splitter Modules, One Incoming Line, Four Outgoing 1 Ghz, Basic Unit 2.3 Ghz, Enhanced Capability	1 1	<b>NSOVM4</b> <b>NSOVM42G</b>
6-Way Coaxial Splitter Modules, One Incoming Line, Six Outgoing 1 Ghz, Basic Unit 2.3 Ghz, Enhanced Capability	1 1	<b>NSOVM6</b> <b>NSOVM62G</b>
8-Way Coaxial Splitter Modules, One Incoming Line, Eight Outgoing 1 Ghz, Basic Unit 2.3 Ghz, Enhanced Capability	1 1	<b>NSOVM8</b> <b>NSOVM82G</b>
Fixed Video Amplifier Module, 10dB 120 volt rated	1	<b>NSOVAMP</b>
Provides video signal amplification for incoming cable feeds recommended for use when more than four outputs are installed or when signal level is low. Provides 10dB forward path gain and supports current digital cable systems and modems with a passive return. Pre-mounted push pins snap the module quickly into place. Includes RG-59 cable jumper to connect amplifier to passive video splitter.		
8 Room Audio Module, Distributes audio from an amplifier to matching volume controllers. Supports up to eight rooms of audio. Power handling - 200W RMS@20° C. Requires impedance matching volume controls, see page W-21.	1	<b>NSOAM8</b>
Blank Module Plate Allows mounting of active components (i.e. switches, routers) or other devices (66 blocks, audio components) onto a modular platform. Can be custom drilled or used with two self-adhesive VELCRO® strips included to mount components onto module. Pre-mounted push pins snap the module quickly into place.	1	<b>NSOBM</b>



**NSOVM4**



**NSOVM6**



**NSOVM8**



**NSOVAMP**



**NSOAM8**



**NSOBM**

VELCRO® is a registered trademark of Velcro Industries B.V.

netSELECT® Patch Panels are excellent for designing rack systems for telephone, data and AV systems. Consolidation Blocks are ideal for small user count configurations that mount in or on the wall.

- Meets ANSI/TIA - Category 6 and Category 5e standards
- cULus Listed

**Universal Consolidation Blocks and Patch Panels**

Description	Catalog Number
Category 5e 12-Port Universal Consolidation Block, 89D Bracket Mount	<b>NS5E12U</b>
Category 6 12-Port Universal Consolidation Block, 89D Bracket Mount	<b>NS612U</b>
Category 5e Universal Patch Panel 24-port, 1.75 inch H, 1 Rack Unit 48-port, 3.50 inch H, 2 Rack Units	<b>NS5E24U</b> <b>NS5E48U</b>
Category 6 Universal Patch Panel 24-port, 1.75 inch H, 1 Rack Unit 48-port, 3.50 inch H, 2 Rack Units	<b>NS624U</b> <b>NS648U</b>



**NS5E12U**



**NS612U**



**NS5E24U**



**NS5E48U**



**NS624U**



**NS648U**

netSELECT® Patch Cords allow for quick change of voice/data lines with insertion of modular plugs.

- Meets and exceeds ANSI/TIA - Category 6 and Category 5e standards
- UL and cUL Listed

**Universal Patch Cords, Category 6 and Category 5e**

Description	Color	1-Foot	3-Foot	5-Foot	7-Foot	10-Foot	15-Foot	20-Foot	25-Foot
Cat. 5e Patch Cord	Blue	<b>HC5EB01</b>	<b>HC5EB03</b>	<b>HC5EB05</b>	<b>HC5EB07</b>	<b>HC5EB10</b>	<b>HC5EB15</b>	<b>HC5EB20</b>	<b>HC5EB25</b>
	Gray	<b>HC5EGY01</b>	<b>HC5EGY03</b>	<b>HC5EGY05</b>	<b>HC5EGY07</b>	<b>HC5EGY10</b>	<b>HC5EGY15</b>	<b>HC5EGY20</b>	<b>HC5EGY25</b>
	Yellow	<b>HC5EY01</b>	<b>HC5EY03</b>	<b>HC5EY05</b>	<b>HC5EY07</b>	<b>HC5EY10</b>	<b>HC5EY15</b>	<b>HC5EY20</b>	<b>HC5EY25</b>
	Red	<b>HC5ER01</b>	<b>HC5ER03</b>	<b>HC5ER05</b>	<b>HC5ER07</b>	<b>HC5ER10</b>	<b>HC5ER15</b>	<b>HC5ER20</b>	<b>HC5ER25</b>
Cat. 6 Patch Cord	Blue	<b>HC6B01</b>	<b>HC6B03</b>	<b>HC6B05</b>	<b>HC6B07</b>	<b>HC6B10</b>	<b>HC6B15</b>	<b>HC6B20</b>	<b>HC6B25</b>
	Gray	<b>HC6GY01</b>	<b>HC6GY03</b>	<b>HC6GY05</b>	<b>HC6GY07</b>	<b>HC6GY10</b>	<b>HC6GY15</b>	<b>HC6GY20</b>	<b>HC6GY25</b>
	Yellow	<b>HC6Y01</b>	<b>HC6Y03</b>	<b>HC6Y05</b>	<b>HC6Y07</b>	<b>HC6Y10</b>	<b>HC6Y15</b>	<b>HC6Y20</b>	<b>HC6Y25</b>
	Red	<b>HC6R01</b>	<b>HC6R03</b>	<b>HC6R05</b>	<b>HC6R07</b>	<b>HC6R10</b>	<b>HC6R15</b>	<b>HC6R20</b>	<b>HC6R25</b>

netSELECT® Accessories enhance system capabilities. Volume controls expand home audio applications. Cabinet mounted receptacle kits provide convenience power to the enclosure.

- Audio controls available in slide or rotary
- Receptacles available in surge and standard kits

**Accessories**

Description	Color	Catalog Number
Slide Audio Volume Controller, Decorator Styling, Power handling - 70W RMS@20° C. Impedance matching for up to 8 pairs of speakers. Includes both ivory and white slides and frames.	Ivory/White	<b>NSOSAVC</b>
Rotary Audio Volume Controller Power handling - 70W RMS@20° C. Impedance matching for up to 8 pairs of speakers. Includes both ivory and white knobs and frames.	Ivory/White	<b>NSORAVC</b>
Standard Power Kit, Includes tamper-resistant duplex receptacle 15A 125V NEMA 5-15R, electrical steel box and wallplate.		<b>NSOKPTR</b>
Surge Suppression Power Kit, Includes surge receptacle 15A 125V NEMA 5-15R, 240 Joules/15,000A protection per mode, electrical steel box and wallplate.		<b>NSOKPS</b>
Chromed Steel Lock Kit, Includes two keys. Eliminates unwanted tampering.		<b>FLOCK1</b>
Panel Bracket Adapter, For use with Adapter Panels shown below, and FSP series modules. Snap mounts into structured cabling enclosures.		<b>NSOFSB</b>
F-Connector Adapter Panel, with Six Populated Coaxial Connectors.		<b>FSPFP6X</b>
Keystone Adapter Panel, with Six Blank Openings for jacks and snap fits.		<b>FSPHD6X</b>
WiFi Antenna Kit, Use with X2 extensions to assure maximum WiFi coverage.		<b>NSOKA</b>



**NSOSAVC**



**NSORAVC**



**NSOKPS**



**FLOCK1**



**NSOFSB**



**FSPFP6X**

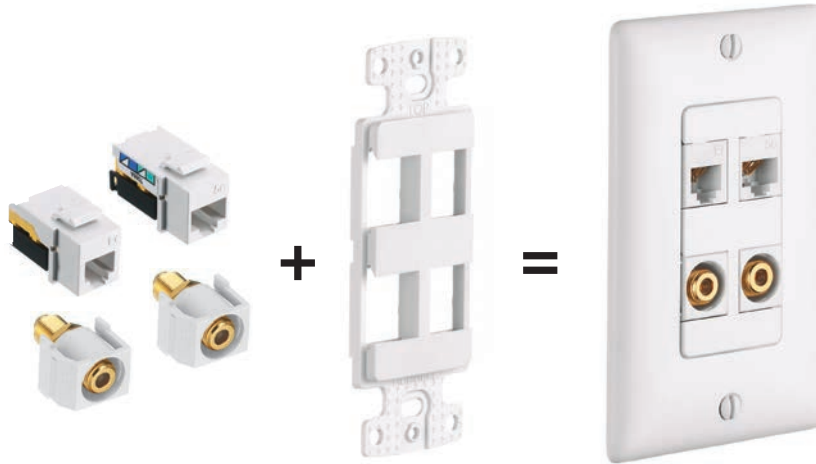


**FSPHD6X**



**NSOKA**

Customize the jack selections and look



**Molded-In Voice/Low-Speed Data - Modular Snap Fit**

Color	Category 6 Jack		Category 5e Jack		USOC Jack (single)
	(single)	(25 pack)	(single)	(25 pack)	
Black	NSJ6BK	NSJ6BK25	NSJ5EBK	NSJ5EBK25	NSJUBK
Blue	NSJ6B	NSJ6B25	NSJ5EB	NSJ5EB25	NSJUB
Gray	NSJ6GY	NSJ6GY25	NSJ5EGY	NSJ5EGY25	NSJUGY
Green	NSJ6GN	NSJ6GN25	NSJ5EGN	NSJ5EGN25	NSJUGN
Ivory	NSJ6I	NSJ6I25	NSJ5EI	NSJ5EI25	NSJUI
Light Almond	NSJ6LA	NSJ6LA25	NSJ5ELA	NSJ5ELA25	NSJULA
Orange	NSJ6OR	NSJ6OR25	NSJ5EOR	NSJ5EOR25	NSJUOR
Red	NSJ6R	NSJ6R25	NSJ5ER	NSJ5ER25	NSJUR
White	NSJ6W	NSJ6W25	NSJ5EW	NSJ5EW25	NSJUW
Yellow	NSJ6Y	NSJ6Y25	NSJ5EY	NSJ5EY25	NSJUY

**Audio/Video Connectors - Standard Bulkhead**

Color	Nickel F-Type Coupler Bulkhead, Female to Female	Gold F-Type Coupler Bulkhead, Female to Female	RCA Gold Pass Through, Female to Female, Red Interior	RCA Gold Pass Through, Female to Female, White Interior	RCA Gold Pass Through, Female to Female, Yellow Interior	RCA Gold Pass Through, Female to Female, Blue Interior	RCA Gold Pass Through, Female to Female, Green Interior
Black	NSF70BK	SFFGBK	SFRCRFFBK	SFRCWFFBK	SFRCYFFBK	SFRCBFFBK	SFRCGNFFBK
Gray	NSF70GY	SFFGGY	SFRCRFFGY	SFRCWFFGY	SFRCYFFGY	SFRCBFFGY	SFRCGNFFGY
Ivory	NSF70I	SFFGEI	SFRCRFFEI	SFRCWFFEI	SFRCYFFEI	SFRCBFFEI	SFRCGNFFEI
Light Almond	NSF70LA	SFFGLA	SFRCRFFLA	SFRCWFFLA	SFRCYFFLA	SFRCBFFLA	SFRCGNFFLA
White	NSF70W	SFFGW	SFRCRFFW	SFRCWFFW	SFRCYFFW	SFRCBFFW	SFRCGNFFW

**Audio/Video Connectors - Recessed**

Color	Gold F-Type Coupler Bulkhead, Female to Female	RCA Gold Pass Through, Female to Female, Red Interior	RCA Gold Pass Through, Female to Female, White Interior	RCA Gold Pass Through, Female to Female, Yellow Interior	RCA Gold Pass Through, Female to Female, Blue Interior	RCA Gold Pass Through, Female to Female, Green Interior	Blank Insert
Black	SFGRFBK	SFRCRRBK	SFRCWRBK	SFRCYRBK	SFRCBRBK	SFRCGNRBK	SFSBBK10*
Gray	SFGRFGY	SFRCRRGY	SFRCWRGY	SFRCYRGY	SFRCBRGY	SFRCGNRGY	SFSBGY10*
Ivory	SFGRFEI	SFRCRREI	SFRCWREI	SFRCYREI	SFRCBREI	SFRCGNREI	SFSBEI10*
Light Almond	SFGRFLA	SFRCRRLA	SFRCWRLA	SFRCYRLA	SFRCBRLA	SFRCGNRLA	SFSBLA10*
White	SFGRFW	SFRCRRW	SFRCWRW	SFRCYRW	SFRCBRW	SFRCGNRW	SFSBW10*

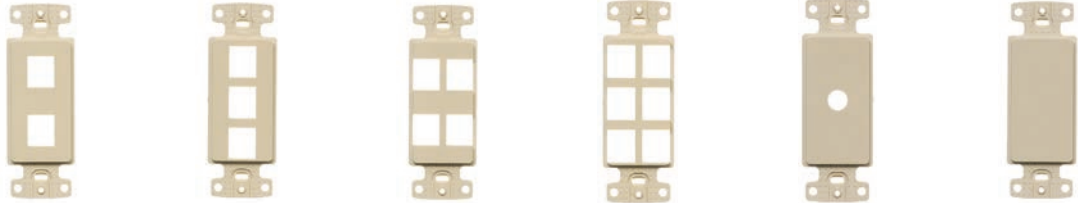
Note: \*Sold in a package of 10. Order 1 to receive a bag of 10 blanks.

**Features**

Decorator frames provide a stylized look for that finishing touch. This allows all devices to match. Multimedia jacks insert into frame for custom configuration.

- Elongated strap for better wall box mounting
- High impact-resistant thermoplastic frame
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

**Decorator Frames**



Color	1-Gang, 2-Port	1-Gang, 3-Port	1-Gang, 4-Port	1-Gang, 6-Port	1-Gang, Adapter .406" (10.30 Dia. Hole)*	1-Gang, Adapter Blank**
Black	<b>NS612BK</b>	<b>NS613BK</b>	<b>NS614BK</b>	<b>NS616BK</b>	<b>NS621BK</b>	<b>NS620BK</b>
Gray	<b>NS612GY</b>	<b>NS613GY</b>	<b>NS614GY</b>	<b>NS616GY</b>	<b>NS621GY</b>	<b>NS620GY</b>
Ivory	<b>NS612I</b>	<b>NS613I</b>	<b>NS614I</b>	<b>NS616I</b>	<b>NS621I</b>	<b>NS620I</b>
Light Almond	<b>NS612LA</b>	<b>NS613LA</b>	<b>NS614LA</b>	<b>NS616LA</b>	<b>NS621LA</b>	<b>NS620LA</b>
White	<b>NS612W</b>	<b>NS613W</b>	<b>NS614W</b>	<b>NS616W</b>	<b>NS621W</b>	<b>NS620W</b>

Note: \*For use with rotary dimmers or to pull through AV or telephone cable.  
 \*\*To fill an extra decorator opening or to create customized openings.

**Multimedia Face Plates**



Description	1-Gang, 1-Port Plate		1-Gang, 2-Port Plate		1-Gang, 3-Port Plate	
	Standard (4.63" x 2.88")	Mid-Size (4.88" x 3.13")	Standard (4.63" x 2.88")	Mid-Size (4.88" x 3.13")	Standard (4.63" x 2.88")	Mid-Size (4.88" x 3.13")
Color						
Black	<b>NSP11BK</b>	<b>NSP101BK</b>	<b>NSP12BK</b>	<b>NSP102BK</b>	<b>NSP13BK</b>	<b>NSP103BK</b>
Gray	<b>NSP11GY</b>	<b>NSP101GY</b>	<b>NSP12GY</b>	<b>NSP102GY</b>	<b>NSP13GY</b>	<b>NSP103GY</b>
Ivory	<b>NSP11I</b>	<b>NSP101I</b>	<b>NSP12I</b>	<b>NSP102I</b>	<b>NSP13I</b>	<b>NSP103I</b>
Light Almond	<b>NSP11LA</b>	<b>NSP101LA</b>	<b>NSP12LA</b>	<b>NSP102LA</b>	<b>NSP13LA</b>	<b>NSP103LA</b>
White	<b>NSP11W</b>	<b>NSP101W</b>	<b>NSP12W</b>	<b>NSP102W</b>	<b>NSP13W</b>	<b>NSP103W</b>



Description	1-Gang, 4-Port Plate		1-Gang, 6-Port Plate		2-Gang, 4-Port Plate	2-Gang, 6-Port Plate
	Standard (4.63" x 2.88")	Mid-Size (4.88" x 3.13")	Standard (4.63" x 2.88")	Mid-Size (4.88" x 3.13")	Standard (4.63" x 4.69")	Standard (4.63" x 4.69")
Color						
Black	<b>NSP14BK</b>	<b>NSP104BK</b>	<b>NSP16BK</b>	<b>NSP106BK</b>	<b>NSP24BK</b>	<b>NSP26BK</b>
Gray	<b>NSP14GY</b>	<b>NSP104GY</b>	<b>NSP16GY</b>	<b>NSP106GY</b>	<b>NSP24GY</b>	<b>NSP26GY</b>
Ivory	<b>NSP14I</b>	<b>NSP104I</b>	<b>NSP16I</b>	<b>NSP106I</b>	<b>NSP24I</b>	<b>NSP26I</b>
Light Almond	<b>NSP14LA</b>	<b>NSP104LA</b>	<b>NSP16LA</b>	<b>NSP106LA</b>	<b>NSP24LA</b>	<b>NSP26LA</b>
White	<b>NSP14W</b>	<b>NSP104W</b>	<b>NSP16W</b>	<b>NSP106W</b>	<b>NSP24W</b>	<b>NSP26W</b>

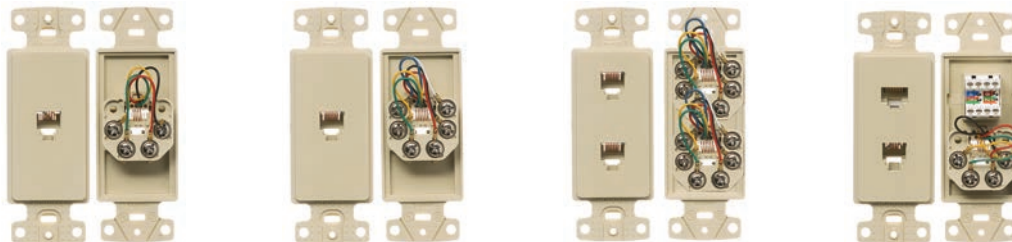


**Features**

Designed to complement decorator styling, these jacks offer voice and Cat. 5e devices to fit within a decorator wallplate.

- High impact-resistant thermoplastic frame
- Meets FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

**Molded-In Voice/Low-Speed Data**



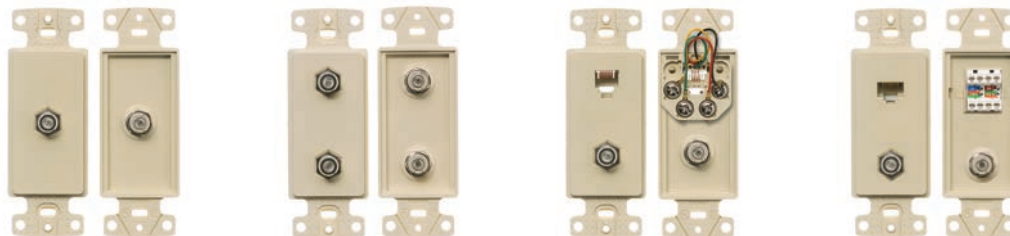
Description	Decorator Frame, One RJ11 Jack, 6-Position, 4-Conductor	Decorator Frame, One RJ11 Jack, 6-Position, 6-Conductor	Decorator Frame, Duplex RJ11 Jacks, 6-Position, 6-Conductor	Decorator Frame, One Cat. 5e 110 Punch-Down, One RJ11 Jack, 6-Position, 4-Conductor
Color	Screw Terminations	Screw Terminations	Screw Terminations	Screw Terminations
Black	<b>NS770BK</b>	—	—	<b>NS784BK</b>
Brown	<b>NS770</b>	<b>NS771</b>	—	<b>NS784</b>
Gray	<b>NS770GY</b>	—	—	<b>NS784GY</b>
Ivory	<b>NS770I</b>	<b>NS771I</b>	<b>NS772I</b>	<b>NS784I</b>
Light Almond	<b>NS770LA</b>	<b>NS771LA</b>	<b>NS772LA</b>	<b>NS784LA</b>
White	<b>NS770W</b>	<b>NS771W</b>	<b>NS772W</b>	<b>NS784W</b>

**Features**

Coaxial video and combination jacks complement multimedia needs in a 1-gang decorator opening.

- High impact-resistant thermoplastic frame
- Jacks meet FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

**Molded-In Voice/Low-Speed Data**



Description	Decorator Frame, Single F-Type Coupler Bulkhead, Female to Female	Decorator Frame, Duplex F-Type Coupler Bulkhead, Female to Female	Decorator Frame, One RJ11 Jack, 6-Position, 4-Conductor, One F-Type Coupler Bulkhead, Female to Female	Decorator Frame, One Cat. 5e 110 Punch-Down, One F-Type Coupler Bulkhead, Female to Female
Color	Screw Terminations	Screw Terminations	Screw Terminations	Screw Terminations
Black	—	—	—	<b>NS785BK</b>
Brown	—	—	—	<b>NS785</b>
Gray	—	—	—	<b>NS785GY</b>
Ivory	<b>NS780I</b>	<b>NS782I</b>	<b>NS783I</b>	<b>NS785I</b>
Light Almond	<b>NS780LA</b>	<b>NS782LA</b>	<b>NS783LA</b>	<b>NS785LA</b>
White	<b>NS780W</b>	<b>NS782W</b>	<b>NS783W</b>	<b>NS785W</b>

**Features**

Designed for voice, these devices provide an economical alternative to wall phone outlet placement.

- High impact-resistant thermoplastic plate
- Convenient screw down terminals
- Meets FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

**Molded-In Plates for Voice**



1-Gang Plate,  
One RJ11 Jack,  
6-Position, 4-Conductor,  
Screw Terminations



1-Gang Plate,  
One RJ11 Jack,  
6-Position, 6-Conductor,  
Screw Terminations



1-Gang Plate,  
Duplex RJ11 Jacks,  
6-Position, 4-Conductor,  
Screw Terminations



1-Gang Plate,  
Duplex RJ11 Jacks,  
6-Position, 6-Conductor,  
Screw Terminations

Description	1-Gang Plate, One RJ11 Jack, 6-Position, 4-Conductor, Screw Terminations		1-Gang Plate, One RJ11 Jack, 6-Position, 6-Conductor, Screw Terminations		1-Gang Plate, Duplex RJ11 Jacks, 6-Position, 4-Conductor, Screw Terminations		1-Gang Plate, Duplex RJ11 Jacks, 6-Position, 6-Conductor, Screw Terminations	
Color	Standard	Mid-Size	Standard	Standard	Mid-Size	Standard	Standard	
Brown	<b>NS730</b>	<b>NS735</b>	<b>NS732</b>	—	—	—	—	
Ivory	<b>NS730I</b>	<b>NS735I</b>	<b>NS732I</b>	<b>NS742I</b>	<b>NS745I</b>	<b>NS744I</b>	—	
Light Almond	<b>NS730LA</b>	<b>NS735LA</b>	<b>NS732LA</b>	<b>NS742LA</b>	—	—	—	
White	<b>NS730W</b>	<b>NS735W</b>	<b>NS732W</b>	<b>NS742W</b>	<b>NS745W</b>	<b>NS744W</b>	<b>NS744W</b>	

**Molded-In Plates for Voice and CATV/Satellite**



1-Gang Plate,  
One F-Type Coupler Bulkhead,  
Female to Female,  
One RJ11 Jack,  
6-Position, 6-Conductor



1-Gang Plate,  
One F-Type Coupler Bulkhead,  
Female to Female,  
One RJ11 Jack,  
6-Position, 4-Conductor



1-Gang Plate,  
One F-Type Coupler Bulkhead,  
Female to Female



1-Gang Plate,  
Duplex F-Type Coupler Bulkhead,  
Female to Female

Description	1-Gang Plate, One F-Type Coupler Bulkhead, Female to Female, One RJ11 Jack, 6-Position, 6-Conductor		1-Gang Plate, One F-Type Coupler Bulkhead, Female to Female, One RJ11 Jack, 6-Position, 4-Conductor		1-Gang Plate, One F-Type Coupler Bulkhead, Female to Female		1-Gang Plate, Duplex F-Type Coupler Bulkhead, Female to Female	
Color	Standard	Mid-Size	Standard	Standard	Mid-Size	Standard	Standard	
Ivory	<b>NS748I</b>	<b>NS755I</b>	<b>NS747I</b>	<b>NS750I</b>	<b>NS751I</b>	<b>NS752I</b>	<b>NS752I</b>	
Light Almond	<b>NS748LA</b>	<b>NS755LA</b>	<b>NS747LA</b>	<b>NS750LA</b>	<b>NS751LA</b>	<b>NS752LA</b>	<b>NS752LA</b>	
White	<b>NS748W</b>	<b>NS755W</b>	<b>NS747W</b>	<b>NS750W</b>	<b>NS751W</b>	<b>NS752W</b>	<b>NS752W</b>	



1-Gang Plate,  
One Cat. 5e 110 Punch-Down  
One RJ11 Jack,  
6-Position, 4-Conductor  
One F-Type Coupler Bulkhead,  
Female to Female

Description	1-Gang Plate, One Cat. 5e 110 Punch-Down, One RJ11 Jack, 6-Position, 4-Conductor, One F-Type Coupler Bulkhead, Female to Female	
Color	Standard	
Black	<b>NS790BK</b>	
Brown	<b>NS790</b>	
Gray	<b>NS790GY</b>	
Ivory	<b>NS790I</b>	
Light Almond	<b>NS790LA</b>	
White	<b>NS790W</b>	

## Features

Designed for voice applications, these jacks provide an economical alternative to basic wall mount and performance needs.

- Available in high impact-resistant thermoplastic or stainless steel
- Meets FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

## Telephone Wall Jacks





			
Description	Wall Phone Jack Quick Connect, 6-Position, 4-Conductor, Punch-Down Termination Tool Included	Wall Phone Jack, 6-Position, 4-Conductor, Screw Terminations	Wall Phone Jack, 6-Position, 6-Conductor, Screw Terminations
Ivory	<b>NS721I</b>	<b>NS722I</b>	<b>NS725I</b>
Light Almond	—	—	<b>NS725LA</b>
White	<b>NS721W</b>	<b>NS722W</b>	<b>NS725W</b>
			
Description	Wall Phone Jack Quick Connect, 6-Position, 4-Conductor, Punch-Down Termination Tool Included	Wall Phone Jack, 6-Position, 4-Conductor, Screw Terminations	
Stainless Steel	<b>NS723SS</b>	<b>NS726SS</b>	

## Features

Telephone surface mount jacks are available in 4- or 6-conductor configurations for voice. Alternatively, multimedia surface mount boxes can be custom loaded for computer and media use.

- High impact-resistant thermoplastic
- Mounts using screws or double sided tape (both included)
- Meets FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

## Telephone Wall Jacks

				
Description	Telephone Surface Mount Jack, 6-Position, 4-Conductor, Screw Terminations	Telephone Surface Mount Jack, 6-Position, 6-Conductor, Screw Terminations	Multimedia 1-Port Surface Mount Box, Jack Not Included	Multimedia 2-Port Surface Mount Box, Jacks Not Included
Ivory	<b>NS760I</b>	<b>NS761I</b>	<b>ISB1E1*</b>	<b>ISB2E1*</b>
White	<b>NS760W</b>	<b>NS761W</b>	<b>ISB1W*</b>	<b>ISB2W*</b>

Note: \*cULus Listed 1863 - Communication Circuit Accessory.  
See page W-22 for snap fit multimedia jacks and AV connectors.



## Products at a Glance



### Decorator Switches

- Smooth, quiet rocker
- Self-grounding feature is standard
- Nightlight version is available
- Ultrasonically welded cover and base
- Operating temperature: -20°C to 60°C
- UL Listed, CSA Certified



### Decorator Duplex Receptacles

- Self-grounding feature is standard
- Tamper and weather resistant availability
- Multiple-drive Slot/Phillips/Robertson head screws
- Nightlight version is available
- Hi-visibility yellow base for easy installation
- Operating temperature: -20°C to 60°C
- UL Listed, CSA Certified



### GFCI Receptacles

- Patented AUTOGUARD® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Internal back wiring clamp and guide for quick and secure termination
- Night light option includes light sensor controls for automatic ON and OFF, custom dual lens for optimum light output



### Modular Snap Fit Jacks

- Customize the jack selections and look
- Molded-In voice/low-speed data, modular snap fit
- AV connectors, standard bulkhead
- AV connectors, recessed



### Passive Infrared Wall Switches and Timers

- Passive infrared technology
- Photocell (WS2000 series)
- No neutral required
- 1200 sq. ft. coverage
- Steel mounting strap
- Compatible with most LED and CFL
- CEC Title 24 and Ashrae 90.1 compliant
- cULus



### USB Charger Receptacles

- Two USB ports 5 Amp, 5V DC
- Patented Hubbell Tamper-Resistant technology uses cam action shutters
- Standard and Hospital grade
- cULus listed to UL498 and UL1310

### 4 Port and 2 Port USB Outlets

- 4 Port (5 Amp) and 2 Port (3 Amp), 5V DC
- Switch activated port door; when open enables power; when closed, all power is switched OFF, for a “zero” no-load draw
- Shallow depth design for two port



### Power Delivery

- Hubbell Pop-Up receptacles for countertops provide a power source ideal for kitchen or bath counters and islands
- Round non-metallic floor boxes for concrete floors
- Height adjustable wood floor boxes
- Drop-In floor boxes are perfect for quick and easy installations
- Under cabinet/counter power distribution boxes can also be placed under counter islands or kitchen cabinets
- JLOAD® multimedia outlet Isolates low voltage and power in the same box



## Decorator Quiet Rocker Switches

### Decorator Products - Smart Style, Good Looks

Residential Decorator Switches and Receptacles provide solid, dependable performance and more. Indeed, they are fashion statements, masterfully complementing the look and feel of any room in any home.

#### Single Pole Decorator Quiet Rocker Switches

Description	Single Pole	Single Pole, Illuminated	Single Pole, Pilot Light	Single Pole with Nightlight	Single Pole with ON/OFF Marking
Termination	Self-Grounding, Push, Back and Side Wire	Self-Grounding, Push, Back and Side Wire	Self-Grounding, Push, Back and Side Wire	Self-Grounding, Push, Back and Side Wire	Self-Grounding, Push, Back and Side Wire
Rating	15A 120-277V AC	15A 120V AC	15A 120V AC	20A 120-277V AC	15A 120-277V AC
Black	<b>RSD115BK</b>	—	—	<b>DS120NLBK**</b>	—
Brown	<b>RSD115</b>	—	—	<b>DS120NLBR**</b>	—
Gray	<b>RSD115GY</b>	—	—	<b>DS120NLGY**</b>	—
Ivory	<b>RSD115I</b>	<b>RSD115ILI*</b>	<b>RSD115PLI**</b>	<b>DS120NLIV**</b>	<b>RSD115IM</b>
Light Almond	<b>RSD115LA</b>	<b>RSD115ILLA*</b>	<b>RSD115PLLA**</b>	<b>DS120NLLA**</b>	<b>RSD115LAM</b>
White	<b>RSD115W</b>	<b>RSD115ILW*</b>	<b>RSD115PLW**</b>	<b>DS120NLWH**</b>	<b>RSD115WM</b>

Note: \*Light glows through the top portion of the rocker when switch is in the OFF position. Does not require a neutral wire.  
 \*\*Light glows through the top portion of the rocker when switch is in the OFF position. Requires a neutral wire.



RSD115W



RSD115PLW

#### Double Pole, Three Way and Four Way Decorator Quiet Rocker Switches

Description	Double Pole	Three Way	Three Way, Illuminated	Four Way
Termination	Self-Grounding, Back and Side Wire	Self-Grounding, Push, Back and Side Wire	Self-Grounding, Push, Back and Side Wire	Self-Grounding, Back and Side Wire
Rating	15A 120-277V AC	15A 120-277V AC	15A 120V AC	15A 120-277V AC
Black	<b>RSD215BK</b>	<b>RSD315BK</b>	—	<b>RSD415BK</b>
Brown	<b>RSD215</b>	<b>RSD315</b>	—	<b>RSD415</b>
Gray	<b>RSD215GY</b>	<b>RSD315GY</b>	—	<b>RSD415GY</b>
Ivory	<b>RSD215I</b>	<b>RSD315I</b>	<b>RSD315ILI*</b>	<b>RSD415I</b>
Light Almond	<b>RSD215LA</b>	<b>RSD315LA</b>	<b>RSD315ILLA*</b>	<b>RSD415LA</b>
White	<b>RSD215W</b>	<b>RSD315W</b>	<b>RSD315ILW*</b>	<b>RSD415W</b>

Note: \*Light glows through the top portion of the rocker when switch is in the OFF position. Does not require a neutral wire.



DS120NLWH

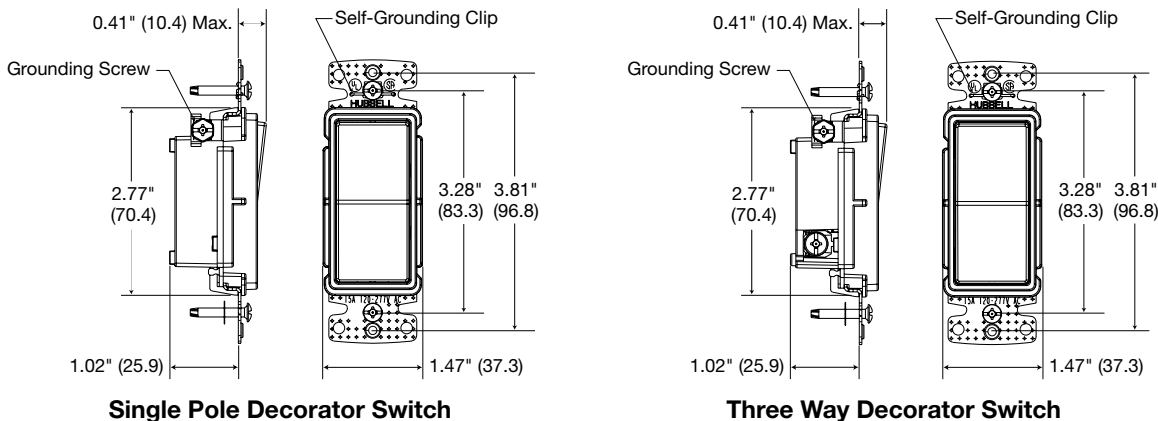


RSD115WM



RSD215W

#### Dimensions



Dimensions in Inches (mm)

## Decorator Combination Quiet Rocker Switches/Devices

### Features

- Low profile, less than 1 inch deep
- Self-grounding feature is standard
- Operating temperature: -20°C to 60°C
- UL Listed, CSA Certified

### Combination Quiet Rocker Switches/Devices



RCD111W



RCD101W



RCD108W



RCD109W



DD100NLWH

Description	Three (3) Single Pole Switches	Two (2) Single Pole Switches	Single Pole and Three Way Switch	Single Pole Switch, 2 Pole, 3 Wire Receptacle
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 120-277V AC	15A 120-277V AC	15A 120-277V AC	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R
Black	—	<b>RCD101BK</b>	<b>RCD103BK</b>	<b>RCD108BK</b>
Gray	—	<b>RCD101GY</b>	<b>RCD103GY</b>	<b>RCD108GY</b>
Ivory	<b>RCD111I</b>	<b>RCD101I</b>	<b>RCD103I</b>	<b>RCD108I</b>
Light Almond	<b>RCD111LA</b>	<b>RCD101LA</b>	<b>RCD103LA</b>	<b>RCD108LA</b>
White	<b>RCD111W</b>	<b>RCD101W</b>	<b>RCD103W</b>	<b>RCD108W</b>

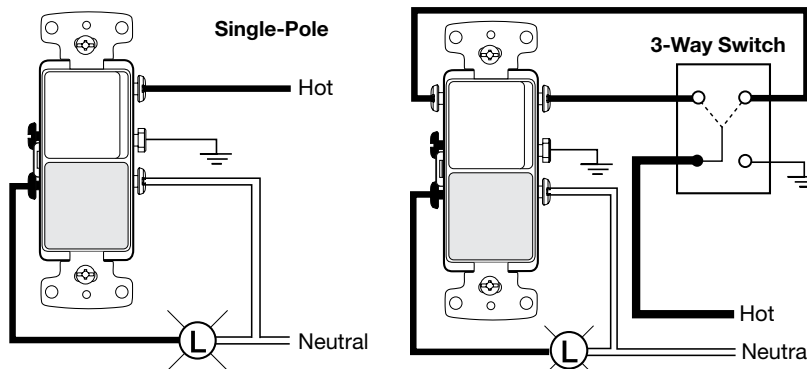
Description	* Single Pole Switch, Tamper-Resistant, 2 Pole, 3 Wire, Receptacle	Two (2) Three Way Switches	* Three Way Switch, Tamper-Resistant, 2 Pole, 3 Wire, Receptacle
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R	15A 120-277V AC	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R
Black	<b>RCD108BKTR</b>	<b>RCD303BK</b>	<b>RCD308BKTR</b>
Gray	<b>RCD108GYTR</b>	<b>RCD303GY</b>	<b>RCD308GYTR</b>
Ivory	<b>RCD108ITR</b>	<b>RCD303I</b>	<b>RCD308ITR</b>
Light Almond	<b>RCD108LATR</b>	<b>RCD303LA</b>	<b>RCD308LATR</b>
White	<b>RCD108WTR</b>	<b>RCD303W</b>	<b>RCD308WTR</b>

Description	Single Pole Switch, Pilot Light, Clear Lens, Amber Neon Bulb	Three Way Switch, Pilot Light, Clear Lens, Amber Neon Bulb	Nightlight Only
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, 6" Pre-wired Stranded Wire, 1/2" Stripped Ends
Rating	15A 120V	15A 120V	120V
Ivory	<b>RCD109I**</b>	<b>RCD309I**</b>	<b>DD100NLIV**</b>
Light Almond	<b>RCD109LA**</b>	<b>RCD309LA**</b>	<b>DD100NLLA**</b>
White	<b>RCD109W**</b>	<b>RCD309W**</b>	<b>DD100NLWH**</b>

Note: See page Tech-10 for Tamper-Resistant description.

\*\*Requires neutral wire.

### Pilot Light Wiring Diagram



Dimensions in Inches (mm)

## Decorator Weather Resistant, Tamper-Resistant, Standard and Single Receptacles

### Decorator Duplex Receptacles, 2 Pole, 3 Wire

Description	* * Weather and Tamper-Resistant	* Tamper-Resistant	Standard	Standard
Termination	Self-Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire	Push and Side Wire
Rating	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R
Black	<b>RRD15SBKWRTR</b>	<b>RRD15SBKTR</b>	<b>RRD15SBK</b>	<b>RRD15BK</b>
Brown	<b>RRD15SWRTR</b>	<b>RRD15STR</b>	<b>RRD15S</b>	<b>RRD15</b>
Gray	<b>RRD15SGYWRTR</b>	<b>RRD15SGYTR</b>	<b>RRD15SGY</b>	<b>RRD15GY</b>
Ivory	<b>RRD15SIWRTR</b>	<b>RRD15SITR</b>	<b>RRD15SI</b>	<b>RRD15I</b>
Light Almond	<b>RRD15SLAWRTR</b>	<b>RRD15SLATR</b>	<b>RRD15SLA</b>	<b>RRD15LA</b>
White	<b>RRD15SWRTR</b>	<b>RRD15SWTR</b>	<b>RRD15SW</b>	<b>RRD15W</b>



RRD15SWTR

Description	* Tamper-Resistant, Nightlight Receptacle	* Tamper-Resistant	* Tamper-Resistant, Without Ears**
Termination	Self-Grounding, Two Nightlight Sources for 0.5 Lumens Total, Back and Side Wired	Self-Grounding, Eight Push Wire Holes Only #14 AWG	Self-Grounding, Push and Side Wire
Rating	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R
Black	—	<b>RRD15EBKTR</b>	<b>RRD15KBKTR</b>
Brown	—	<b>RRD15ETR</b>	<b>RRD15KTR</b>
Gray	—	<b>RRD15EGYTR</b>	<b>RRD15KGYTR</b>
Ivory	<b>DR15NLIV</b>	<b>RRD15EITR</b>	<b>RRD15KITR</b>
Light Almond	<b>DR15NLLA</b>	<b>RRD15ELATR</b>	<b>RRD15KLATR</b>
White	<b>DR15NLWH</b>	<b>RRD15EWTR</b>	<b>RRD15KWTR</b>



RRD15SW



DR15NLWH

Note: See page Tech-10 for Weather and Tamper-Resistant descriptions.  
\*\*100 per case, bulk packed. Mounting screws inserted into strap.

### Decorator Single Receptacles, 2 Pole, 3 Wire

Description	* Tamper-Resistant	* Tamper-Resistant	Standard
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 125V NEMA 5-15R	20A 125V NEMA 5-20R	20A 125V NEMA 5-20R
Black	<b>RRD151BKTR</b>	<b>RRD201BKTR</b>	<b>RRD201BK</b>
Brown	<b>RRD151TR</b>	<b>RRD201TR</b>	<b>RRD201</b>
Gray	<b>RRD151GYTR</b>	<b>RRD201GYTR</b>	<b>RRD201GY</b>
Ivory	<b>RRD151ITR</b>	<b>RRD201ITR</b>	<b>RRD201I</b>
Light Almond	<b>RRD151LATR</b>	<b>RRD201LATR</b>	<b>RRD201LA</b>
White	<b>RRD151WTR</b>	<b>RRD201WTR</b>	<b>RRD201W</b>



RRD151W

Description	Standard	Standard
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 250V NEMA 6-15R	20A 250V NEMA 6-20R
Black	<b>RRD155BK</b>	<b>RRD205BK</b>
Brown	<b>RRD155</b>	<b>RRD205</b>
Gray	<b>RRD155GY</b>	<b>RRD205GY</b>
Ivory	<b>RRD155I</b>	<b>RRD205I</b>
Light Almond	<b>RRD155LA</b>	<b>RRD205LA</b>
White	<b>RRD155W</b>	<b>RRD205W</b>



RRD205W

Note: See page Tech-10 for Tamper-Resistant description.

Dimensions in Inches (mm)

## Features and Benefits

### USB Charger Receptacles and Outlets

Hubbell USB Chargers are available in the new Type-C port, a combination unit with Type A and C, and the legacy Type A, all with more power. The increase in power to a 5 Amp 5 Volt USB port adds capacity so that there is always ample current to support multiple device charging. Portable mobile manufacturers recently announced products using the faster Type-C ports. More phones, tablets and other electronic devices are expected to use this new standard.

- Compliant with USB BC1.2 battery charging and 3.0 power delivery; compatible with USB 2.0, 3.0 and 3.1 devices
- USB Type-C port is legacy USB Type A compatible (with adapter cord - not included)
- Heavy duty stainless steel USB ports; rated for 10,000 cord insertions and removals
- Patented Hubbell Tamper-Resistant technology uses cam action shutters. When two plug blades are inserted the interlocked cams slide an insulating barrier out of the way
- The friction-free design of the mechanism's doors requires much less force, allowing the plug to slide in effortlessly
- Designed for commercial, industrial and home use

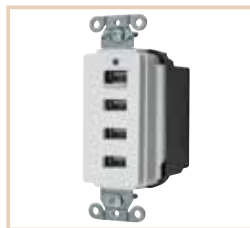


**USB15AC5W**



#### Type-C USB Charger

- Two Type-C port configurations, high power 5 Amp, 5 Volt USB output
- Standard and Hospital grade
- Heavy duty stainless steel USB ports; rated for 10,000 cord insertions and removals
- Patented Hubbell Tamper-Resistant technology uses cam action shutters



#### 4 Port USB Charger

- 4 Port outlet, 5 Amp, 5V DC, type A, class 2.0
- Switch activated port door; when open enables power. When closed, all power is switched off, for a “zero” no-load draw
- cETLus listed to UL1310



#### Type A&C USB Charger

- One Type A and one Type-C port configurations, high power 5 Amp, 5 Volt USB output
- Standard and Hospital grade
- Heavy duty stainless steel USB ports; rated for 10,000 cord insertions and removals
- Patented Hubbell Tamper-Resistant technology uses cam action shutters



#### 2 Port USB Charger

- 2 Port outlet, 3 Amp, 5V DC, type A, class 2.0
- Switch activated port door; when open enables power. When closed, all power is switched off, for a “zero” no-load draw
- Shallow depth design
- cULus listed to UL1310



#### Type A USB Charger

- Two Type A port configurations, high power 5 Amp, 5 Volt USB output
- Standard and Hospital grade
- Heavy duty stainless steel USB ports; rated for 10,000 cord insertions and removals
- Patented Hubbell Tamper-Resistant technology uses cam action shutters



#### Switch Combo Outlets

- Two USB ports 2.1 Amp, 5Volt DC, type A, class 2.0
- Isolated 15 Amp, 120V AC single pole/ 3-way switch
- cULus listed to UL20 and UL1310

## USB Charger Receptacles and Outlets



### USB Charger Type-C

Description	Color	15A 125V	20A 125V
USB Charger Outlet: two Type-C port configurations, high power 5 Amp, 5 Volt USB output, USB ports rated 10,000 cycles, Commercial Grade Tamper-Resistant duplex receptacle. Available in Hospital grade, see section A or L.	Black	<b>USB15C5BK</b>	<b>USB20C5BK</b>
	Brown	<b>USB15C5</b>	<b>USB20C5</b>
	Gray	<b>USB15C5GY</b>	<b>USB20C5GY</b>
	Ivory	<b>USB15C5I</b>	<b>USB20C5I</b>
	Light Almond	<b>USB15C5LA</b>	<b>USB20C5LA</b>
	White	<b>USB15C5W</b>	<b>USB20C5W</b>



### USB Charger Combination Type A&C

Description	Color	15A 125V	20A 125V
USB Charger Outlet: one Type A and one Type-C port configurations, high power 5 Amp, 5 Volt USB output, USB ports rated 10,000 cycles, Commercial Grade Tamper-Resistant duplex receptacle. Available in Hospital grade, see section A or L.	Black	<b>USB15AC5BK</b>	<b>USB20AC5BK</b>
	Brown	<b>USB15AC5</b>	<b>USB20AC5</b>
	Gray	<b>USB15AC5GY</b>	<b>USB20AC5GY</b>
	Ivory	<b>USB15AC5I</b>	<b>USB20AC5I</b>
	Light Almond	<b>USB15AC5LA</b>	<b>USB20AC5LA</b>
	White	<b>USB15AC5W</b>	<b>USB20AC5W</b>



### USB Charger Type A

Description	Color	15A 125V	20A 125V
USB Charger Outlet: two Type A port configurations, high power 5 Amp, 5 Volt USB output, USB ports rated 10,000 cycles, Commercial Grade Tamper-Resistant duplex receptacle. Available in Hospital grade, see section A or L.	Black	<b>USB15A5BK</b>	<b>USB20A5BK</b>
	Brown	<b>USB15A5</b>	<b>USB20A5</b>
	Gray	<b>USB15A5GY</b>	<b>USB20A5GY</b>
	Ivory	<b>USB15A5I</b>	<b>USB20A5I</b>
	Light Almond	<b>USB15A5LA</b>	<b>USB20A5LA</b>
	White	<b>USB15A5W</b>	<b>USB20A5W</b>



Note: See page Tech-10 for Tamper-Resistant description.

### USB Charger Outlets

Description	Color	4 Port Outlet, 5 Amp, 5 Volt DC	2 Port Outlet, Shallow Profile, 3 Amp, 5 Volt DC
USB Charger 2 or 4 Port Outlets, USB Type 2.0 Ports, decorator.	Black	<b>USB4BK</b>	<b>USB2BK</b>
	Brown	<b>USB4</b>	<b>USB2</b>
	Gray	<b>USB4GY</b>	<b>USB2GY</b>
	Ivory	<b>USB4I</b>	<b>USB2I</b>
	Light Almond	<b>USB4LA</b>	<b>USB2LA</b>
	White	<b>USB4W</b>	<b>USB2W</b>



### Switch Combo Outlets

Description	Color	Catalog Number
Switch Combo Outlet, two USB type 2.0 ports, 2.1 Amp, 5 Volt DC, Style Line® decorator	Black	<b>USB102BK</b>
	Brown	<b>USB102</b>
	Gray	<b>USB102GY</b>
	Ivory	<b>USB102I</b>
	Light Almond	<b>USB102LA</b>
	White	<b>USB102W</b>





## GFCI Receptacles with Auto Grounding

Meets UL Standard 943  
Class A GFCI

### Features

- Patented AUTOGUARD® self test technology includes disconnecting power to the receptacle if critical components are damaged and GFCI protection is lost
- Internal back wiring clamp and guide for quick and secure termination
- Night light option includes light sensor controls for automatic ON and OFF, custom dual lens for optimum light output



### Tamper-Resistant

Rating	Color	Standard	Night Light Two LED Night Lights	Alarm	Combination Switch 15A 120V Switch	Standard 3-Pack Three Devices per Pack
	Almond	GFTRST15AL	GFTRST15ALNL	GFTRST15ALB	—	—
	Black	GFTRST15BK	GFTRST15BKNL	GFTRST15BKB	—	—
	Brown	GFTRST15	GFTRST15NL	GFTRST15B	—	—
	Gray	GFTRST15GY	GFTRST15GYNL	GFTRST15GYB	—	—
	Ivory	GFTRST15I	GFTRST15INL	GFTRST15IB	GFSPST15I	GFTRST15I3
	Light Almond	GFTRST15LA	GFTRST15LANL	GFTRST15LAB	GFSPST15LA	GFTRST15LA3
	Red	GFTRST15R	GFTRST15RNL	GFTRST15RB	—	—
	White	GFTRST15W	GFTRST15WNL	GFTRST15WB	GFSPST15W	GFTRST15W3
		Almond	GFTRST20AL	GFTRST20ALNL	GFTRST20ALB	—
Black		GFTRST20BK	GFTRST20BKNL	GFTRST20BKB	—	—
Brown		GFTRST20	GFTRST20NL	GFTRST20B	—	—
Gray		GFTRST20GY	GFTRST20GYNL	GFTRST20GYB	—	—
Ivory		GFTRST20I	GFTRST20INL	GFTRST20IB	—	GFTRST20I3
Light Almond		GFTRST20LA	GFTRST20LANL	GFTRST20LAB	—	GFTRST20LA3
Red		GFTRST20R	GFTRST20RNL	GFTRST20RB	—	—
White		GFTRST20W	GFTRST20WNL	GFTRST20WB	—	GFTRST20W3



### Tamper-Resistant Weather Resistant



Rating	Color	Standard	Isolated Ground
	Almond	GFTWRST15AL	GFTWRST15ALIG
	Black	GFTWRST15BK	GFTWRST15BKIG
	Brown	GFTWRST15	GFTWRST15IG
	Gray	GFTWRST15GY	GFTWRST15GYIG
	Ivory	GFTWRST15I	GFTWRST15IIG
	Light Almond	GFTWRST15LA	GFTWRST15LAIG
	Red	GFTWRST15R	GFTWRST15RIG
	White	GFTWRST15W	GFTWRST15WIG
		Almond	GFTWRST20AL
Black		GFTWRST20BK	GFTWRST20BKIG
Brown		GFTWRST20	GFTWRST20IG
Gray		GFTWRST20GY	GFTWRST20GYIG
Ivory		GFTWRST20I	GFTWRST20IIG
Light Almond		GFTWRST20LA	GFTWRST20LAIG
Red		GFTWRST20R	GFTWRST20RIG
White		GFTWRST20W	GFTWRST20WIG

Note: See page Tech-10 for Weather and Tamper-Resistant descriptions.  
See section K for complete Hubbell GFCI offering.

## Recessed Receptacles and AV Wallboxes

Hubbell has solutions for residential environments where wire management is a concern. Products sit flush against the wall and are available in multiple colors, creating an aesthetically pleasing look. Large connectors and cables are held securely and bundled together neatly. Wires are concealed behind the wall and out of view. Snap Fit options are used for customizing your connections.

### Features

#### Receptacles

- Snap Fit is configurable to accommodate multiple connectors such as: HDMI, AV and Voice/Low-speed data
- Feed-through options allows you to make direct connections
- 15A 125V
- Back and side wired

#### Boxes

- Available in plastic or metal boxes to accommodate local building requirements



Recessed Receptacle with Feed-Through

Metal Wallbox with Divider



RR1510I



RR1512I



RR1514I



NSAV1I



NSAV2I

### Recessed Receptacles

15A 125V, Tamper-Resistant Duplex Receptacle

Color	2-Gang with Feed-Through		2-Gang with Snap Fit
	1-Gang	2-Gang with Feed-Through	2-Gang with Snap Fit
Ivory	<b>RR1510I</b>	<b>RR1512I</b>	<b>RR1514I</b>
Light Almond	<b>RR1510LA</b>	<b>RR1512LA</b>	<b>RR1514LA</b>
White	<b>RR1510W</b>	<b>RR1512W</b>	<b>RR1514W</b>

### Feed-Through Plates

Color	1-Gang	2-Gang
Ivory	<b>NSAV1I*</b>	<b>NSAV2I*</b>
White	<b>NSAV1W*</b>	<b>NSAV2W*</b>

Note: \*Not UL Listed.



HBL985



HBL986



HBL989



RR1500

### Two and Three Gangable AV Wallboxes

Box	Dimensions			Top Knockouts	Bottom Knockouts	Back Knockouts	Catalog Number
	Height	Width	Depth				
2-Gang, 2" KO, 54 in <sup>3</sup> capacity	4.21" (107)	4.06" (103)	4.0" (102)	(2) 1/2" (2) 1/2" - 3/4" TKO*	(1) 1", 1 1/4", 1 1/2" and 2"	(2) 1/2" - 3/4" TKO	<b>HBL985</b>
3-Gang, 2" KO, 79 in <sup>3</sup> capacity	4.21" (107)	5.87" (149)	4.0" (102)	(3) 1/2" (3) 1/2" - 3/4" TKO*	(1) 1/2", (1) 1/2" - 3/4" TKO* (1) 1", 1 1/4", 1 1/2" and 2"	(3) 1/2" - 3/4" TKO	<b>HBL986</b>

Note: \*TKO (Tangential Knockout).

### Wallbox

Description	Color	Catalog Number
2-Gang, nail-on box, thermoplastic	Blue	<b>RR1500</b>

### Low Voltage AV Wallbox Partitions

Compatible With	Description	Quantity	Catalog Number
HBL985 and HBL986	Solid divider	1	<b>HBL989</b>
	With pass-through capability	1	<b>HBL989AVD</b>

Dimensions in Inches (mm)

## Decorator Frames and Modular Snap Fit Jacks

### Decorator Frames



Color	1-Gang, 1-Port	1-Gang, 2-Port	1-Gang, 3-Port	1-Gang, 4-Port	1-Gang, 6-Port	1-Gang, Adapter .406" (10.30) Dia. Hole*	1-Gang, Adapter Blank**
Black	<b>NS611BK</b>	<b>NS612BK</b>	<b>NS613BK</b>	<b>NS614BK</b>	<b>NS616BK</b>	—	<b>NS620BK</b>
Gray	<b>NS611GY</b>	<b>NS612GY</b>	<b>NS613GY</b>	<b>NS614GY</b>	<b>NS616GY</b>	—	<b>NS620GY</b>
Ivory	<b>NS611I</b>	<b>NS612I</b>	<b>NS613I</b>	<b>NS614I</b>	<b>NS616I</b>	<b>NS621I</b>	<b>NS620I</b>
Light Almond	<b>NS611LA</b>	<b>NS612LA</b>	<b>NS613LA</b>	<b>NS614LA</b>	<b>NS616LA</b>	<b>NS621LA</b>	<b>NS620LA</b>
White	<b>NS611W</b>	<b>NS612W</b>	<b>NS613W</b>	<b>NS614W</b>	<b>NS616W</b>	<b>NS621W</b>	<b>NS620W</b>

Note: \*For use with rotary dimmers or to pull through AV or telephone cable.  
 \*\*To fill an extra decorator opening or to create customized openings.

### Molded-In Voice/Low-Speed Data - Modular Snap Fit



Category 6 Jack



Category 5e Jack



USOC Jack

Color	Category 6 Jack		Category 5e Jack		USOC Jack
	(single)	(25 pack)	(single)	(25 pack)	(single)
Black	<b>NSJ6BK</b>	<b>NSJ6BK25</b>	<b>NSJ5EBK</b>	<b>NSJ5EBK25</b>	<b>NSJUBK</b>
Blue	<b>NSJ6B</b>	<b>NSJ6B25</b>	<b>NSJ5EB</b>	<b>NSJ5EB25</b>	<b>NSJUB</b>
Gray	<b>NSJ6GY</b>	<b>NSJ6GY25</b>	<b>NSJ5EGY</b>	<b>NSJ5EGY25</b>	<b>NSJUGY</b>
Green	<b>NSJ6GN</b>	<b>NSJ6GN25</b>	<b>NSJ5EGN</b>	<b>NSJ5EGN25</b>	<b>NSJUGN</b>
Ivory	<b>NSJ6I</b>	<b>NSJ6I25</b>	<b>NSJ5EI</b>	<b>NSJ5EI25</b>	<b>NSJUI</b>
Light Almond	<b>NSJ6LA</b>	<b>NSJ6LA25</b>	<b>NSJ5ELA</b>	<b>NSJ5ELA25</b>	<b>NSJULA</b>
Orange	<b>NSJ6OR</b>	<b>NSJ6OR25</b>	<b>NSJ5EOR</b>	<b>NSJ5EOR25</b>	<b>NSJUOR</b>
Red	<b>NSJ6R</b>	<b>NSJ6R25</b>	<b>NSJ5ER</b>	<b>NSJ5ER25</b>	<b>NSJUR</b>
White	<b>NSJ6W</b>	<b>NSJ6W25</b>	<b>NSJ5EW</b>	<b>NSJ5EW25</b>	<b>NSJUW</b>
Yellow	<b>NSJ6Y</b>	<b>NSJ6Y25</b>	<b>NSJ5EY</b>	<b>NSJ5EY25</b>	<b>NSJUY</b>

### HDMI 1.4 Connectors



HDMI Keystone Feed-Through for IMB and ISFB Series

Color	
Black	<b>SFHC14BK</b>
White	<b>SFHC14W</b>

### Audio/Video Connectors - Standard Bulkhead



Nickel F-Type Coupler Bulkhead, Female to Female



Gold F-Type Coupler Bulkhead, Female to Female



RCA Gold Pass Through, Female to Female, Red Interior



RCA Gold Pass Through, Female to Female, White Interior



RCA Gold Pass Through, Female to Female, Yellow Interior



RCA Gold Pass Through, Female to Female, Blue Interior



RCA Gold Pass Through, Female to Female, Green Interior

Color	Nickel F-Type Coupler Bulkhead, Female to Female	Gold F-Type Coupler Bulkhead, Female to Female	RCA Gold Pass Through, Female to Female, Red Interior	RCA Gold Pass Through, Female to Female, White Interior	RCA Gold Pass Through, Female to Female, Yellow Interior	RCA Gold Pass Through, Female to Female, Blue Interior	RCA Gold Pass Through, Female to Female, Green Interior
Black	<b>NSF70BK</b>	<b>SFFGBK</b>	<b>SFRCRFFBK</b>	<b>SFRCWFFBK</b>	<b>SFRCYFFBK</b>	<b>SFRCBFFBK</b>	<b>SFRCGNFFBK</b>
Gray	<b>NSF70GY</b>	<b>SFFGGY</b>	<b>SFRCRFFGY</b>	<b>SFRCWFFGY</b>	<b>SFRCYFFGY</b>	<b>SFRCBFFGY</b>	<b>SFRCGNFFGY</b>
Ivory	<b>NSF70I</b>	<b>SFFGEI</b>	<b>SFRCRFFEI</b>	<b>SFRCWFFEI</b>	<b>SFRCYFFEI</b>	<b>SFRCBFFEI</b>	<b>SFRCGNFFEI</b>
Light Almond	<b>NSF70LA</b>	<b>SFFGLA</b>	<b>SFRCRFFLA</b>	<b>SFRCWFFLA</b>	<b>SFRCYFFLA</b>	<b>SFRCBFFLA</b>	<b>SFRCGNFFLA</b>
White	<b>NSF70W</b>	<b>SFFGW</b>	<b>SFRCRFFW</b>	<b>SFRCWFFW</b>	<b>SFRCYFFW</b>	<b>SFRCBFFW</b>	<b>SFRCGNFFW</b>

### Audio/Video Connectors - Recessed



Gold F-Type Coupler Bulkhead, Female to Female



RCA Gold Pass Through, Female to Female, Red Interior



RCA Gold Pass Through, Female to Female, White Interior



RCA Gold Pass Through, Female to Female, Yellow Interior



RCA Gold Pass Through, Female to Female, Blue Interior



RCA Gold Pass Through, Female to Female, Green Interior



Blank Insert

Color	Gold F-Type Coupler Bulkhead, Female to Female	RCA Gold Pass Through, Female to Female, Red Interior	RCA Gold Pass Through, Female to Female, White Interior	RCA Gold Pass Through, Female to Female, Yellow Interior	RCA Gold Pass Through, Female to Female, Blue Interior	RCA Gold Pass Through, Female to Female, Green Interior	Blank Insert
Black	<b>SFGRFBK</b>	<b>SFRCRRBK</b>	<b>SFRCWRBK</b>	<b>SFRCYRBK</b>	<b>SFRCBRBK</b>	<b>SFRCGNRBK</b>	<b>SFSBBK10*</b>
Gray	<b>SFGRFGY</b>	<b>SFRCRRGY</b>	<b>SFRCWRGY</b>	<b>SFRCYRGY</b>	<b>SFRCBRGY</b>	<b>SFRCGNRGY</b>	<b>SFSBGY10*</b>
Ivory	<b>SFGRFEI</b>	<b>SFRCRREI</b>	<b>SFRCWREI</b>	<b>SFRCYREI</b>	<b>SFRCBREI</b>	<b>SFRCGNREI</b>	<b>SFSBEI10*</b>
Light Almond	<b>SFGRFLA</b>	<b>SFRCRRLA</b>	<b>SFRCWRLA</b>	<b>SFRCYRLA</b>	<b>SFRCBRLA</b>	<b>SFRCGNRLA</b>	<b>SFSBLA10*</b>
White	<b>SFGRFW</b>	<b>SFRCRRW</b>	<b>SFRCWRW</b>	<b>SFRCYRW</b>	<b>SFRCBRW</b>	<b>SFRCGNRW</b>	<b>SFSBW10*</b>

Note: \*Sold in a package of 10. Order 1 to receive a bag of 10 blanks.

Dimensions in Inches (mm)

## Molded-In Voice/Data/Video

### Features

Designed to complement decorator styling, these jacks offer voice and Cat. 5e devices to fit within a decorator wallplate.

- High impact-resistant thermoplastic frame
- Meets FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

### Molded-In Voice/Low-Speed Data

Description	Decorator Frame, One RJ11 Jack, 6-Position, 4-Conductor	Decorator Frame, One RJ11 Jack, 6-Position, 6-Conductor	Decorator Frame, Duplex RJ11 Jacks, 6-Position, 6-Conductor	Decorator Frame, One Cat. 5e One RJ11 Jack, 6-Position, 4-Conductor
Termination	Screw Terminations	Screw Terminations	Screw Terminations	110 Punch-Down
Color				
Black	<b>NS770BK</b>	—	—	<b>NS784BK</b>
Brown	<b>NS770</b>	<b>NS771</b>	—	<b>NS784</b>
Gray	<b>NS770GY</b>	—	—	<b>NS784GY</b>
Ivory	<b>NS770I</b>	<b>NS771I</b>	<b>NS772I</b>	<b>NS784I</b>
Light Almond	<b>NS770LA</b>	<b>NS771LA</b>	<b>NS772LA</b>	<b>NS784LA</b>
White	<b>NS770W</b>	<b>NS771W</b>	<b>NS772W</b>	<b>NS784W</b>

### Features

Coaxial video and combination jacks complement multimedia needs in a 1-gang decorator opening.

- High impact-resistant thermoplastic frame
- Jacks meet FCC part 68
- UL Listed 1863 - Communication Circuit Accessory and CSA Certified

### Molded-In Voice/Low-Speed Data

Description	Decorator Frame, Single F-Type Coupler Bulkhead, Female to Female	Decorator Frame, Duplex F-Type Coupler Bulkhead, Female to Female	Decorator Frame, One RJ11 Jack, 6-Position, 4-Conductor, One F-Type Coupler Bulkhead, Female to Female	Decorator Frame, One Cat. 5e One F-Type Coupler Bulkhead, Female to Female
Termination	Screw Terminations	Screw Terminations	Screw Terminations	110 Punch-Down
Color				
Black	—	—	—	<b>NS785BK</b>
Brown	—	—	—	<b>NS785</b>
Gray	—	—	—	<b>NS785GY</b>
Ivory	<b>NS780I</b>	<b>NS782I</b>	<b>NS783I</b>	<b>NS785I</b>
Light Almond	<b>NS780LA</b>	<b>NS782LA</b>	<b>NS783LA</b>	<b>NS785LA</b>
White	<b>NS780W</b>	<b>NS782W</b>	<b>NS783W</b>	<b>NS785W</b>

Dimensions in Inches (mm)

## Plastic and Metal Wallplates

### More Style In a Snap

Snap-on wallplates offer a clean, elegant look that can be installed in seconds. Screw the mounting plate onto the device and press the snap-on cover into place. Snaps securely hold the cover to the sub-plate.

- Clean, elegant look
- No visible screws
- Snap-on cover plate completely covers sub-plate eliminating dirt build-up around the edges
- Snap-on cover plate hides any paint or scratches on sub-plate caused during installation
- Appearance is consistent with other Hubbell wallplates
- Meets UL and CSA standards



### Snap-On Wallplates

Color	1-Gang, 1-Decorator	1-Gang, 1-Duplex	1-Gang, 1-Toggle	2-Gang, 2-Decorator	2-Gang, 2-Toggle	3-Gang, 3-Decorator	3-Gang, 3-Toggle	4-Gang, 4-Decorator
Ivory	<b>NPS26I</b>	<b>NPS8I</b>	<b>NPS1I</b>	<b>NPS262I</b>	<b>NPS2I</b>	<b>NPS263I</b>	<b>NPS3I</b>	<b>NPS264I</b>
Light Almond	<b>NPS26LA</b>	<b>NPS8LA</b>	<b>NPS1LA</b>	<b>NPS262LA</b>	<b>NPS2LA</b>	<b>NPS263LA</b>	<b>NPS3LA</b>	<b>NPS264LA</b>
White	<b>NPS26W</b>	<b>NPS8W</b>	<b>NPS1W</b>	<b>NPS262W</b>	<b>NPS2W</b>	<b>NPS263W</b>	<b>NPS3W</b>	<b>NPS264W</b>

### Decorator, Screw-On, Standard, Nylon Wallplates

Color	1-Gang, 1-Decorator	2-Gang, 2-Decorator	3-Gang, 3-Decorator	4-Gang, 4-Decorator	5-Gang, 5-Decorator	6-Gang, 6-Decorator
Black	<b>NP26BK</b>	<b>NP262BK</b>	<b>NP263BK</b>	<b>NP264BK</b>	<b>NP265BK</b>	<b>NP266BK</b>
Brown	<b>NP26</b>	<b>NP262</b>	<b>NP263</b>	<b>NP264</b>	<b>NP265</b>	<b>NP266</b>
Gray	<b>NP26GY</b>	<b>NP262GY</b>	<b>NP263GY</b>	<b>NP264GY</b>	<b>NP265GY</b>	<b>NP266GY</b>
Ivory	<b>NP26I</b>	<b>NP262I</b>	<b>NP263I</b>	<b>NP264I</b>	<b>NP265I</b>	<b>NP266I</b>
Light Almond	<b>NP26LA</b>	<b>NP262LA</b>	<b>NP263LA</b>	<b>NP264LA</b>	<b>NP265LA</b>	<b>NP266LA</b>
White	<b>NP26W</b>	<b>NP262W</b>	<b>NP263W</b>	<b>NP264W</b>	<b>NP265W</b>	<b>NP266W</b>

### Decorator, Screw-On, Mid-Size, Nylon Wallplates

Color	1-Gang, 1-Decorator	2-Gang, 2-Decorator	3-Gang, 3-Decorator	4-Gang, 4-Decorator	5-Gang, 5-Decorator	6-Gang, 6-Decorator
Black	<b>NPJ26BK</b>	<b>NPJ262BK</b>	<b>NPJ263BK</b>	<b>NPJ264BK</b>	—	—
Brown	<b>NPJ26</b>	<b>NPJ262</b>	<b>NPJ263</b>	<b>NPJ264</b>	—	—
Gray	<b>NPJ26GY</b>	<b>NPJ262GY</b>	<b>NPJ263GY</b>	<b>NPJ264GY</b>	—	—
Ivory	<b>NPJ26I</b>	<b>NPJ262I</b>	<b>NPJ263I</b>	<b>NPJ264I</b>	—	—
Light Almond	<b>NPJ26LA</b>	<b>NPJ262LA</b>	<b>NPJ263LA</b>	<b>NPJ264LA</b>	—	—
White	<b>NPJ26W</b>	<b>NPJ262W</b>	<b>NPJ263W</b>	<b>NPJ264W</b>	—	—

### Decorator, Screw-On, Mid-Size, Metal Wallplates

Material	1-Gang, 1-Decorator	2-Gang, 2-Decorator	3-Gang, 3-Decorator	4-Gang, 4-Decorator	5-Gang, 5-Decorator	6-Gang, 6-Decorator
Brass	<b>SB26</b>	<b>SB262</b>	—	—	—	—
Brass Plated	<b>SBP26</b>	<b>SBP262</b>	<b>SBP263</b>	—	—	—
Chrome	<b>SCH26</b>	<b>SCH262</b>	—	—	—	—
S/S 302/304	<b>SS26</b>	<b>SS262</b>	<b>SS263</b>	<b>SS264</b>	<b>SS265</b>	<b>SS266</b>
S/S 430	<b>SS26L</b>	<b>SS262L</b>	—	—	—	—

Note: See section N for complete selection of wallplates.



## Combination Wallplates

### Combination, Nylon, Standard Wallplates

Color	2-Gang, 1-Toggle 1-Decorator	2-Gang, 1-Duplex, 1-Decorator	2-Gang, 1-Blank Box Mount 1-Decorator	3-Gang, 2-Toggle 1-Decorator	3-Gang, 1-Toggle 2-Decorator	4-Gang, 3-Toggle 1-Decorator	4-Gang, 2-Toggle 2-Decorator
Black	<b>NP126BK</b>	<b>NP826BK</b>	<b>NP1326BK</b>	<b>NP226BK</b>	<b>NP1262BK</b>	<b>NP326BK</b>	<b>NP2262BK</b>
Brown	<b>NP126</b>	<b>NP826</b>	<b>NP1326</b>	<b>NP226</b>	<b>NP1262</b>	<b>NP326</b>	<b>NP2262</b>
Gray	<b>NP126GY</b>	<b>NP826GY</b>	<b>NP1326GY</b>	<b>NP226GY</b>	<b>NP1262GY</b>	<b>NP326GY</b>	<b>NP2262GY</b>
Ivory	<b>NP126I</b>	<b>NP826I</b>	<b>NP1326I</b>	<b>NP226I</b>	<b>NP1262I</b>	<b>NP326I</b>	<b>NP2262I</b>
Light Almond	<b>NP126LA</b>	<b>NP826LA</b>	<b>NP1326LA</b>	<b>NP226LA</b>	<b>NP1262LA</b>	<b>NP326LA</b>	<b>NP2262LA</b>
White	<b>NP126W</b>	<b>NP826W</b>	<b>NP1326W</b>	<b>NP226W</b>	<b>NP1262W</b>	<b>NP326W</b>	<b>NP2262W</b>

### Combination, Nylon, Mid-Size Wallplates

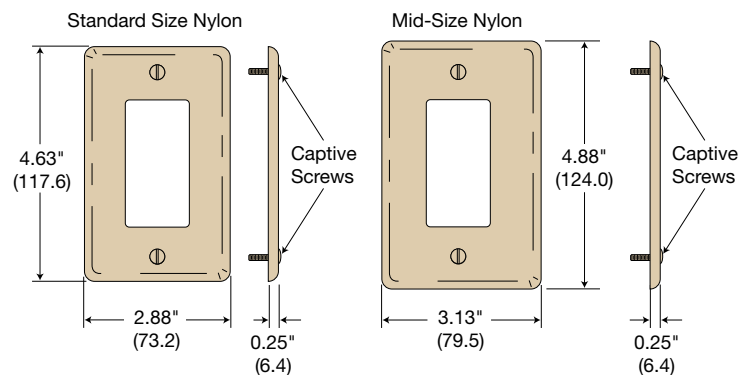
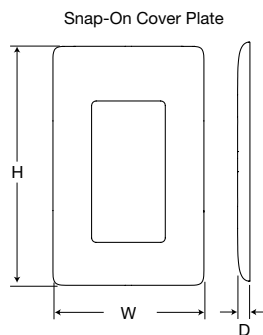
Color	2-Gang, 1-Toggle 1-Decorator	2-Gang, 1-Duplex, 1-Decorator	2-Gang, 1-Blank Box Mount 1-Decorator	3-Gang, 2-Toggle 1-Decorator	3-Gang, 1-Toggle 2-Decorator	4-Gang, 3-Toggle 1-Decorator	4-Gang, 2-Toggle 2-Decorator
Black	<b>NPJ126BK</b>	<b>NPJ826BK</b>	—	<b>NPJ226BK</b>	—	—	—
Brown	<b>NPJ126</b>	<b>NPJ826</b>	<b>NPJ1326</b>	<b>NPJ226</b>	—	—	—
Gray	<b>NPJ126GY</b>	<b>NPJ826GY</b>	—	<b>NPJ226GY</b>	—	—	—
Ivory	<b>NPJ126I</b>	<b>NPJ826I</b>	<b>NPJ1326I</b>	<b>NPJ226I</b>	—	—	—
Light Almond	<b>NPJ126LA</b>	<b>NPJ826LA</b>	<b>NPJ1326LA</b>	<b>NPJ226LA</b>	—	—	—
White	<b>NPJ126W</b>	<b>NPJ826W</b>	<b>NPJ1326W</b>	<b>NPJ226W</b>	—	—	—

### Combination, Standard, Metal Wallplates

Material	2-Gang, 1-Toggle 1-Decorator	2-Gang, 1-Duplex, 1-Decorator	2-Gang, 1-Blank Strap Mount 1-Decorator	3-Gang, 2-Toggle 1-Decorator	3-Gang, 1-Toggle 2-Decorator	4-Gang, 3-Toggle 1-Decorator	4-Gang, 2-Toggle 2-Decorator
Brass	<b>SB126</b>	<b>SB826</b>	—	—	—	—	—
Brass Plated	<b>SBP126</b>	—	—	—	—	—	—
Chrome	—	—	—	—	—	—	—
SS 302/304	<b>SS126</b>	<b>SS826</b>	<b>SS1426</b>	<b>SS226</b>	—	<b>SS326</b>	—
SS 430	<b>SS126L</b>	—	—	—	—	—	—

Note: See section N for complete selection of wallplates.

## Dimensions



Gang	Height (H)	Width (W)	Depth (D)
1	4.75" (120.6)	3.00" (76.2)	.25" (6.2)
2	4.75" (120.6)	4.81" (122.2)	.25" (6.2)
3	4.75" (120.6)	6.62" (168.2)	.25" (6.2)
4	4.75" (120.6)	8.44" (214.3)	.25" (6.2)

Dimensions in Inches (mm)

## Toggle Switches

### Features




Standard toggle switches provide the basic ON/OFF control for home lighting and appliances.

- Tough thermoplastic with ultrasonically welded cover and base
- Elongated strap for easier wall box mounting
- Quiet snap action mechanism
- Multiple-drive Slot/Phillips/Robertson head screws
- Hi-visibility yellow base for easy installation
- Operating temperature: -20°C to 60°C
- UL Listed, CSA Certified



RS115W

### Single Pole Toggle Switches

Description	Single Pole	Single Pole	Single Pole, Illuminated
Termination	Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire
Rating	15A 120V AC	15A 120V AC	15A 120V AC
			
Color			
Clear	—	—	RS115ILC
Black	RS115BK	—	—
Brown	RS115	RS115S	—
Ivory	RS115I	RS115SI	RS115ILI*
Light Almond	RS115LA	RS115SLA	RS115ILLA*
White	RS115W	RS115SW	RS115ILW*

Note: \*Frame is clear and illuminates, toggle is colored. Does not require a neutral wire.

### Three and Four Way Toggle Switches

Description	Three Way	Three Way	Three Way, Illuminated	Four Way
Termination	Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire	Self-Grounding, Side Wire
Rating	15A 120V AC	15A 120V AC	15A 120V AC	15A 120V AC
				
Color				
Clear	—	—	RS315ILC	—
Black	RS315BK	—	—	—
Brown	RS315	RS315S	—	RS415
Ivory	RS315I	RS315SI	RS315ILI*	RS415I
Light Almond	RS315LA	RS315SLA	RS315ILLA*	RS415LA
White	RS315W	RS315SW	RS315ILW*	RS415W

Note: \*Frame is clear and illuminates, toggle is colored. Does not require a neutral wire.

Dimensions in Inches (mm)

## Combination Switches/Devices

### Features

Mini-toggles provide for multiple switches in a compact single gang. Maximize control while maintaining function and appearance.

- Low profile, less than 1 inch
- Self-grounding feature is standard
- Combination devices provide compact switches in a single-gang opening
- Smooth toggle action
- Multiple-drive Slot/Phillips/Robertson head screws
- Hi-visibility yellow base for easy installation
- Operating temperature: -20°C to 60°C
- UL Listed, CSA Certified



RC108I

### Combination Toggle Switches/Devices

Description	Two (2) Single Pole Switches	Single Pole Switch, Tamper-Resistant, 2 Pole, 3 Wire, Receptacle	Single Pole Switch, 2 Pole, 3 Wire, Receptacle	Single Pole Switch, Pilot Light, Clear Lens, Amber Neon Bulb*
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 120V AC	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R	15A 120V AC
Color	 Brown <b>RC101</b> Ivory <b>RC101I</b> Light Almond <b>RC101LA</b> White <b>RC101W</b>	 Brown <b>RC108TR</b> Ivory <b>RC108ITR</b> Light Almond <b>RC108LATR</b> White <b>RC108WTR</b>	 Brown <b>RC108</b> Ivory <b>RC108I</b> Light Almond <b>RC108LA</b> White <b>RC108W</b>	 Brown <b>RC109</b> Ivory <b>RC109I</b> Light Almond <b>RC109LA</b> White <b>RC109W</b>

Note: See page Tech-10 for Tamper-Resistant description.  
\*Neutral required for pilot light, see page X-4 for wiring diagram.

### Combination Toggle Switches/Devices

Description	Single Pole and Three Way Switch	Two (2) Three Way Switches	Three Way Switch, Tamper-Resistant, 2 Pole, 3 Wire, Receptacle	Three Way Switch, 2 Pole, 3 Wire, Receptacle	Three Way Switch, Pilot Light, Clear Lens, Amber Neon Bulb*
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 120V AC	15A 120V AC	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R	15A 120V (switch) 15A 125V (recept.) NEMA 5-15R	15A 120V AC
Color	 Brown <b>RC103</b> Ivory <b>RC103I</b> Light Almond <b>RC103LA</b> White <b>RC103W</b>	 Brown <b>RC303</b> Ivory <b>RC303I</b> Light Almond <b>RC303LA</b> White <b>RC303W</b>	 Brown <b>RC308TR</b> Ivory <b>RC308ITR</b> Light Almond <b>RC308LATR</b> White <b>RC308WTR</b>	 Brown <b>RC308</b> Ivory <b>RC308I</b> Light Almond <b>RC308LA</b> White <b>RC308W</b>	 Brown <b>RC309</b> Ivory <b>RC309I</b> Light Almond <b>RC309LA</b> White <b>RC309W</b>

Note: See page Tech-10 for Tamper-Resistant description.  
\*Neutral required for pilot light, see page X-4 for wiring diagram.

Dimensions in Inches (mm)

X-Clamp and Duplex Receptacles

20 Amp 12 Gauge Made Easy

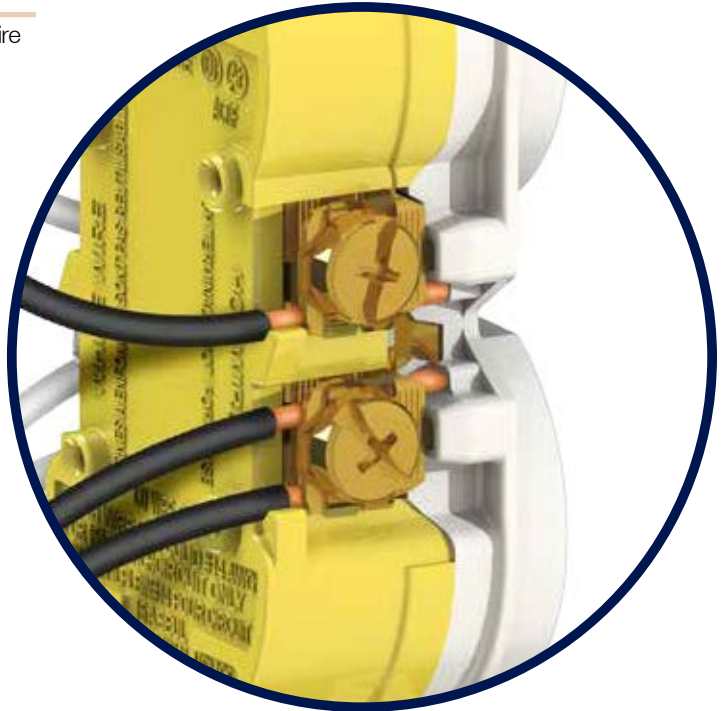
Features

- Quick and easy 3-step installation eliminates the need to loop the wire
- Provides an external back-wire clamp for fast, easy and secure installation of 20A circuits in residential applications
- Helpful compression plates maximize holding power to provide stronger, more secure, connections for #12 AWG wiring
- Break-off tabs for switched receptacle applications
- Innovative termination of up to 8 wires for downstream circuits
- Tamper-resistant shutter complies with NEC®



Wiring 20A circuits is now as easy as:

- 1 strip the wire
- 2 insert the wire
- 3 terminate the connection



X-Clamp Receptacles

Description	Color	Catalog Number
Tamper-Resistant, 15A, 125V Duplex	Ivory Light Almond White	<b>RR15SITRXZ</b> <b>RR15SLATRXZ</b> <b>RR15SWTRXZ</b>

Listings

UL listed to UL498 File No. E2186  
 Certified to CSA C22.2, No. 42  
 NEMA® WD-6 Compliant

Duplex Receptacles, 2 Pole, 3 Wire



Description	Tamper-Resistant, Quick Thread	Standard	Weather and Tamper-Resistant	Tamper-Resistant	Standard
	Termination	Self-Grounding, Push and Side Wire	Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire	Self-Grounding, Push and Side Wire
Rating	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R
Black	<b>RR15QBKTR</b>	<b>RR15BK</b>	<b>RR15SBKWRTR</b>	<b>RR15SBKTR</b>	<b>RR15SBK</b>
Brown	<b>RR15QTR</b>	<b>RR15</b>	<b>RR15SWRTR</b>	<b>RR15STR</b>	<b>RR15S</b>
Gray	—	—	<b>RR15SGYWRTR</b>	—	—
Ivory	<b>RR15QITR</b>	<b>RR15I</b>	<b>RR15SIWRTR</b>	<b>RR15SITR</b>	<b>RR15SI</b>
Light Almond	<b>RR15QLATR</b>	<b>RR15LA</b>	<b>RR15SLWRTR</b>	<b>RR15SLATR</b>	<b>RR15SLA</b>
White	<b>RR15QWTR</b>	<b>RR15W</b>	<b>RR15SWWRTR</b>	<b>RR15SWTR</b>	<b>RR15SW</b>
Description	Tamper-Resistant, Quick Thread	Tamper-Resistant,	Tamper-Resistant, Without Ears*	Standard, Without Ears*	
Termination	Eight Push Wire Holes Only #14 AWG	Eight Push Wire Holes Only #14 AWG	Eight Push Wire Holes Only #14 AWG	Eight Push Wire Holes Only #14 AWG	
Rating	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	
Black	<b>RR15EQBKTR</b>	<b>RR15EBKTR</b>	—	—	
Brown	<b>RR15EQTR</b>	<b>RR15ETR</b>	<b>RR15KTR</b>	<b>RR15K</b>	
Gray	—	<b>RR15EGYTR</b>	—	—	
Ivory	<b>RR15EQITR</b>	<b>RR15EITR</b>	<b>RR15KITR</b>	<b>RR15KI</b>	
Light Almond	<b>RR15EQLATR</b>	<b>RR15ELATR</b>	<b>RR15KLATR</b>	—	
White	<b>RR15EQWTR</b>	<b>RR15EWTR</b>	<b>RR15KWTR</b>	<b>RR15KW</b>	

Note: See page Tech-10 for Weather and Tamper-Resistant descriptions.  
 \*100 per case, bulk packed. Mounting screws inserted into strap.

## Singles, Range and Dryer Power Receptacles and Plugs

### Single Receptacles, 2 Pole, 3 Wire

	Weather and Tamper-Resistant	Tamper-Resistant	Standard	Weather Resistant	Standard
Description	Weather and Tamper-Resistant	Tamper-Resistant	Standard	Weather Resistant	Standard
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 125V NEMA 5-15R	15A 250V NEMA 6-15R	15A 250V NEMA 6-15R
Black	<b>RR151BKWRTR</b>	<b>RR151BKTR</b>	<b>RR151BK</b>	<b>RR155BKWR</b>	<b>RR155BK</b>
Brown	<b>RR151WRTR</b>	<b>RR151TR</b>	<b>RR151</b>	<b>RR155WR</b>	<b>RR155</b>
Gray	<b>RR151GYWRTR</b>	<b>RR151GYTR</b>	<b>RR151GY</b>	<b>RR155GYWR</b>	<b>RR155GY</b>
Ivory	<b>RR151IWRTR</b>	<b>RR151ITR</b>	<b>RR151I</b>	<b>RR155IWR</b>	<b>RR155I</b>
Light Almond	<b>RR151LAWRTR</b>	<b>RR151LATR</b>	<b>RR151LA</b>	<b>RR155LAWR</b>	<b>RR155LA</b>
White	<b>RR151WWRTR</b>	<b>RR151WTR</b>	<b>RR151W</b>	<b>RR155WWR</b>	<b>RR155W</b>



	Weather and Tamper-Resistant	Tamper-Resistant	Standard	Weather Resistant	Standard
Description	Weather and Tamper-Resistant	Tamper-Resistant	Standard	Weather Resistant	Standard
Termination	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire	Self-Grounding, Side Wire
Rating	20A 125V NEMA 5-20R	20A 125V NEMA 5-20R	20A 125V NEMA 5-20R	20A 250V NEMA 6-20R	20A 250V NEMA 6-20R
Black	<b>RR201BKWRTR</b>	<b>RR201BKTR</b>	<b>RR201BK</b>	<b>RR205BKWR</b>	<b>RR205BK</b>
Brown	<b>RR201WRTR</b>	<b>RR201TR</b>	<b>RR201</b>	<b>RR205WR</b>	<b>RR205</b>
Gray	<b>RR201GYWRTR</b>	<b>RR201GYTR</b>	<b>RR201GY</b>	<b>RR205GYWR</b>	<b>RR205GY</b>
Ivory	<b>RR201IWRTR</b>	<b>RR201ITR</b>	<b>RR201I</b>	<b>RR205IWR</b>	<b>RR205I</b>
Light Almond	<b>RR201LAWRTR</b>	<b>RR201LATR</b>	<b>RR201LA</b>	<b>RR205LAWR</b>	<b>RR205LA</b>
White	<b>RR201WWRTR</b>	<b>RR201WTR</b>	<b>RR201W</b>	<b>RR205WWR</b>	<b>RR205W</b>



Note: See page Tech-10 for Weather and Tamper-Resistant descriptions.

### Range and Dryer Power Receptacles

	30A 125/250V NEMA 14-30R UL/CSA	50A 125/250V NEMA 14-50R UL/CSA	30A 125/250V NEMA 10-30R UL/CSA	50A 125/250V NEMA 10-50R UL/CSA
Description	Flush Mount for 1- or 2-Gang Box	Flush Mount for 1- or 2-Gang Box	Flush Mount for 1- or 2-Gang Box	Flush Mount for 1- or 2-Gang Box
Rating	30A 125/250V 3 Pole, 4 Wire with Ground	50A 125/250V 3 Pole, 4 Wire with Ground	30A 125/250V 3 Pole, 3 Wire without Ground	50A 125/250V 3 Pole, 3 Wire without Ground
Black	<b>RR430F</b>	<b>RR450F</b>	<b>RR330F*</b>	<b>RR350F*</b>
White	<b>RR430FW</b>	<b>RR450FW</b>	—	—
Description	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Rating	30A 125/250V 3 Pole, 4 Wire with Ground	50A 125/250V 3 Pole, 4 Wire with Ground	30A 125/250V 3 Pole, 3 Wire without Ground	50A 125/250V 3 Pole, 3 Wire without Ground
Black	<b>RR430</b>	<b>RR450</b>	<b>RR330*</b>	<b>RR350*</b>
Description	Panel Mount	Panel Mount	Panel Mount	Panel Mount
Rating	30A 125/250V 3 Pole, 4 Wire with Ground	50A 125/250V 3 Pole, 4 Wire with Ground	—	—
Black	<b>RR430PM</b>	<b>RR450PM</b>	—	—



Note: \*For replacement use only.

### Range and Dryer Power Angled Plugs

	30A 125/250V NEMA 14-30R UL/CSA	50A 125/250V NEMA 14-50R UL/CSA	30A 125/250V NEMA 10-30R UL/CSA	50A 125/250V NEMA 10-50R UL/CSA
Description	With Interchangeable Blades for 30 or 50 Amp		With Interchangeable Blades for 30 or 50 Amp	
Rating	30/50A 125/250V 3 Pole, 4 Wire with Ground		30/50A 125/250V 3 Pole, 3 Wire without Ground	
Black	<b>RR435P</b>		<b>RR335P</b>	





## Special Use Products



### Special Use Products



Description	Color	Tamper-Resistant	Tamper-Resistant
Clock Hanger/Recessed Single Receptacle, Tamper-Resistant, 2 pole, 3 wire, grounding, side wire terminations	Brass	<b>RR151CHBSTR</b>	<b>RR201CHBSTR</b>
	Stainless Steel	<b>RR151CHSSTR</b>	<b>RR201CHSSTR</b>
	Ivory (Nylon)	<b>RR151CHITR</b>	<b>RR201CHITR</b>
	White (Nylon)	<b>RR151CHWTR</b>	<b>RR201CHWTR</b>
Recessed Duplex Receptacle, Tamper-Resistant, 2 pole, 3 wire, grounding, side wire terminations	Ivory	<b>RR151OI</b>	—
	Light Almond	<b>RR151OLA</b>	—
	White	<b>RR151OW</b>	—
JLOAD® Multimedia Outlet, Provides power, Cat. 5e and coaxial in a single gang box. Requires RJ600 Box. Includes decorator frame, one Cat. 5e, one F-connector and one power receptacle 125V with voltage dividers*.	Black	<b>RJ650BKTR</b>	<b>RJ620BKTR</b>
	Gray	<b>RJ650GYTR</b>	<b>RJ620GYTR</b>
	Ivory	<b>RJ650ITR</b>	<b>RJ620ITR</b>
	Light Almond	<b>RJ650LATR</b>	<b>RJ620LATR</b>
	White	<b>RJ650WTR</b>	<b>RJ620WTR</b>
JLOAD® Multimedia Outlet, Includes decorator frame with two open ports for custom configuration and one power receptacle 125V with voltage dividers*.	Black	<b>RJ65BKTR</b>	<b>RJ62BKTR</b>
	Gray	<b>RJ65GYTR</b>	<b>RJ62GYTR</b>
	Ivory	<b>RJ65ITR</b>	<b>RJ62ITR</b>
	Light Almond	<b>RJ65LATR</b>	<b>RJ62LATR</b>
	White	<b>RJ65WTR</b>	<b>RJ62WTR</b>
JLOAD® Multimedia Box, 3 inches deep with seven 1/2-inch knockouts, non-metallic sheathed cable clamps on each side. Screw in mounting to stud.	Steel	<b>RJ600</b>	<b>RJ600</b>

Note: \*Dividers provided for use with the RJ600, RF515 series and RU200 series boxes. RF408 required for use with the RF400 series floor boxes. See page X-10 for snap fit inserts. See pages X-21 to X-26 for floor boxes and under cabinet power distribution options. See page Tech-10 for Tamper-Resistant description.



RR1510W



RJ650BK



Dividers



RJ600



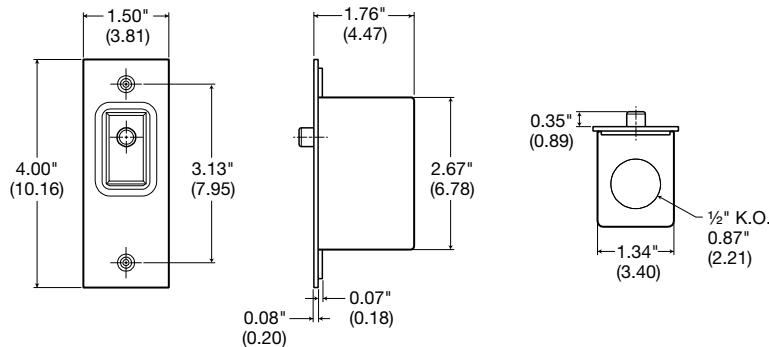
RDS50

### Door Switch with Cover Plate and Box

Description	"ON" when Door is Open	"OFF" when Door is Open
Rating	3A 125V AC	3A 125V AC
Zinc Plated Steel	<b>RDS50*</b>	<b>RDS30*</b>

Note: \*Not UL Listed.

### Dimensions



### In-Line Cord Switches

Description	Mini For Use with Flat Lamp Cord	Heavy Duty
Rating	6A 125V AC	6A 125V AC, 1/6 HP
Wire	#18 AWG SPT 1 and SPT 2	#18 to #16 AWG SPT 1 and SPT 2
Ivory	—	<b>RS101I</b>
White	<b>RS100W</b>	<b>RS101W</b>



RS100W



RS101W

Dimensions in Inches (mm)

## Dimmers and Fan Speed Controls

### Features

Standard toggle switches provide the basic ON/OFF control for home lighting and appliances.

- Optimum CFL and LED Control
- Low End Adjustment for Fine Tuning
- Decorator and Traditional Toggle Styling Available
- No Neutral Required

### CFL/LED Dimmers

Description	Decorator Dimmer	Toggle Dimmer
Rating	CFL/LED 150W Incandescent/ Halogen 600W 120V AC, 60Hz	CFL/LED 150W Incandescent/ Halogen 600W 120V AC, 60Hz
Termination	Single Pole/Three Way	Single Pole/Three Way
Ivory	<b>RDVCL153PI</b>	<b>RAYCL153PI</b>
Light Almond	<b>RDVCL153PLA</b>	<b>RAYCL153PLA</b>
White	<b>RDVCL153PW</b>	<b>RAYCL153PW</b>

### Toggle Incandescent Preset Dimmers

Description	Side Slide Adjustment with Wire Leads	Side Slide Adjustment with Wire Leads	Side Slide Adjustment with Terminal Screws	Side Slide Adjustment with Terminal Screws
Termination	Single Pole	Three Way	Single Pole	Three Way
Rating	1000W 120V AC	1000W 120V AC	600W 120V AC	600W 120V AC
Ivory	<b>RAY10PI</b>	<b>RAY103PI</b>	<b>RAY600PI</b>	<b>RAY603PI</b>
Light Almond	<b>RAY10PLA</b>	<b>RAY103PLA</b>	<b>RAY600PLA</b>	<b>RAY603PLA</b>
White	<b>RAY10PW</b>	<b>RAY103PW</b>	<b>RAY600PW</b>	<b>RAY603PW</b>



RDVCL153PW

### Rotary Incandescent Dimmers

Description	On/Off Dimmer	Push ON/OFF Dimmer Ivory and White Knobs Provided	Push ON/OFF Dimmer Ivory and White Knobs Provided
Termination	Single Pole	Single Pole	Three Way
Rating	600W 120V AC	600W 120V AC	600W 120V AC
Ivory	<b>RD600RI</b>	—	—
White	<b>RD600RW</b>	—	—
Ivory/White	—	<b>RD600PDK</b>	<b>RD603PDK</b>

### Replacement Knobs

2 Piece Kit Replacement Knobs
—
—
—
<b>RRKDK</b>



RAY600PW

### Fan Speed Controls

Description	Toggle 3-Speed	Combination Toggle 3-Speed/Dimmer	Rotary ON/OFF 3-Speed Knobs Provided	Rotary Variable Speed
Termination	Single Pole or Three Way	Single Pole	Single Pole	Single Pole
Rating	1.5A 120V AC	300W 1.5A 120V AC	1.5A 120V AC	5A 120V AC
Ivory	<b>RAYFSQFI</b>	<b>RAY2LFSQI</b>	—	<b>RFS5I</b>
Light Almond	<b>RAYFSQFLA</b>	<b>RAY2LFSQLA</b>	—	<b>RFS5LA</b>
White	<b>RAYFSQFW</b>	<b>RAY2LFSQW</b>	—	<b>RFS5W</b>
Ivory/White	—	—	<b>RFSQ2FDK</b>	—

### Replacement Knobs

Rotary Fan Control Replacement Knobs
—
—
<b>R28032406</b>
—
<b>R28032401</b>
—



RFSQ2FDK

### Slide Dimmers, Slide to OFF

Description	Incandescent Slide to OFF	Incandescent Omni Slide Button
Termination	Single Pole	Single Pole/Three Way
Rating	600W 120V AC	600W 120V AC
Ivory	<b>RS600I</b>	<b>RS613PI</b>
Light Almond	<b>RS600LA</b>	<b>RS613PLA</b>
White	<b>RS600W</b>	<b>RS613PW</b>



R28032401

R28032406



RS613PW

### Fan Speed Controls, 3 Speed

Description	Rocker Slide Adjustment	Slide Control Slide to OFF	Combination Slide Dimmer, Incandescent
Termination	Single Pole/Three Way	Single Pole	Single Pole
Rating	1.5A 120V AC	1.5A 120V AC	300W 1.5A 120V AC
Ivory	<b>RDVFSQFI</b>	<b>RSFSQFI</b>	<b>RS2LFSQI</b>
Light Almond	<b>RDVFSQFLA</b>	<b>RSFSQFLA</b>	<b>RS2LFSQLA</b>
White	<b>RDVFSQFW</b>	<b>RSFSQFW</b>	<b>RS2LFSQW</b>

### Replacement Knobs

Slide Control Replacement Knobs
—
—
<b>RSKI</b>
<b>RSKLA</b>
<b>RSKW</b>



RS2LFSQW

## Wall Switches and Digital Timer



WS2000W



WS1000NW



WS1020W



DT5030W



DT2000W

### Passive Infrared Wall Switches

- Passive infrared technology
- Photozell (WS2000 series)
- No neutral required
- 1200 sq. ft. coverage
- Steel mounting strap
- Compatible with most LED and CFL
- CEC Title 24 and ASHRAE 90.1 compliant
- cULus

Description	Color	Standard	with Nightlight	with Neutral	with Nightlight and Neutral
Manual adjusting; selectable manual/auto-ON operation; dual-voltage 120/277V AC; 3-way capable.	Gray	<b>WS2000GY</b>	<b>WS2000NGY</b>	—	—
	Ivory	<b>WS2000I</b>	<b>WS2000NI</b>	<b>WS2004I</b>	<b>WS2004NI</b>
	Light Almond	<b>WS2000LA</b>	<b>WS2000NLA</b>	—	—
	White	<b>WS2000W</b>	<b>WS2000NW</b>	<b>WS2004W</b>	<b>WS2004NW</b>
Manual adjusting; auto-ON operation; 120V AC only.	Ivory	<b>WS1000I</b>	<b>WS1000NI</b>	—	—
	Light Almond	<b>WS1000LA</b>	—	—	—
	White	<b>WS1000W</b>	<b>WS1000NW</b>	—	—
Manual adjusting; Manual-ON operation; 120V AC only.	Ivory	<b>WS1001I</b>	<b>WS1001NI</b>	—	—
	White	<b>WS1001W</b>	<b>WS1001NW</b>	—	—

Note: See below for coverage patterns.

### Two-Circuit, Independent Settings

Description	Color	Standard	with Neutral
Manual adjustments; Auto-ON operation; 120V AC.	Gray	<b>WS1020GY</b>	<b>WS1024GY</b>
	Ivory	<b>WS1020I</b>	<b>WS1024I</b>
	Light Almond	<b>WS1020LA</b>	<b>WS1024LA</b>
	White	<b>WS1020W</b>	<b>WS1024W</b>
Manual adjustments; Manual-ON operation; 120V AC.	Gray	<b>WS1021GY</b>	<b>WS1025GY</b>
	Ivory	<b>WS1021I</b>	<b>WS1025I</b>
	Light Almond	<b>WS1021LA</b>	<b>WS1025LA</b>
	White	<b>WS1021W</b>	<b>WS1025W</b>

### Count Down Timer Wall Switch

Description	Color	30 Minutes: OFF, 5, 10, 20, 30	60 Minutes: OFF, 15, 30, 45, 60	12 Hours: OFF, 2, 4, 8, 12
1000W @ 120V AC and 1400W @ 277V AC.	Ivory	<b>DT5030I</b>	<b>DT5060I</b>	<b>DT5012I</b>
	Light Almond	<b>DT5030LA</b>	<b>DT5060LA</b>	<b>DT5012LA</b>
	White	<b>DT5030W</b>	<b>DT5060W</b>	<b>DT5012W</b>

Note: Neutral required.

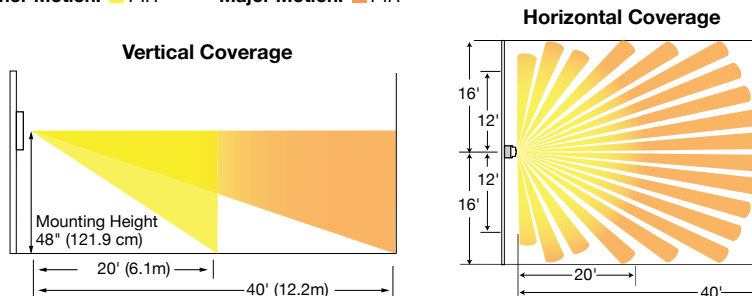
### Digital Timer Wall Switch

Description	Color	120V AC	277V AC	Catalog Number
Dip switch enabled preset intervals. User adjustable 1 min up to 4 hours, 3-way capable. Includes an ON/OFF momentary push button switch feature.	White	960W	1200W	<b>DT2000W</b>

Note: Neutral required.

### Wall Switches Coverage Patterns

Minor Motion: ■ PIR      Major Motion: ■ PIR



WS1000, WS2000 SERIES

## Floor Boxes for Concrete Floors

Residential Round Non-Metallic Floor Box offers an economical solution for electrical power or a combination of power and voice/data applications. Designed specifically for slab-on-grade installation. Quick and easy installation is assured using a push in place leveling system. UL Listed.

### Features

After the box has been secured in concrete, cut for height, apply PVC glue and push the cover assembly into the box. No fasteners or adjustment screws required.

- 4 inch minimum concrete pour
- Removable neoprene gaskets allow for independent use of either side of the receptacle with the cover closed
- Recessed GFCI/decorator opening
- Self height and leveling ring, no adjustments
- Pre-assembled flange, cover and leveling ring for quick installation
- Parallel PVC hubs for 1 inch and ¾ inch conduit
- TR receptacle included
- UL listed floor box



**RF406BK**  
with RF400

## Floor Boxes for Concrete Floors

Description	Rating	Material/Color	Catalog Number
Flange and Hinged Door Cover Assembly. Includes duplex TR receptacle, gasket, floor leveling PVC ring, high impact and chemically resistant nylon. Factory pre-assembled for easy drop-in installation.	15A 125V NEMA 5-15R	Brushed Aluminum Brushed Brass Plated Solid Brass Almond Black Chestnut Brown Gray	<b>RF406ALU</b> <b>RF406BP</b> <b>RF406BR</b> <b>RF406AL</b> <b>RF406BK</b> <b>RF406BN</b> <b>RF406GY</b>
Flush fit cover for hardwood and tile floors (similar to above).		Solid Brass	<b>RF409BR</b>
PVC Floor Box with Concrete Protective Cover. Accepts ¾ in. and 1.0 in. schedule 40 and schedule 80 PVC conduit. Includes round box (47/8 in. diameter x 6.0 in. deep), four reducers, closure plugs, and concrete cover with locator flag.		Gray	<b>RF400</b>
Hinged Nylon Replacement Door Cover. Includes neoprene gasket to seal plug openings. Replacement cover for RF406 series.		Solid Brass Almond Black	<b>RF407BR</b> <b>RF407AL</b> <b>RF407BK</b>
Low Voltage Divider. For use in PVC box RF400, when JLOAD® Multimedia Outlet is used.		Gray	<b>RF408</b>



**RF406ALU**



**RF409BR**



**RF408**

## Adjustable Non-Metallic Concrete Floor Box Stand

Description	Color	Catalog Number
PVC floor box stand, adjusts up to 4 inches.	White	<b>PFBSTAND</b>



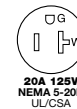
**PFBSTAND**



**RJ650BK**



## JLOAD® Multimedia Outlet



Description	Color	Tamper-Resistant	Tamper-Resistant
JLOAD® Multimedia Outlet. Specifically designed to provide power, Cat. 5e and coaxial in a single gang box. Requires Low Voltage Divider RF408 when used in PVC Box RF400. Includes decorator frame, one Cat. 5e, one F-connector and one power receptacle 125V with voltage dividers*.	Black Gray Ivory Light Almond White	<b>RJ650BKTR</b> <b>RJ650GYTR</b> <b>RJ650ITR</b> <b>RJ650LATR</b> <b>RJ650WTR</b>	<b>RJ620BKTR</b> <b>RJ620GYTR</b> <b>RJ620ITR</b> <b>RJ620LATR</b> <b>RJ620WTR</b>
JLOAD® Multimedia Outlet Includes decorator frame with two open ports for custom configuration and one power receptacle 125V with voltage dividers*.	Black Gray Ivory Light Almond White	<b>RJ65BKTR</b> <b>RJ65GYTR</b> <b>RJ65ITR</b> <b>RJ65LATR</b> <b>RJ65WTR</b>	<b>RJ62BKTR</b> <b>RJ62GYTR</b> <b>RJ62ITR</b> <b>RJ62LATR</b> <b>RJ62WTR</b>

Note: \*Dividers provided for use with the RJ600, RF515 series and RU200 series boxes. RF408 required for use with the RF400 series floor boxes. See page X-10 for snap fit inserts. See pages X-21 to X-26 for floor boxes and under cabinet power distribution options. See page Tech-10 for Tamper-Resistant description.

## Floor Boxes for Wood Floors

Hubbell Wood Floor Boxes allow for the placement of electrical power or a combination of power and voice/data devices. Specifically designed for use with structural wood floors. The boxes are height adjustable (up to ¾ inch) for optimal alignment and fit.

### Features

- Available surface mount or flush fit
- Pre-assembled flange and cover for fast installation
- Removable neoprene gaskets allow for independent use of either side of the receptacle with the cover closed
- Low voltage divider optional provides for power and voice/data in a compact space
- Height accessible adjustments after the box is mounted
- Back and side knockouts for proper wiring access
- Recessed receptacle minimizes plug protrusion; allowing furniture to be located over the plug
- Top screw fastening and side joist mounting provided



**RF509BR, RJ650BK,  
RF500 with Divider**

Note: Template cutout provided with instructions for proper installation.

### The Right Choice for that Perfect Finishing Touch!



Solid Brass    Brass Plated    Chrome Plated    Copper Plated    Nickel Plated    Stainless Finish    Almond    Black    Chestnut Brown

Note: Not all configurations are available in all colors. See below for details.



**RF515BR**



**RF509BR**



**RF500**



**RF507BR**

### Floor Boxes for Structural Wood Floors

Description	Material	Finish	Catalog No.	Material	Finish	Catalog No.
Decorator duplex receptacle floor box kit; includes steel box, flange and hinged door cover assembly with 15A 125V tamper-resistant duplex receptacle; designed for installation in wood floors; mounts to sub-floor or joists.	Solid Brass	Clear Lacquer	<b>RF515BR</b>	Aluminum	Brass Plated	<b>RF515BP</b>
	Aluminum	Stainless Paint	<b>RF515SS</b>	Aluminum	Chrome Plated	<b>RF515CH</b>
	Aluminum	Almond Paint	<b>RF515AL</b>	Aluminum	Copper Plated	<b>RF515CU</b>
	Aluminum	Black Paint	<b>RF515BK</b>	Aluminum	Nickel Plated	<b>RF515NI</b>
	Aluminum	Chestnut Brown Paint	<b>RF515BN</b>			
Flange and hinged door cover assembly; includes tamper-resistant duplex receptacle; neoprene gaskets; for use with steel box RF500.	Solid Brass	Clear Lacquer	<b>RF506BR</b>	Aluminum	Brass Plated	<b>RF506BP</b>
	Aluminum	Stainless Paint	<b>RF506SS</b>	Aluminum	Chrome Plated	<b>RF506CH</b>
	Aluminum	Almond Paint	<b>RF506AL</b>	Aluminum	Copper Plated	<b>RF506CU</b>
	Aluminum	Black Paint	<b>RF506BK</b>	Aluminum	Nickel Plated	<b>RF506NI</b>
	Aluminum	Chestnut Brown Paint	<b>RF506BN</b>			
Flush fit cover for hardwood and tile floors (similar to above).	Solid Brass	Clear Lacquer	<b>RF509BR</b>			
Adjustable floor box; 3 inch deep; three (3) ½ inch knockouts: one on bottom; one on each side; non-metallic sheathed cable clamps on each side.				Steel	—	<b>RF500</b>
Hinged Door Cover Only Replacement door for RF515, RF509 and RF506 series.	Solid Brass	Solid Brass	<b>RF507BR</b>	Aluminum	Brass Plated	<b>RF507BP</b>
	Aluminum	Stainless Finish	<b>RF507SS</b>	Aluminum	Chrome Plated	<b>RF507CH</b>
	Aluminum	Almond	<b>RF507AL</b>	Aluminum	Copper Plated	<b>RF507CU</b>
	Aluminum	Black	<b>RF507BK</b>	Aluminum	Nickel Plated	<b>RF507NI</b>
	Aluminum	Chestnut Brown Paint	<b>RF507BN</b>			



## Floor Boxes for Wood Floors

### Features

Duplex floor receptacles provide ample connections to service lighting, entertainment equipment and computers for family rooms and offices. Single receptacle configurations available for minimum requirements.

- Low profile, solid brass flange and cover
- Cut out template provided to assure proper sub-flooring preparation
- Line and low voltage options
- 2½ inch hole, ample wiring room
- For use with single or feed through service



RF151R

### Drop-In Floor Box

Drop-In Floor Boxes are perfect for quick and easy installation of power or low voltage. Simply cut a hole between the floor and joists and drop through. The flange lip holds it in place.



### Floor Boxes for Wood Floors



Description	Material	Catalog Number	Catalog Number
Drop In Floor Box Mounts in 2½ inch hole opening. Includes solid brass cover, single tamper-resistant receptacle, optional device mounts for two (2) voice/data video ports. Suitable for feed through circuitry. Impact resistant box.	Solid Brass	<b>RF151R</b>	<b>RF201R</b>
Duplex Receptacle Floor Box Rated Includes steel box, duplex TR receptacle and cover.	Solid Brass	<b>RF6500BR</b>	—
Single Receptacle Floor Box Rated Includes steel box, single receptacle and cover.	Solid Brass	<b>RF151TR</b>	—
Single Receptacle Display Rated Receptacle and cover only, excludes box.	Solid Brass	<b>RF151DTR</b>	—

Note: See page Tech-10 for Tamper-Resistant description.



RF151R



RF6500BR



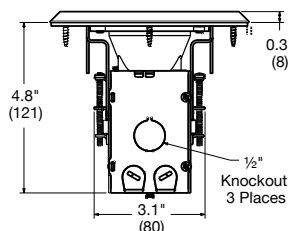
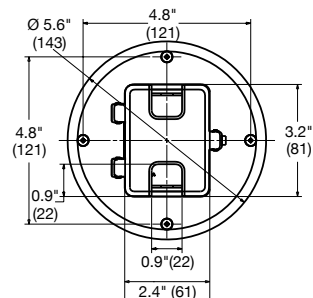
RF151TR



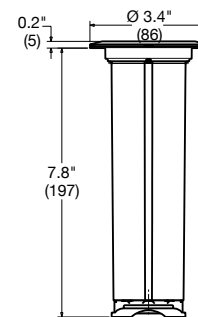
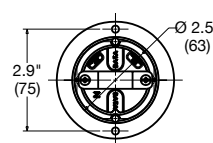
RF151DTR

### Dimensions

#### Wood Floor Boxes



#### Drop-In Floor Box



Dimensions in Inches (mm)

## Countertop Receptacles

Hubbell Pop-Up Receptacles for countertops provide a power source ideal for kitchen and bath counters and islands. Hubbell is the first to market a countertop receptacle that is UL Listed. It allows compliance with NEC® 406.5(E) [countertops], 406.5(F) [work surfaces], and 406.5(H) [seating areas]. Pop-Up Receptacles are tested and water resistant to a half gallon spill. The receptacles feature Hubbell's patent pending silicone gaskets and patented cam action tamper-resistant technology. The compact design minimizes space required on the countertop as well as underneath in the cabinet area.

### Features

- Surface or flush mount options
- Self sealing silicone gaskets at the receptacle face
- Compact design
- Permanent installation ready (suitable for MC cable or non-metallic sheath cable)
- Seven different finishes available
- Features two water and tamper-resistant receptacles
- Easy push down to pop-up function is rated for a minimum of 10,000 cycles (OPEN/CLOSE)
- Easy installation - simply drop in and tighten
- Listed



## Because Spills Happen



**Hubbell Countertop Receptacles  
are Spill Test Compliant**

Hubbell Countertop Receptacles are the first pop-up receptacles UL listed for countertop applications and permanent installations.

### UL 498 Section 146

Built and listed to be water resistant to a half gallon of liquid spilled on the device.

### NEC 406.5(E)

*Receptacle assemblies for installation in countertop surfaces shall be listed for countertop application.*

### NEC 406.5(E) "Receptacles in Countertops"

*For a receptacle to meet this requirement it must be part of a listed assembly for use in countertops*

- May be exposed to a larger liquid spill
- Can also be installed in work surfaces
- Must be GFCI protected surface

### NEC 406.5(F) "Receptacles in Work Surfaces"

*For a receptacle to meet this requirement it must be part of a listed assembly for use in work surfaces*

- Does not require as high of a spill rating
- Cannot be used in countertop applications

## Countertop Receptacles



Surface Mount



Flush Mount



RCT200BK

### Countertop Receptacles

Description	Finish	Color/Material	Surface Mount	Flush Mount
15A 125V Tamper-Resistant Pop-Up Kitchen Counter Receptacle, Rated for 20A circuits	Powder Coated	Black	<b>RCT200BK</b>	<b>RCT201BK</b>
		White	<b>RCT200W</b>	<b>RCT201W</b>
	Brushed	Aluminum	<b>RCT200ALU</b>	<b>RCT201ALU</b>
		Brass Nickel	<b>RCT200BR</b> <b>RCT200NI</b>	<b>RCT201BR</b> <b>RCT201NI</b>
Polished	Chrome	<b>RCT200CH</b>	<b>RCT201CH</b>	
	Matte	Bronze	<b>RCT200BZE</b>	<b>RCT201BZE</b>



Powder Coated Black



Powder Coated White



Brushed Aluminum



Brushed Brass



Brushed Nickel



Polished Chrome



Matte Bronze

### Specifications

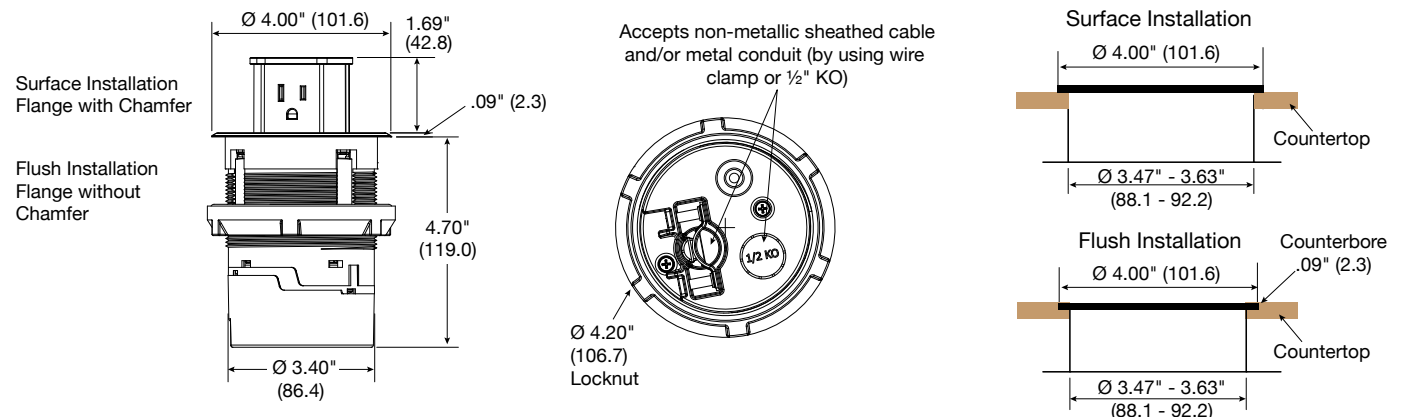
#### Performance

Configuration	15 amp 125 volt, Tamper Resistant Receptacle
Circuit Rating	20 amp non-feed through
Listings	cULus Listed to UL498, Section 145 Mechanical Load Test, 146 Spill Test
Dielectric Voltage	Withstands 2,000V minimum
Terminal Accommodation	#14-#12 AWG copper stranded or solid conductor only
Terminal Identification	Terminals identified in accordance with UL 498 and CSA
Flammability	UL 94V-2
Operating Temperature	Maximum continuous 75°C, minimum -40°C (w/o impact)

#### Materials

Cover and Flange	Die Cast Aluminum
Main Body	Engineered Thermoplastic PBT
Wiring Chamber	Die Cast Aluminum
Water Seals	Elastomers and Silicon

### Dimensions



Note: Recommended to be fed by a GFCI circuit, up to 20 Amp Service.

Dimensions in Inches (mm)

## Under Cabinet/Counter Power Distribution

### Features

These boxes comply with the NEC® for kitchen receptacles, with placement not more than 20 inches above the counter surface. They can also be placed under counter islands, not lower than 15 inches from the surface.

- Available with nylon or metal cover
- Custom configurable, accepts any decorator style device
- Mounting hardware included
- UL Listed and CSA Certified under cabinet boxes



### Under Cabinet/Counter Power Distribution

Description	Material	Catalog Number
Slim Box	Stainless Steel	<b>RU100SS</b>
	White Metal	<b>RU100W</b>
	White Nylon	<b>RU170W*</b>
GFCI Fit Box	Stainless Steel	<b>RU200SS</b>
	White Metal	<b>RU200W</b>
	White Nylon	<b>RU270W*</b>

Note: \*Steel box with nylon cover.



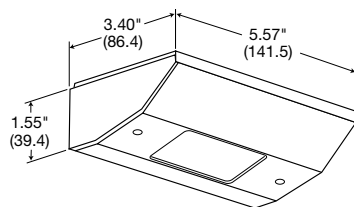
**RU100W**



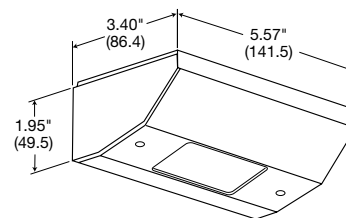
**RU200SS**

### Dimensions

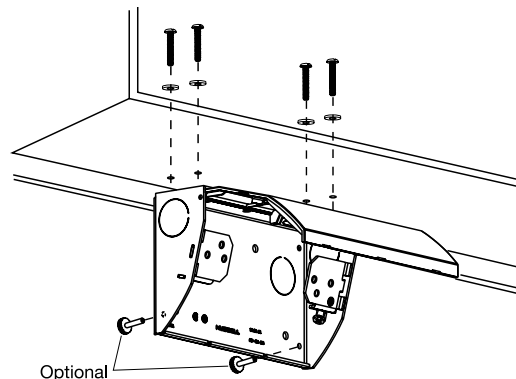
#### Slim Box



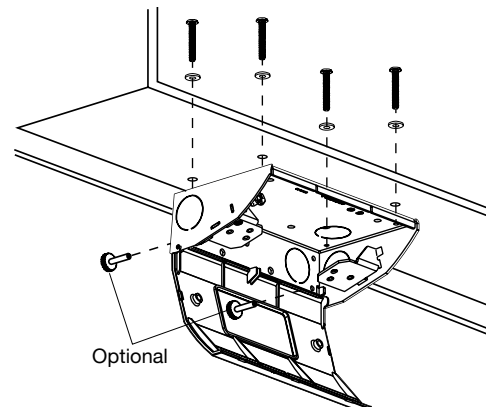
#### GFCI Fit Box



### Vertical Mount



### Horizontal Mount



Dimensions in Inches (mm)

NEC® is a registered trademark of the National Fire Protection Association (NFPA).



## JLOAD® Multimedia Outlet

### Make the Most of a Perfect Location

Install receptacles and voice/data devices exactly where they are needed, in the smallest space possible.

### Features

- Accepts any snap fit jack configuration (see page X-10)
- Isolates low voltage and power in the same box
- Custom box mounting
- Provides for data, telephone and coaxial
- Available in 15 or 20 Amp



**RJ620W**

Note: Requires unique box shown below.



### Special Use Products



Description	Color	Tamper-Resistant	Tamper-Resistant
JLOAD® Multimedia Outlet Specifically designed to provide power, Cat. 5e and coaxial in a single gang box. Requires JLOAD® Multimedia Box RJ600. Perfect for HDTV and computer use where a combination of power and data are needed. Includes decorator frame, one Cat. 5e, one F-connector and one power receptacle 125V with voltage dividers*.	Black	<b>RJ650BKTR</b>	<b>RJ620BKTR</b>
	Gray	<b>RJ650GYTR</b>	<b>RJ620GYTR</b>
	Ivory	<b>RJ650ITR</b>	<b>RJ620ITR</b>
	Light Almond	<b>RJ650LATR</b>	<b>RJ620LATR</b>
	White	<b>RJ650WTR</b>	<b>RJ620WTR</b>
JLOAD® Multimedia Outlet Includes decorator frame with two open ports for custom configuration and one power receptacle 125V with voltage dividers*.	Black	<b>RJ65BKTR</b>	<b>RJ62BKTR</b>
	Gray	<b>RJ65GYTR</b>	<b>RJ62GYTR</b>
	Ivory	<b>RJ65ITR</b>	<b>RJ62ITR</b>
	Light Almond	<b>RJ65LATR</b>	<b>RJ62LATR</b>
	White	<b>RJ65WTR</b>	<b>RJ62WTR</b>
JLOAD® Multimedia Box 3 inches deep with seven 1/2-inch knockouts, non-metallic sheathed cable clamps on each side. Screw in mounting to stud.	Steel	<b>RJ600</b>	<b>RJ600</b>



**RJ620W**



**RJ62W**



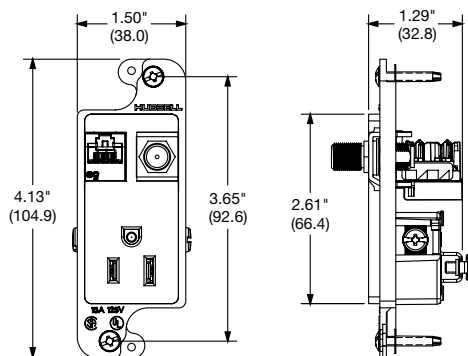
**Dividers**



**RJ600**

Note: \*Dividers provided for use with the RJ600, RF515 series and RU200 series boxes. RF408 required for use with the RF400 series floor boxes. See page X-10 for snap fit inserts. See pages X-21 to X-26 for floor boxes and under cabinet power distribution options. See page Tech-10 for Tamper-Resistant description.

### Dimensions



Dimensions in Inches (mm)



## Decorator Switches - Technical Information

### Features

- Smooth, quiet rocker action
- Self-grounding feature standard
- Ultrasonically welded cover and base provides maximum strength
- Push, back and side wiring
- Available colors: Black, Brown, Gray, Ivory, Light Almond and White



**RSD115W**

### Specifications

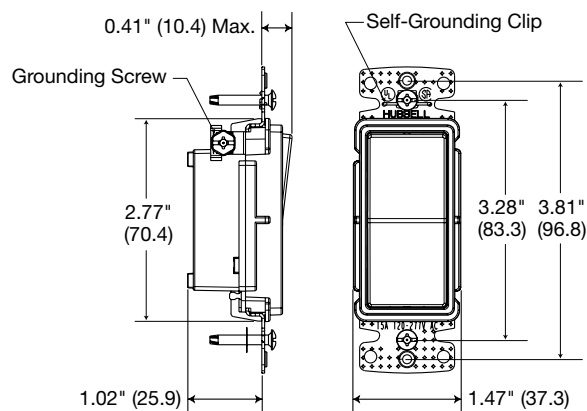
Switches	Component	Material
Typical Specification — Catalog Number <b>RSD115xx</b>	Base and body	PVC
Description — Decorator series rocker switch	Rocker	Polycarbonate
Type — Single Pole	Terminals	Brass
Rating — 15A, 120-277V AC	Mounting strap	Galvanized steel
Certification — Listed to UL Standard 20	Contacts	Silver alloy
CSA Certified	Movable contact arm	Copper alloy
	Terminal screws	Steel

Note: **xx** = Color: **BK** (Black), **BL** (Brown), **GY** (Gray), **I** (Ivory), **LA** (Light Almond), and **W** (White).

### Performance

Electrical	
Dielectric voltage	Withstands 1,500V AC minimum for 1 minute.
Max. working voltage	120V.
Overload	1.5 times rating.
Endurance	30,000 cycles minimum.
Mechanical	
Terminal accommodation	Back and side wire: #14 AWG min. - #12 AWG max. solid and stranded copper wire only; push wire: #14 AWG solid copper wire only.
Environmental	
Flammability	UL V0.
Operating temperatures	Maximum continuous 60°C; minimum -20°C (without impact).

### Dimensions



**Single-Pole Decorator Switch**

Dimensions in Inches (mm)

# SECTION Y

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### 30, 50, 100 & 200 Amp Cable Sets and Devices



### Marine Adapters



### GFCIs, USB Chargers, Receptacles and Switches



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### 2015 UL GFCI Requirements

GFCI Standard 943 Effective June 29, 2015 . . . . . page 39



**Why:** Studies show the majority of installed GFCI devices are not being manually tested on a monthly basis as required by UL.

#### UL Changes

- The GFCI product must automatically monitor ground fault circuit interrupting functionality every (3) hours or less
- If the device can no longer provide GFCI protection it must deny power and provide a visual and/or audible indication that it no longer can provide protection
- If the line conductor is incorrectly wired to the load terminal, power to the receptacle will be denied. This includes initial installation and any subsequent reinstallations

#### What does this mean?

Distributors, Electricians and Contractors can continue to sell and install the current design without any restrictions before or after the June 29th date.

**GFCI Manufacturers** must end production of current design by June 28th. New self test design will begin to show up on warehouse shelves by mid June.

#### The Hubbell Story – External Changes

- No impact to installer or end user
- No change in wiring or method of installation
- Same physical size and interface
- Added power indicator (solid green)
- Added trip indicator (solid red)
- Added “end of life” indicator (flashing red)

### Improved 3.8 Amp USB Duplex Receptacle . . . . . page 38

Now, faster and more powerful than ever, Hubbell is pleased to announce the USB Duplex Receptacle with 3.8 amps of USB charging capacity.

Hubbell’s 3.8 USB Charger leads the industry in providing more power to charge more portable devices faster. When specifying the Hubbell product, engineers and designers will now be able to assure their users the best in technology and speed. It runs cooler, lasts longer and available in the same physical one gang configuration.

The product is marked 3.8 amps. The face is changed compared to our 3.0 design, with a cleaner look, now without the molded in lines separating the USB section from the plug insert area.



# Marine Products

## New Marine Products

### FD Boxes and Angled Adapters ..... page 46

Introducing a fully UL Listed surface mount box engineered with features that allow easy, code compliant installation of all types of devices from 15A to 50A, including metallic ground bonding bracket, threaded conduit hubs and external mounting supports. Together with an industry first 55 degree angle adapter, the combination of devices is the only code compliant 45 cu.in. solution for 50A 4 wire installations. The angle adapter can also be installed separately for panel applications.



### Marine Grade Dockside Boxes and Covers

30 cu. in. FD box made of high impact thermoplastic material. Accepts duplex and single receptacles up to 50A Twist-Lock®.



#### Housing Design

- 3/4" NPT and 1" NPT threaded hub options
- 30 cu. in. FD box made of high impact thermoplastic material
- External mounting feet, accepts #10 screw
- Stainless steel mounting/grounding bracket



#### Housing Design

- 55° angle adapter (15 cu. in.)
- External mounting feet, accepts #8 screw
- Stainless steel mounting/grounding bracket

### Hubbell Twist-Lock® Circuit Tester .....page 38

Styled and sized like a standard Hubbell Twist-Lock® Plug. Simply plug it in and the LED back panel immediately identifies if the connections are made correctly and are in the correct position, ensuring the device is wired properly. An easy to read card is provided with the tester, to help determine if the connections are correct. This tester is compact and can easily clip onto your tool belt. The Hubbell Circuit Tester is UL and C-UL Listed.





# Marine Products

## Ship-to-Shore Selection Chart - Boatside

**30A  
125V AC  
2 Pole  
3 Wire**

Pages Y-9 to Y-12



HBL303NM



HBL303SS



HBL26CM13



HBL60CM33  
HBL60CM33W

**50A  
125V AC  
2 Pole  
3 Wire**

Pages Y-13 to Y-15



HBL503NM



HBL503SS



HBL63CM60



HBL77CM15  
HBL77CM15W

**50A  
125/250V AC  
3 Pole  
4 Wire**

Pages Y-16 and Y-17



HBL504NM



HBL504SS



HBL63CM64



HBL77CM15  
HBL77CM15W

**100A  
125/250V AC  
3 Pole  
4 Wire**

Pages Y-18 to Y-20



M4100B12R



M4100C12R

**100A  
3ØY  
4 Pole  
5 Wire**

Page Y-21  
120/208V AC  
277/480V AC



M5100B9R  
M5100B7R



M5100C9R  
M5100C7R

**200A  
600V AC/250V DC  
50-400 Hertz  
4 Pole  
5 Wire**

Pages Y-22 and Y-23



M5200BS1R



M5200CS1R

**Portable  
Telephone  
Cable TV  
Devices**

Pages Y-30 and Y-31



HBLPHTVNM



HBLPHTVSS



HBLTVSS



PH6624



PH7440



# Marine Products

## Ship-to-Shore Selection Chart - Dockside



**YC310250** - 280' (85.3m) Yellow cable only.  
**WC310280** - 280' (85.3m) White cable only.

**HBL61CM08 & HBL61CM08LED** - 50' (15.2m)  
**HBL61CM05 & HBL61CM05LED** - 35' (10.7m)  
**HBL61CM03 & HBL61CM03LED** - 25' (7.6m)  
**HBL61CM08W & HBL61CM08WLED** - 50' (15.2m)  
**HBL61CM03W & HBL61CM03WLED** - 25' (7.6m)



**HBL60CM31**  
**HBL60CM31W**



**HBL26CM11**



**HBL26CM10**



**HBL74CM25WOA**  
**HBL74CM25WOAW**



**YC306250** - 250' (76.2m) Yellow cable only.

**HBL61CM53 & HBL61CM53LED** - 50' (15.2m)  
**HBL61CM43 & HBL61CM43LED** - 25' (7.6m)



**HBL77CM16**  
**HBL77CM16W**



**HBL63CM61**



**HBL63CM70**



**HBL77CM74WO**



**YC406250** - 250' (76.2m) Yellow cable only.

**HBL61CM52 & HBL61CM52LED** - 50' (15.2m)  
**HBL61CM42 & HBL61CM42LED** - 25' (7.6m)  
**HBL61CM52W & HBL61CM52WLED** - 50' (15.2m)  
**HBL61CM42W & HBL61CM42WLED** - 25' (7.6m)



**HBL77CM16**  
**HBL77CM16W**



**HBL63CM65**



**HBL63CM69**



**HBL77CM74WO**



**CS1004** - 100' (30.4m) 4-Wire  
**CS754** - 75' (22.8m) 4-Wire  
**CS100IT4** - 100' (30.4m) 3-Wire  
**CS75IT4** - 75' (22.8m) 3-Wire

**CW125IT4** - 125' (38.0m) One-ended cable set for winches.  
**CW100IT4** - 100' (30.4m) One-ended cable set for winches.  
**CW754** - 75' (22.8m) One-ended cable set for winches.  
**CS50EXT4** - 50' (15.2m) Extension cord.



**M4100P12**



**M4100C12**



**M4100R12**



**CS100IT5** - 100' (30.4m) 4-Wire  
**CS75IT5** - 75' (22.8m) 4-Wire

**CW125IT5** - 125' (38.0m) One-ended cable set for winches.  
**CW100IT5** - 100' (30.4m) One-ended cable set for winches.  
**CS50EXT5** - 50' (15.2m) Extension cord.



**M5100P9**  
**M5100P7**



**M5100C9**  
**M5100C7**



**M5100R9**  
**M5100R7**



**M5200PS1**



**M5200CS1**



**M5200RS1**



**PH6630** - 250' (76.2m) Yellow cable only.  
**PH6599** - 50' (15.2m)  
**PH6598** - 25' (7.6m)  
**PH6599W** - 50' (15.2m)  
**PH6598W** - 25' (7.6m)

**75 Ohm TV Cable**  
**TV99** - 50' (15.2m)  
**TV98** - 25' (7.6m)  
**TV99W** - 50' (15.2m)  
**TV98W** - 25' (7.6m)



**PH7440**



**PH6625**



**PH6596**



**TV97**



**PH6597TV**

# Marine Products

## Features and Benefits

### ABYC Code Requirements

Hubbell Marine Electrical continues its tradition of innovation by developing a simple, flexible method of adapting a variety of ELCI Sensors and Breakers to our traditional Stainless Steel and Non-Metallic Shore Power Inlet Housings.

Effective July 31, 2012, ABYC, E-11.11.1 requires that "An Equipment Leakage Circuit Interrupter (ELCI) shall be installed with or in addition to the main shore power disconnect circuit breaker(s) or at the additional over current protection as required by E-11.10.2.8.3, whichever is closer to the shore power connection".

***Hubbell's family of ELCI adaptive Shore Power Inlet Kits provide a simple, flexible, low-cost solution.***

#### Kits Contain:

- Hubbell Shore Power Inlet
- Matching Shore Power Inlet Housing(s)
- Mounting Adapter Plate(s) for use with various ELCI Sensors and ELCI Breakers (not provided)
- Stainless Steel Hardware



An Equipment Leakage Circuit Interrupter (ELCI) provides 30mA ground fault protection for the entire AC shore power system beyond the ELCI



# Marine Products

## ELCI Interface Solutions

### Hubbell ELCI Adapter Kits for North Shore Safety, Ltd® PGFM Series (ELCI Marine) Sensing Module and Sensata Technologies® ELCI Breakers

Description	Breaker	Sensor	Power Inlet	Catalog Number
30 Amp, 125 Volt Non-Metallic Inlet (HBL303NM) and (2) Non-Metallic Inlet Housings, Adapter Plates and Hardware.				<b>HBL303NMELCI</b>
30 Amp, 125 Volt Non-Metallic Inlet (HBL303NM) and (1) Non-Metallic Inlet Housing that adapts to North Shore Safety's Sensor only (no circuit breaker inlet housing), Adapter Plate and Hardware.				<b>HBL303NMELCIS</b>
30 Amp, 125 Volt Stainless Steel Inlet (HBL303SS) and (2) Stainless Steel Inlet Housings, Adapter Plates and Hardware.				<b>HBL303SSELCI</b>
30 Amp, 125 Volt Stainless Steel Inlet (HBL303SS) and (1) Stainless Steel Inlet Housing that adapts to North Shore Safety's Sensor only (no circuit breaker inlet housing), Adapter Plate and Hardware.				<b>HBL303SSELCIS</b>
50 Amp, 125/250 Volt Stainless Steel Inlet (HBL504SS) and (2) Stainless Steel Inlet Housings, Adapter Plates and Hardware.				<b>HBL504SSELCI</b>
50 Amp, 125/250 Volt Stainless Steel Inlet (HBL504SS) and (2) Stainless Steel Inlet Housing that adapts to a standard overcurrent-type circuit breaker.				<b>HBL504SSELCIH</b>
Blank Non-Metallic Inlet Housing and Hardware for mounting North Shore Safety ELCI Sensor only.				<b>HBLRRELCI</b>

Note: North Shore Safety's Sensor and Sensata Technologies Circuit Breakers (not provided) are separate devices each requiring their own blank shore power inlet interface.



## Features and Benefits

### 30 Amp Cable Sets

- Bright, durable, LED (green) indicates “Power-ON”
- High intensity LED is visible—even in bright sunlight
- Totally molded design for superior waterproofing and durability
- Exclusive copper crimp barrel terminations for tighter connections and longer life
- Marine UL and cUL Listed



HBL61CM08

HBL61CM08LED

*Note: Cable sets must be fully extended before using.*



#### Housing Design

- New improved ergonomic styling
- Line-up notches to indicate: Locked - Unlocked
- Arrow indicating lock or unlock position
- Available in yellow or white colors



#### Interior Design

- Molded design totally encased in solid PVC material, for superior waterproofing and durability
- Locking ring assures proper alignment of connector to inlet for complete contact and waterproofing; prevents accidental disengagement



#### Safety

- Bright green LED indicates “Power-ON”



#### Interior Design

- Strain relief bull ring protects against stress and strain on the conductors caused by boat movement, crew traffic and rough handling
- Exclusive copper crimp barrel termination provides protection against internal overheating as well as additional strain relief



#### Cord Flexibility

- Molded flexneck adds life to cable set by helping to prevent right-angle cable damage and pullout
- Jute fillers inside jacket for maximum cable flexibility; Hubbell cable coils neater, lighter and lays flatter; particularly in colder climates



#### Cable Set Options

- Available in 50, 35 and 25 foot lengths
- Available with or without LED
- Available in UV resistant yellow or white
- Marine UL and cUL Listed

## 30A Ship-to-Shore Devices

### 30 Amp Cable Sets and Bulk Cable

Our 30A 125V cable set is packed with high performance details from end to end that make a real difference. Completely factory pre-wired with molded-on devices. Designed to coil easily and lay flat.

**IP55**  
SUITABILITY  
(Boatside)



**HBL61CM08**  
**HBL61CM05**  
**HBL61CM03**

### 30A 125V Cable Sets and Bulk Cable

Description	Catalog Number
Yellow 50 ft. (15.2m) vinyl jacketed shore power cable set. #10 AWG is factory pre-wired with molded-on devices. Connector end has non-metallic threaded sealing ring which makes inlet/connector interface watertight.	<b>HBL61CM08</b>
Same as HBL61CM08 except 35 ft. (10.7m) in length.	<b>HBL61CM05</b>
Same as HBL61CM08 except 25 ft. (7.6m) in length.	<b>HBL61CM03</b>
Same as HBL61CM08 except in white in color.	<b>HBL61CM08W</b>
Same as HBL61CM03 except in white in color.	<b>HBL61CM03W</b>

Note: See page Y-8 for features and benefits.

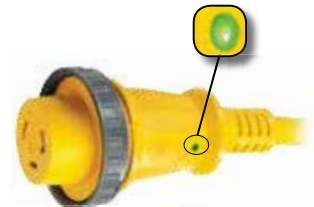


**HBL61CM08W**  
**HBL61CM03W**

### 30A Cable Sets with LED "Power-ON" Indicator

Description	Catalog Number
Yellow 50 ft. (15.2m) vinyl jacketed shore power cable set. #10 AWG is factory pre-wired with molded-on devices. Connector end has non-metallic threaded sealing ring which makes inlet/connector interface watertight.	<b>HBL61CM08LED</b>
Same as HBL61CM08LED except 35 ft. (10.7m) in length.	<b>HBL61CM05LED</b>
Same as HBL61CM08LED except 25 ft. (7.6m) in length.	<b>HBL61CM03LED</b>
Same as HBL61CM08LED except in white in color.	<b>HBL61CM08WLED</b>
Same as HBL61CM05LED except in white in color.	<b>HBL61CM05WLED</b>
Same as HBL61CM03LED except in white in color.	<b>HBL61CM03WLED</b>

Note: See page Y-8 for features and benefits.



**HBL61CM08LED**  
**HBL61CM05LED**  
**HBL61CM03LED**

### Accessories

Description	Catalog Number
Yellow 250 ft. (76.2m) three conductor, #10 AWG type STW, PVC jacketed portable cord with jute fillers for added flexibility. Ideal for making cable sets, extension cord, and adapters that will not mark boat's deck. 250 ft. (76.2m) lengths only.	<b>YC310250</b>
White 280 ft. (85.3m) three conductor, #10 AWG type STW, PVC jacketed portable cord with jute fillers for added flexibility. Ideal for making cable sets, extension cord, and adapters that will not mark boat's deck. 280 ft. (85.3m) lengths only.	<b>WC310280</b>
Replacement non-metallic sealing ring for 30A cable sets and boots.	<b>RPL30P*</b>

Note: \*Not UL Listed.



**YC310250**



**RPL30P**



## 30A Ship-to-Shore Devices

### 30 Amp 125 Volt Shore Power Inlets and Outlet

Traditional, stainless steel shore power inlet has easy-to-wire terminations. Interior is transparent for quick and easy visual inspection. Interior is shielded from the elements by a gasketed, self-closing cover, watertight when cover is screwed in place. Mounting holes are 2.38 in. (60.3) on centers. Mounting screws and gasket included. Protective rear enclosure/strain relief also included.

- Self-closing cover assures the interior is shielded from the elements when the inlet is not in use
- Neoprene gasket on underside of cover. For sealing when the cover is closed
- Mirror stainless steel finish for superior appearance



HBL303SS



#### Housing Design

- Base and cover are #316 type stainless steel for strength and corrosion resistance
- Threaded base for making a watertight seal. When in use, it mates to the threaded ring of the weatherproof cover on the connector body; when not in use, it mates to the threaded cover



#### Interior Design

- Contact blades are nickel plated brass for corrosion resistance
- Mounting holes are 2 $\frac{3}{8}$  in. (60.3) on center
- Polycarbonate interior has superior heat resistance



HBL303NM



#### Terminations

- Easy-to-wire interior is transparent for quick, visual inspection of terminations
- #SR3050 protective rear enclosure cap attaches to contact carrier with 3 screws



HBLCBISS



HBLCBINM



HBL303SSO

### 30A 125V Twist-Lock® Devices

Description	Catalog Number
Stylized UV resistant non-metallic shore power inlet has white Centrex® cover which makes unit weatherproof when completely closed. Interior has easy-to-wire terminations and is transparent for quick and easy visual inspection. Mounting holes are 2.38 in. (60.3) on centers and match existing mounting patterns. Mounting screws and gasket included. Protective rear enclosure/strain relief also included. <b>IP55 SUITABILITY.</b>	<b>HBL303NM</b>
Traditional, stainless steel shore power inlet has easy-to-wire terminations. Interior is transparent for quick and easy visual inspection. Interior is shielded from the elements by a gasketed, self-closing cover, watertight when cover is screwed in place. Mounting holes are 2.38 in. (60.3) on centers. Mounting screws and gasket included. Protective rear enclosure/strain relief also included. <b>IP56 SUITABILITY.</b>	<b>HBL303SS</b>
Traditional stainless steel inlet housing; blank for attaching a circuit breaker (not included). Mounting hardware for Carling series breakers included. <b>IP56 SUITABILITY.</b>	<b>HBLCBISS</b>
Stylized non-metallic inlet housing; blank for attaching a circuit breaker (not included). Mounting hardware for Carling series breakers included. <b>IP55 SUITABILITY.</b>	<b>HBLCBINM</b>
Protective rear cover. Fits all 30A shore power inlets. Secures to back of inlets with three screws which are provided.	<b>SR3050*</b>
Replacement interior for HBL303SS and 60CM61 shore power inlets.	<b>HBL303INT</b>
Traditional stainless steel power outlet has gasketed, self-closing cover, watertight when cover is screwed in place. Mounting holes are 2.38 in. (60.3) on centers. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	<b>HBL303SSO</b>
Nickel plated brass adapter plate for mounting 30A traditional style shore power inlets and outlets to FS/FD box.	<b>HBL60CM75</b>

Note: \*Not UL Listed or CSA Certified.

Centrex® is a registered trademark of LANXESS Corporation.

## 30A Ship-to-Shore Devices



### 30A 125V Twist-Lock® Devices

Description	Catalog Number
Yellow Insulgrip® plug has rugged nylon housing and cord grip with range of .36–.93 in. (9–24) that utilizes a unique offset jaws arrangement to provide secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL26CM11</b>
Yellow Insulgrip connector body has rugged nylon housing and cord grip with range of .36–.93 in. (9–24) that utilizes a unique offset jaws arrangement to provide secure strain relief.	<b>HBL26CM13</b>
Yellow single receptacle has Rynite® body and abuse resistant nylon face. <b>IP20 SUITABILITY.</b>	<b>HBL26CM10</b>



**HBL26CM11**



**HBL26CM13**

### Boots and Weatherproof Plates

Description	Catalog Number
Yellow Seal-Tite® cover for weatherproofing HBL26CM11 plugs. <b>IP44 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM31+</b>
White Seal-Tite cover for weatherproofing HBL26CM11 plugs. <b>IP44 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM31W+</b>
Yellow Seal-Tite cover for weatherproofing HBL26CM13 connector bodies when used with shore power inlets. Threaded sealing ring makes connection watertight. Also for weatherproofing HBL26CM11 plug when used with HBL303SSO power outlet. <b>IP56 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM33+</b>
White Seal-Tite cover for weatherproofing HBL26CM13 connector body when used with shore power inlets. Threaded sealing ring makes connection watertight. Also for weatherproofing HBL26CM11 plug when used with HBL303SSO power outlet. <b>IP56 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM33W+</b>
Yellow Seal-Tite cover for weatherproofing HBL26CM13 connector bodies when used on extension cords or adapters. <b>IP44 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM32+</b>
Yellow polycarbonate spring-loaded lift cover for weather-proofing old style 26CM10 receptacle. Meets the most stringent requirements of UL's three listing categories for weatherproof plates. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	<b>HBL74CM24WO**</b>
Same as HBL74CM24WO except gray in color. <b>IP44 SUITABILITY.</b>	<b>HBL7424WO**</b>
Yellow polycarbonate spring-loaded lift cover for weather-proofing HBL26CM10 receptacle. Meets the most stringent requirements of UL's three listing categories for weatherproof plates. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	<b>HBL74CM25WOA**</b>
Same as HBL74CM25WOA except white in color. <b>IP44 SUITABILITY.</b>	<b>HBL74CM25WOAW</b>
Same as HBL74CM25WOA except gray in color. <b>IP44 SUITABILITY.</b>	<b>HBL7425WOA**</b>
Stainless steel wall plate for old 26CM10.	<b>SS725</b>
Stainless steel wall plate for new HBL26CM10.	<b>SS720</b>



**HBL26CM10**



**HBL60CM31**



**HBL60CM33**



**HBL60CM32**



**HBL74CM24WO**



**HBL74CM25WOAW**



**SS725**

Note: +Boots are not UL Listed or CSA Certified.  
\*\*See page Y-45 for additional weatherproof plates.

Rynite® is a registered trademark of E. I. DuPont.

## 30A Ship-to-Shore Devices

### 30 Amp Valise® Devices

A unique system of special locking lugs interlock the blade holder and sides as the plug is closed. These load bearing lugs provide strength and security and keep the Valise intact.



HBL26CM11V



#### Housing Design

- Nylon body
- Wiring time is reduced. Large easy to wire clamp type terminals eliminate the need to wrap conductors around a screw



#### Interior Design

- Exclusive nylon webs are provided to make wiring quick & easy by joining the three sections together during assembly
- Powerful cord grips resist conductor slip and strain on wiring terminals
- Nickel plated brass contacts for corrosion resistance



#### Terminations

- Terminals provide a superior electrical connection by "bundling" the conductors when the clamps are tightened
- Two captive stainless steel assembly screws



HBL26CM11V



HBL26CM11VB



HBL26CM13V



HBL60CM31V



HBL60CM33V



### 30A 125V Twist-Lock® Devices

Description	Catalog Number
Yellow Valise® plug has one-piece nylon housing and assembles easily with two screws. Built-in cord grip has range of .59-.93 in. (15.0-23.6). <b>IP20 SUITABILITY.</b>	<b>HBL26CM11V</b>
Black Valise plug for use on bass boats with trolling motor. One-piece nylon housing assembles easily with two screws. Built-in cord grip has a range of .59-.93 in. (15.0-23.6). <b>IP20 SUITABILITY.</b>	<b>HBL26CM11VB</b>
Yellow Valise connector body has a one-piece nylon housing and assembles easily with two screws. Built-in cord grip has range of .59-.93 in. (15.0-23.6). <b>IP20 SUITABILITY.</b>	<b>HBL26CM13V</b>

### Boots and Replacement Parts

Description	Catalog Number
Yellow Seal-Tite® cover for weatherproofing HBL26CM11V plugs. <b>IP44 SUITABILITY.</b> Note: Fits Valise devices only.	<b>HBL60CM31V**</b>
Yellow Seal-Tite cover for HBL26CM13V connector body when used with shore power inlets. Threaded sealing ring makes connection watertight. <b>IP56 SUITABILITY.</b> Note: Fits Valise devices only.	<b>HBL60CM33V**</b>
Yellow Seal-Tite cover for weatherproofing HBL26CM13V connector bodies when used on extension cords or adapters. <b>IP44 SUITABILITY.</b> Note: Fits Valise devices only.	<b>HBL60CM32V**</b>
Replacement non-metallic sealing ring for 30A cable sets and boots. Not UL listed.	<b>RPL30P*</b>

Note: \*\*Not UL Listed or CSA Certified.  
\*Not UL Listed.



## Features and Benefits

### 50 Amp Cable Sets

- Two bright and durable LEDs. GREEN indicates “Power-ON” and RED indicates “Incorrect Wiring” at the power source
- High intensity LEDs are visible—even in bright sunlight
- Totally molded design for superior waterproofing and durability
- Exclusive copper crimp barrel terminations for tighter connections and longer life
- Marine UL and cUL Listed



**HBL61CM52**

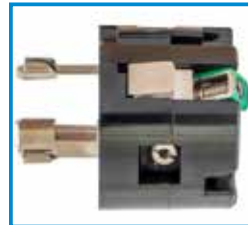
**HBL61CM52LED**

*Note: Cable sets must be fully extended before using.*



#### Housing Design

- New improved ergonomic styling
- Line-up notches to indicate: Locked - Unlocked
- Stainless steel threaded sealing ring to provide a watertight seal when mated with the shore power inlet
- Nickel plated brass shell for positive alignment of keying and corrosion-resistance



#### Interior Design

- Thermoset contact carrier is arcing and heat resistant
- Nickel plated brass contact blades for corrosion-resistance



#### Safety

- Arrow with ground symbol allows lining up with ground of receptacle
- Bright green LED indicates “Power-ON”; Bright red LED indicates “Incorrect Wiring” at the power source



#### Superior Termination

- Bull ring for strain relief on the terminals
- Exclusive copper crimp barrel termination provides protection against internal overheating and burnout compared to brass crimps



#### Cord Flexibility

- Molded-in flex feature controls the angle of cord entry and keeps water out
- Jute fillers inside jacket for maximum cable flexibility; Hubbell cable coils neater, lighter and lays flatter



#### Cable Set Options

- Available in 50 and 25 foot lengths
- Available in yellow or white
- Cords for winch systems available upon request
- Marine UL and cUL Listed

## 50A Ship-to-Shore Devices

### 50 Amp 125 Volt Traditional Stainless Steel Inlets

Traditional stainless steel shore power inlet has gasketed, self-closing cover so interior is shielded from the elements when not in use. Watertight when cover is securely fastened. Mounting holes are 2.38 in. (60.3) on centers and rear portion has 2.17 in. (55.1) diameter. Mounting screws and gasket included.

- Self-closing cover is friction tight to remain open while engaging cable set and shields the interior from the elements when the inlet is not in use
- Neoprene gasket on underside of cover, for sealing when the cover is closed

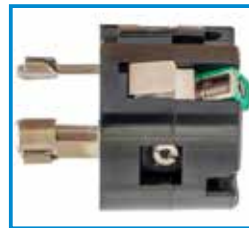


HBL503SS



#### Housing Design

- Base and cover end threads are #316 type stainless steel for strength and corrosion resistance
- Threaded base for making a watertight seal. When in use, it mates to the threaded ring of the weatherproof cover on the connector body; when not in use, it mates to the threaded cover



#### Interior Design

- Contact blades are nickel plated brass for corrosion resistance
- Pressure screw terminals for secure terminations clearly marked for easy identification
- Thermoset contact carrier is arcing and heat resistant



HBL503NM



#### Terminations

- Three screws "lock-in" the interior once it is in place
- Rear enclosure is nickel plated for corrosion resistance



50A 125V

### 50A 125V Twist-Lock® Devices

Description	Catalog Number
Stylized non-metallic shore power inlet has UV resistant white Centrex® cover which makes unit weatherproof when completely closed. Interior has easy to wire terminals. Mounting holes are 2.38 in. (60.3) on centers and match existing mounting patterns. Mounting screws and gasket included. <b>IP55 SUITABILITY.</b>	<b>HBL503NM</b>
Traditional stainless steel shore power inlet has gasketed, self-closing cover so interior is shielded from the elements when not in use. Watertight when cover is securely fastened. Mounting holes are 2.38 in. (60.3) on centers and rear portion has 2.17 in. (55.1) diameter. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	<b>HBL503SS</b>
Nickel plated brass connector body has heat resistant thermoset interior and combination metal and rubber cord grip provides superior strain relief capability. Cord grip range is .44–1.14 in. (11.1–29.0). <b>IP20 SUITABILITY.</b>	<b>HBL63CM60</b>

### Boots and Replacement Parts

Description	Catalog Number
Protective rear cover. Fits all inlets except HBL503SS. Secures to back of inlets with three screws which are provided.	<b>SR3050**</b>
Replacement interior for HBL503SS and 63CM72 shore power inlets.	<b>CR16277</b>
Yellow Seal-Tite® cover for connector bodies when used with 50A shore power inlets. Threaded sealing ring makes connections watertight. <b>IP56 SUITABILITY.</b>	<b>HBL77CM15**</b>
White Seal-Tite cover for connector bodies when used with 50A shore power inlets. Threaded sealing ring makes connections watertight. <b>IP56 SUITABILITY.</b>	<b>HBL77CM15W**</b>
Nickel plated brass cord clamp assembly with clamp range of .44–1.14 in. (11.1–29.0) provides strain relief for terminations on shore power inlets.	<b>HBL77CM67</b>
Yellow Seal-Tite cover for weatherproofing 50A connector bodies on extension cords or adapters. <b>IP56 SUITABILITY.</b>	<b>HBL77CM17**</b>



HBL77CM15



HBL77CM17

Note: \*\*Not UL Listed or CSA Certified.

Centrex® is a registered trademark of LANXESS Corporation.



## 50A Ship-to-Shore Devices

### 50 Amp 125 Volt Cable Sets and Bulk Cable

Our 50A 125V cable set is packed with high performance details from end to end that make a real difference. Completely factory pre-wired with molded-on devices. Designed to coil easily and lay flat.

**IP56**  
SUITABILITY  
(Boatside)



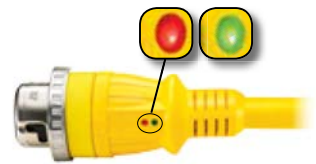
50A 125V



**HBL61CM53**  
**HBL61CM43**

### 50A 125V Cable Sets and Twist-Lock® Devices

Description	Catalog Number
Yellow 50 ft. (15.2m) vinyl jacketed shore power cable set. #6 AWG type STOW is completely factory pre-wired with molded-on devices. Connector end has threaded metallic sealing ring to make inlet/connector interface watertight. <b>IP54 SUITABILITY (BOATSIDE).</b>	<b>HBL61CM53</b>
Same as HBL61CM53 except with two high intensity LEDs.	<b>HBL61CM53LED</b>
Same as HBL61CM53 except 25 ft. (7.6m) in length.	<b>HBL61CM43</b>
Same as HBL61CM43 except with two high intensity LEDs.	<b>HBL61CM43LED</b>
Three conductor, #6 AWG type STOW, yellow PVC jacketed portable cord with jute fillers for added flexibility. Ideal for making cable sets, extension cords and adapters will not mark boat's deck. 250 ft. (75.2m) lengths only.	<b>YC306250</b>
Nickel plated brass plug has heat resistant thermoset interior and combination metal and rubber cord grip, provides superior strain relief capability. Cord grip range is .44-1.14 in. (11.1-29.0). <b>IP20 SUITABILITY.</b>	<b>HBL63CM61*</b>
Single receptacle has a heat-resistant thermoset base. <b>IP20 SUITABILITY.</b>	<b>HBL63CM70*</b>



**HBL61CM53LED**  
**HBL61CM43LED**

Note: \*UL Listed and CSA Certified.

See page Y-13 for features and benefits.



**HBL63CM61**

### Boots and Weatherproof Plates

Description	Catalog Number
Yellow Seal-Tite® cover for weatherproofing 50A plugs. <b>IP55 SUITABILITY.</b>	<b>HBL77CM16**</b>
White Seal-Tite cover for weatherproofing 50A plugs. <b>IP55 SUITABILITY.</b>	<b>HBL77CM16W**</b>
Yellow Valox® lift cover for weatherproofing 50A receptacles. Meets requirements of the most stringent of UL's three listing categories for weatherproof plates. Stainless steel screws and a neoprene gasket included. For mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	<b>HBL77CM74WO</b>
Same as HBL77CM74WO except gray in color. <b>IP44 SUITABILITY.</b>	<b>HBL7774WO</b>
Stainless steel wall plate for 50A receptacle.	<b>SS750</b>

Note: \*\*Not UL Listed or CSA Certified.



**HBL63CM70**



**HBL77CM74WO**



**HBL7774WO**



**SS750**



**HBL77CM16**



**HBL77CM16W**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## 50A Ship-to-Shore Devices

### 50 Amp 125/250 Volt Traditional Stainless Steel Inlets

Traditional stainless steel shore power inlet has gasketed, self-closing cover so interior is shielded from the elements when not in use. Watertight when cover is securely fastened. Mounting holes are 2.38 in. (60.3) on centers and rear portion has 2.17 in. (55.1) diameter. Mounting screws and gasket included.

- Self-closing cover is friction tight to remain open while engaging cable set and shields the interior from the elements when the inlet is not in use
- Neoprene gasket on underside of cover. For sealing when the cover is closed

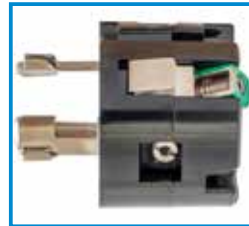


HBL504SS



#### Housing Design

- Base and cover are #316 type stainless steel for strength and corrosion resistance
- Threaded base for making a watertight seal. When in use, it mates to the threaded ring of the weatherproof cover on the connector body. When not in use, it mates to the threaded cover



#### Interior Design

- Contact blades are nickel plated brass for corrosion resistance
- Pressure screw terminals for secure terminations clearly marked for easy identification
- Thermoset contact carrier is arcing and heat resistant



HBL504NM



#### Terminations

- Three screws "lock-in" the interior once it is in place
- Rear enclosure is nickel plated for corrosion resistance



50A  
125/250V  
UL/CSA

### 50A 125/250V Twist-Lock® Devices

Description	Catalog Number
Stylized non-metallic shore power inlet has UV resistant white Centrex® cover which makes unit weatherproof when completely closed. Interior is heat resistant thermoset material and has box lug terminals. Mounting holes are 2.38 in. (60.3) on centers and match existing mounting patterns. Mounting screws and gasket included. <b>IP55 SUITABILITY.</b>	<b>HBL504NM</b>
Traditional stainless shore power inlet has gasketed, self-closing cover so that the interior is shielded from the elements when not in use. It is watertight when the cover is securely fastened. The mounting holes are 2.38 in. (60.3) on centers and the rear portion has a 2.17 in. (55.1) diameter. Mounting screws and gasket are included. <b>IP56 SUITABILITY.</b>	<b>HBL504SS</b>
Nickel plated brass connector body has a heat resistant thermoset interior and combination metal and rubber cord grip, which provides superior strain relief capability. Cord grip range is .44–1.14 in. (11.1–29.0). <b>IP20 SUITABILITY.</b>	<b>HBL63CM64</b>



HBL63CM64



HBL77CM15



HBL77CM17

### Boots and Weatherproof Plates

Description	Catalog Number
Protective rear cover. Fits all inlets except HBL504SS. Secures to back of inlets with three screws which are provided.	<b>SR3050**</b>
Replacement interior for 63CM74 and HBL504SS power inlets.	<b>CR16279**</b>
Yellow Seal-Tite® cover for connector bodies when used with 50A shore power inlets. Threaded sealing ring makes connections watertight. <b>IP56 SUITABILITY.</b>	<b>HBL77CM15**</b>
White Seal-Tite cover for connector bodies when used with 50A shore power inlets. Threaded sealing ring makes connections watertight. <b>IP56 SUITABILITY.</b>	<b>HBL77CM15W**</b>
Yellow Seal-Tite cover for weatherproofing 50A connector bodies on extension cords or adapters. <b>IP55 SUITABILITY.</b>	<b>HBL77CM17**</b>
Nickel plated brass cord clamp assembly with clamp range of .44–1.14 in. (11.1–29.0) provides strain relief for terminations on shore power inlets.	<b>HBL77CM67</b>

Note: \*\*Not UL Listed or CSA Certified.

Centrex® is a registered trademark of LANXESS Corporation.

## 50A Ship-to-Shore Devices

### 50 Amp 125/250 Volt AC Cable Sets and Bulk Cable

Our 50A 125/250V AC cable set is packed with high performance details from end to end that make a real difference. Completely factory pre-wired with molded-on devices. Designed to coil easily and lay flat.



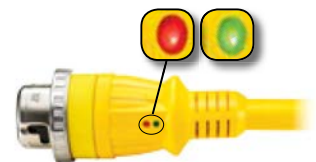
### 50A 125/250V Cable Sets and Twist-Lock® Devices

Description	Catalog Number
Yellow 50 ft. (15.2m) vinyl jacketed shore power cable set, #6 AWG type STOW is completely factory pre-wired with molded-on devices. The connector end has a metallic threaded sealing ring for making the inlet/connector interface watertight. <b>IP56 SUITABILITY (BOATSIDE).</b>	<b>HBL61CM52</b>
Same as HBL61CM52 except with two high intensity LEDs	<b>HBL61CM52LED</b>
Same as HBL61CM52 except white in color.	<b>HBL61CM52W</b>
Same as HBL61CM52LED except white in color.	<b>HBL61CM52WLED</b>
Yellow 25 ft. (7.6m) vinyl jacketed shore power cable set, #6 AWG type STOW is completely factory pre-wired with molded-on devices. The connector end has a metallic threaded sealing ring for making the inlet/connector interface watertight. <b>IP56 SUITABILITY (BOATSIDE).</b>	<b>HBL61CM42</b>
Same as HBL61CM52LED except 25 ft. (7.6m) in length.	<b>HBL61CM42LED</b>
Same as HBL61CM42 except white in color.	<b>HBL61CM42W</b>
Same as HBL61CM42LED except white in color.	<b>HBL61CM42WLED</b>
Four conductor, #6 AWG type STOW, yellow PVC jacketed portable cord with jute fillers for added flexibility is ideal for making cable sets, extension cords and adapters that will not mark the boats deck. Available in 250 ft. (76.2m) lengths only.	<b>YC406250</b>
Nickel plated brass plug has a heat resistant thermoset interior and combination metal and rubber cord grip, which provides superior strain relief capability. Cord grip range is .44-1.14 in. (11.1-29.0). <b>IP20 SUITABILITY.</b>	<b>HBL63CM65*</b>
Single receptacle has a heat resistant thermoset base. <b>IP20 SUITABILITY.</b>	<b>HBL63CM69*</b>

Note: \*UL Listed and CSA Certified.  
See page Y-13 for features and benefits.



**HBL61CM52**  
**HBL61CM52W**  
**HBL61CM42**  
**HBL61CM42W**



**HBL63CM65**

### Boots and Weatherproof Plates

Description	Catalog Number
Yellow Seal-Tite® cover for weatherproofing 50A plugs. <b>IP55 SUITABILITY.</b>	<b>HBL77CM16**</b>
White Seal-Tite® cover for weatherproofing 50A plugs. <b>IP55 SUITABILITY.</b>	<b>HBL77CM16W**</b>
Yellow Valox® lift cover for weatherproofing 50A receptacles. Meets requirements of the most stringent of UL's three listing categories for weatherproof plates. Stainless steel screws and a neoprene gasket included. For mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	<b>HBL77CM74WO</b>
Same as HBL77CM74WO except gray in color. <b>IP44 SUITABILITY.</b>	<b>HBL7774WO</b>
Stainless steel wall plate for 50A receptacle.	<b>SS750</b>

Note: \*\*Not UL Listed or CSA Certified.



**HBL63CM69**



**HBL77CM16**



**HBL77CM74WO**



**HBL7774WO**



**SS750**



**HBL77CM16W**

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## Features and Benefits

### 100 Amp Pin and Sleeve Devices

- Hubbell Marine was the first to offer 100 amp marine grade devices that are considered second to none
- Hubbell developed the standard for 100 amp Pin and Sleeve devices with the National Electric Code and the American Boat and Yacht Council



**M4100P12**



**M4100R12**



#### Housing Design

- Supertough nylon housing provides increased safety and abuse resistance
- High visibility yellow, STOW cable, 105°C rated and UL listed
- The gasketed locking ring engages the mating device and when rotated and locked makes the interface between the devices watertight



#### Housing Design

- Nylon housing provides increased safety and resistance
- The gasketed, self-closing cover is keyed to normally seat in a position that provides a weatherproof seal; simply rotating the cover and locking it makes it watertight
- The device is marked with its catalog number and rating for easy identification



#### Interior Design

- High impact thermoset contact carrier is arcing and heat resistant
- Two screw pressure terminals provide reliable terminations
- Nickel plated solid brass pins provide for long life and reliable electrical contact in corrosive environments
- Special keying makes proper alignment of mating devices quick and easy



#### Interior Design

- High impact thermoset contact carrier is arcing and heat resistant
- The terminals are clearly identified with large markings for easy recognition
- Nickel plated solid brass contacts provide for long life and reliable electrical contact in corrosive environments
- Special keying makes proper alignment of mating devices quick and easy



#### Exterior Design

- Massive external cable grips protect the wiring from conductor movement which can cause strain on the terminals
- All screws are stainless steel for corrosion resistance
- The device is marked with its catalog number and rating for easy identification



# Marine Products

## Features and Benefits

### 100 Amp Cable Sets

- Only Hubbell offers 3, 4 and 5 wire 100 amp cable sets for your shore power requirements
- Cable sets manufactured in factory-controlled conditions using specially compounded cable to accommodate a full 100 amperes



Note: Cable sets must be fully extended before using.

**IP56**  
SUITABILITY



100A  
125/250V AC



100A 3ØY  
120/208V AC

### 100A Pin and Sleeve Cable Sets

Description	Catalog Number	
Yellow 75 ft. (22.8m) corrosion-resistant shore power cable set, 105°C rated, #2 AWG, (no neutral), STOW cable with plug and connector body for use with boats with isolation transformer on board.	<b>CS75IT4*</b>	<b>CS75IT5</b>
Same as above except 100 ft. (30.4m) in length.	<b>CS100IT4</b>	<b>CS100IT5</b>
Yellow 75 ft. (22.8m) corrosion-resistant shore power cable set, 105°C rated, #2 AWG, STOW cable.	<b>CS754</b>	—
Same as CS754/5 except 100 ft. (30.4m) in length.	<b>CS1004</b>	—
Yellow 50 ft. (15.2m) corrosion-resistant extension cord, 105°C rated, #2 AWG, STOW cable. For mating with existing shore power cable set.	<b>CS50EXT4</b>	<b>CS50EXT5</b>
Yellow 75 ft. (22.8m) corrosion-resistant one-ended (male only) power supply cable, 105°C rated, #2 AWG, STOW cable with 3 pole 4 wire male plug only; for use with boats using a cable winch system.	<b>CW754</b>	—
Yellow 100 ft. (30.4m) corrosion-resistant one-ended (male only) power supply cable, 105°C rated, #2 AWG, (no neutral) STOW cable with male plug only; for use with boats with isolation transformer on board and a cable winch system.	<b>CW100IT4</b>	<b>CW100IT5</b>
Same as CW100IT4/5 except 125 ft. (38.0m) in length.	<b>CW125IT4</b>	<b>CW125IT5</b>
Same as CW100IT4/5 except white in color.	<b>CW100IT4W</b>	—



CS75IT4  
CS100IT4



CS100IT4W

Note: Periodic cleaning and lubrication (such as LPS-1® made by Holt Lloyd Corp.) of the pins and sleeves of these devices is necessary to enjoy years of optimal use.  
\*Also available in white, consult factory.



## 100A Ship-to-Shore Devices



M4100P12



M4100R12



M4100C12



M4100B12R



M4100C12R



FW60100



BB1001W  
BB1002W

Dimensions in Inches (mm)

### 100A 125/250V Pin and Sleeve Devices

Description	Catalog Number
Yellow Zytel® super tough nylon watertight plug has gasketed locking ring to make plug/receptacle interface watertight. Cord grip range is 1.06–1.94 in. (26.9–49.3). <b>IP56 SUITABILITY.</b>	M4100P12
Gray nylon docksides receptacle has gasketed, spring-loaded cover. Closes automatically when not in use and is watertight when securely fastened. Mounting holes are 4.88 in. (123.8) on centers. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	M4100R12
Yellow Zytel® super tough nylon watertight connector body for mating plug to connector interface on extension cords or adapters. Cord grip range is 1.06–1.94 in. (26.9–49.3). Note: It cannot be mated to the shore power inlet. <b>IP56 SUITABILITY.</b>	M4100C12
Gray nylon shore power inlet has gasketed, spring-loaded cover which closes automatically when not in use and is watertight when securely fastened. Mounting holes are 4.88 in. (123.8) on centers and rear portion has 3.94 in. (100.0) diameter. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	M4100B12R
Yellow Zytel® super tough nylon watertight connector body has gasketed locking ring to make inlet/connector interface watertight. Cord grip range is 1.06–1.94 in. (26.9–49.3). Note: This device mates with shore power inlet only. <b>IP56 SUITABILITY.</b>	M4100C12R

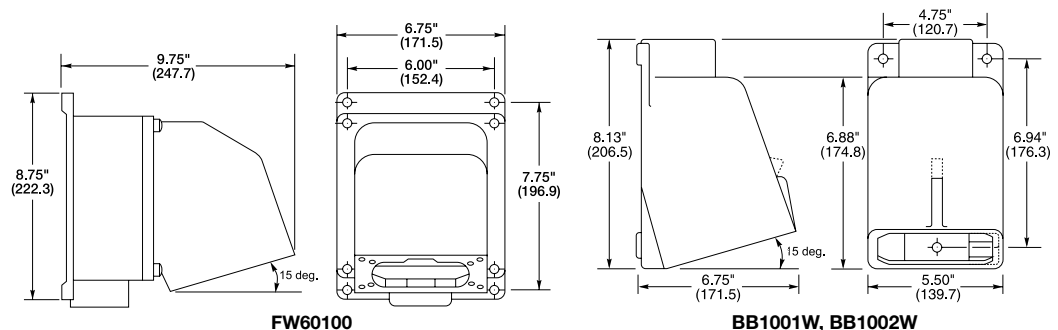


### 100A Back Boxes and Accessories

Description	Catalog Number
Back box for inlets and receptacles has 15° angle section which can be installed in any of 4 positions. Box is cast aluminum with corrosion-resistant gray alkyd-based enamel finish and 1½ in. NPT hub which can be mounted for either top or bottom feed. <b>IP56 SUITABILITY.</b>	FW60100
15° angle cast aluminum back box has corrosion-resistant gray finish and top hub with 1½ in. NPT 100A receptacles can be mounted directly to it.	BB1001W
Same as BB1001W except threaded top hub is 2 in. NPT.	BB1002W
15° angle non-metallic back box, made of high-grade engineered thermoplastic Valox® to resist chemicals, abuse and U.V. rays. Has integral grounding plate, 1½ in. NPT hub size and 120 cu. in. capacity (hub is not included - Raco part number 1706 is recommended). <b>IP57 SUITABILITY.</b>	BB100N
Closure Cap for 100A plugs and connector bodies that (do not have a cap attached) have locking rings.	PC100
Replacement lift cover assembly; includes cover, arm and assembly tool.	CA100
Replacement locking ring and cord clamp.	CC100
Replacement locking ring only.	LR100

Note: Periodic cleaning and lubrication (such as LPS-1® made by Holt Lloyd Corp.) of the pins and sleeves of these devices is necessary to enjoy years of optimal use.

### Product Dimensions Inches (mm)



Zytel® is a registered trademark of E.I. DuPont.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## 100A 3ØY 120/208V and 3ØY 277/480V Devices



Description	Catalog Number	
Yellow Zytel® super tough nylon watertight plug has gasketed locking ring to make plug/receptacle interface watertight. Cord grip range is 1.06–1.94 in. (26.9–49.3). <b>IP56 SUITABILITY.</b>	<b>M5100P9</b>	<b>M5100P7</b>
Gray nylon dockside receptacle has gasketed, spring-loaded cover. Closes automatically when not in use and is watertight when securely fastened. Mounting holes are 4.88 in. (123.8) on centers. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	<b>M5100R9</b>	<b>M5100R7</b>
Yellow Zytel® super tough nylon watertight connector body for making plug to connector interface on extension cords or adapters. Cord grip range is 1.06–1.94 in. (26.9–49.3). Note: It cannot be mated to the shore power inlet. <b>IP56 SUITABILITY.</b>	<b>M5100C9</b>	<b>M5100C7</b>
Gray nylon shore power inlet has gasketed, spring-loaded cover which closes automatically when not in use and is watertight when securely fastened. Mounting holes are 4.88 in. (123.8) on centers and rear portion has 3.94 in. (100.0) diameter. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	<b>M5100B9R</b>	<b>M5100B7R</b>
Yellow Zytel® super tough nylon watertight connector body has gasketed locking ring to make inlet/connector interface watertight. Cord grip range is 1.06–1.94 in. (26.9–49.3). Note: This device mates with shore power inlet only. <b>IP56 SUITABILITY.</b>	<b>M5100C9R</b>	<b>M5100C7R</b>



M5100P9



M5100R9



M5100C9



M5100B9R



M5100C9R



BB100N



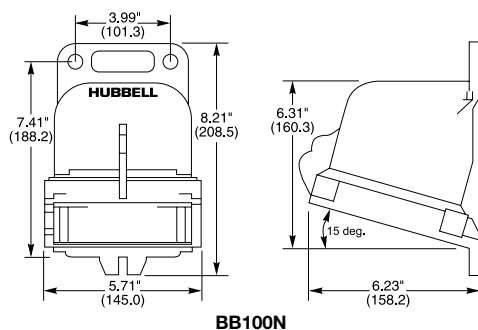
PC100

## 100A Back Boxes and Accessories

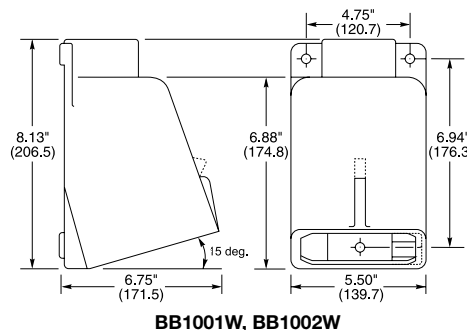
Description	Catalog Number
Back box for inlets and receptacles has 15° angle section which can be installed in any of 4 positions. Box is cast aluminum with corrosion-resistant gray alkyd-based enamel finish and 1½ in. NPT hub which can be mounted for either top or bottom feed. <b>IP56 SUITABILITY.</b>	<b>FW60100</b>
15° angle cast aluminum back box has corrosion-resistant gray finish and top hub with 1½ in. NPT 100A receptacles can be mounted directly to it.	<b>BB1001W</b>
Same as BB1001W except threaded top hub is 2 in. NPT.	<b>BB1002W</b>
15° angle non-metallic back box, made of high-grade engineered thermoplastic Valox® to resist chemicals, abuse and U.V. rays. Has integral grounding plate, 1½ in. NPT hub size and 120 cu. in. capacity (hub is not included - Raco part number 1706 is recommended). <b>IP57 SUITABILITY.</b>	<b>BB100N</b>
Closure Cap for 100A plugs and connector bodies that (do not have a cap attached) have locking rings.	<b>PC100</b>
Replacement lift cover assembly; includes cover, arm and assembly tool.	<b>CA100</b>
Replacement locking ring and cord clamp.	<b>CC100</b>
Replacement locking ring only.	<b>LR100</b>

Note: Periodic cleaning and lubrication (such as LPS-1® made by Holt Lloyd Corp.) of the pins and sleeves of these devices is necessary to enjoy years of optimal use.

## Product Dimensions Inches (mm)



BB100N



BB1001W, BB1002W

Zytel® is a registered trademark of E.I. DuPont.  
Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

Dimensions in Inches (mm)

## Features and Benefits

### 200 Amp Pin and Sleeve Devices

Hubbell was the first to offer a UL listed 100 amp Marine Ship-To-Shore System... and now, we are the first to offer a UL listed 200 amp Marine Ship-To-Shore System.

The only 200 amp rated Ship-to-Shore System - built specifically for Mega-Yachts.

Hubbell 200 amp devices are listed to UL1682 and UL Classified for the mating and operation of 200 amp devices. Mates with Cooper® Crouse-Hinds® Arktite® or Appleton® Powertite® (when installed in accordance with instructions furnished with device).



#### Housing Design

- Pins and Sleeves are made of nickel-plated Tellurium copper for superior corrosion and heat resistance
- UL Listed and CSA Certified



#### Housing Design

- Housing is made of copper-free aluminum with an electrostatically applied epoxy/polyester finish
- Type 3, 4, 4X Rated per UL50 standard for superior water resistance



#### Interior Design

- Interchangeable with other "UL1686 Series C1" Listed devices
- Terminal screws feature swivel/pressure pads to secure and prevent damage to conductors strands



#### Interior Design

- Interchangeable with other "UL1686 Series C1" Listed devices
- Terminal screws feature swivel/pressure pads to secure and prevent damage to conductors strands



#### Exterior Design

- Cable clamp captures cable at four points, provides superior retention
- Accepts a cord range of #1 AWG – 250 MCM

Appleton® and Powertite® are registered trademarks of Appleton Electric Company.  
Cooper Crouse-Hinds® and Arktite® are registered trademarks of Cooper Industries, Inc.

## 200A Ship-to-Shore Devices



200A  
600V AC/250V DC

### 200A 600V AC/250V DC, 50-400 Hertz Pin and Sleeve Devices

Description	Catalog Number
Gray metallic, watertight boatside power inlet with wingnut-secured lid for water tightness when not in use.	<b>M5200BS1R</b>
Gray/yellow metallic, watertight boatside connector body with locking ring to make inlet/connector body interface watertight. Cord grip range is #1 AWG-250 MCM 1.00-2.5 in. (25.4-6.35).	<b>M5200CS1R</b>
Gray/yellow metallic, watertight dockside plug with locking ring to make plug/receptacle interface watertight. Cord grip range is #1 AWG-250 MCM 1.00-2.5 in. (25.4-6.35).	<b>M5200PS1</b>
Gray metallic, watertight dockside receptacle with wing nut-secured lid for water tightness when not in use.	<b>M5200RS1</b>
Gray/yellow metallic, watertight dockside connector body with wing nut-secured lid for water tightness when not in use. For making plug/connector body interface on extension cords or adapters.	<b>M5200CS1</b>



**M5200BS1R**



**M5200CS1R**



**M5200PS1**



**M5200RS1**



**M5200CS1**

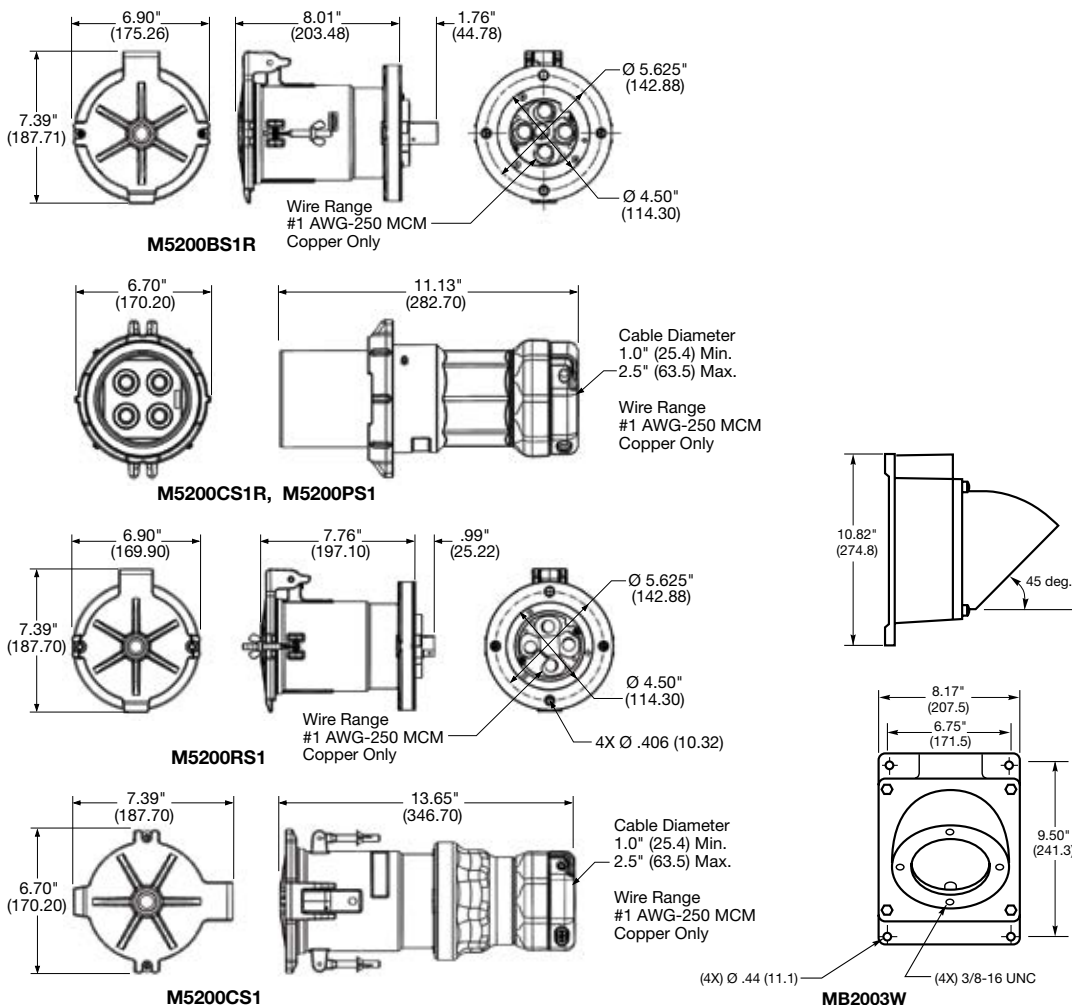


**MB2003W**

### 200A Back Boxes

Description	Catalog Number
Gray metallic back box for inlets and receptacles has 45° angle section which can be installed in any of 4 positions, 2 in. NPT hub.	<b>MB2003W</b>
Gray metallic back box – same as above but 2½ in. NPT hub.	<b>MB2004W</b>

### Product Dimensions Inches (mm)



Dimensions in Inches (mm)



## Features and Benefits

### Internationally Rated Conventional-Styled Devices

Hubbell offers the only CE certified electrical shore power systems truly dedicated for boats destined for Europe and the International community. Hubbell's offering of international shore power inlets are available in traditional 316 stainless steel and attractive white non-metallic types resembling our domestic offering in style and appearance but are not interchangeable with the domestic shore power system.

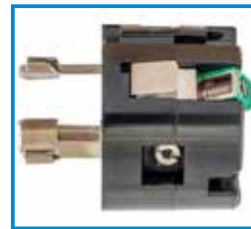
Utilizing standard NEMA (National Electrical Manufacturer's Association) configurations not typically used in the marine market, Hubbell can offer a safe and non-interchangeable 16 amp 230 volt system and 32 amp 230 volt system for use with 50 cycle systems. The system includes white power supply cables (one-end, female only) in both the 16 amp and 32 amp categories.

Hubbell also offers a series of Internationally Rated Pin and Sleeve Devices, available in 16A, 32A and 63A 240V, these devices are interchangeable with other manufactures of UL1686 C1 devices.



#### Housing Design

- Base and cover are #316 type stainless steel for strength and corrosion resistance
- Self-closing cover is friction tight to remain open while engaging cable set and shields the interior from the elements when the inlet is not in use



#### Interior Design

- Contact blades are nickel plated brass for corrosion resistance
- Watertight seal when in use, threaded base mates to the threaded ring of the watertight cover on the connector body; when not in use, it mates to the threaded cover



#### Housing Design

- White Centrex® cover and Valox® base, weatherproof when closed
- Easy to wire polycarbonate interior is heat resistant and clear for visual inspection (16 amp and 32 amp)



#### Terminations (63 Amp)

- Thermoset contact carrier is arcing and heat resistant
- Three screws "lock-in" the interior once it is in place
- Rear enclosure is nickel plated for corrosion resistance

### Internationally Rated Pin and Sleeve Devices, 16A, 32A or 63A, 240V, 2 Pole Plus Earth (≍)

**IP66**  
SUITABILITY

Description	16A 240V	32A 240V	63A 240V
Shore power inlet with mounting holes 3.13 in. (79.3) on centers and 2.72 in. (69.1) diameter on rear portion.	<b>HBL316B6W</b>	<b>HBL332B6W</b>	<b>HBL363B6W</b>
Connector body with cord grip range of .36-.83 in. (9.1-21.1).	<b>HBL316C6W</b>	<b>HBL332C6W</b>	<b>HBL363C6W</b>
Shore power receptacle with mounting holes 3.13 in. (79.3) on centers and 2.72 in. (69.1) diameter on rear portion.	<b>HBL316R6W</b>	<b>HBL332R6W</b>	<b>HBL363R6W</b>
Plug with cord grip range of .36-.83 in. (9.1-21.1).	<b>HBL316P6W</b>	<b>HBL332P6W</b>	<b>HBL363P6W</b>
Closure plug for HBL316B6W.	<b>PC320*</b>	<b>PC3430*</b>	<b>PC60*</b>
Back box for inlets and receptacles is cast aluminum with corrosion-resistant alkyd-based enamel finish and two ¼ in. NPT hubs.	<b>BB201W</b>	<b>BB301W</b>	<b>BB601W</b>
Feed-thru box for inlets and receptacles is cast aluminum with corrosion-resistant alkyd-based enamel finish and one ¼ in. NPT hubs.	<b>FT202W</b>	—	<b>FW60100</b>

Note: \*Not CSA Certified.

Centrex® is a registered trademark of LANXESS Corporation.  
Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.





# Marine Products

## Internationally Rated Conventional-Styled Devices

### Twist-Lock® Devices, Ship-To-Shore Power System

Description	16A 230V	32A 230V, 50 Cycle
Non-metallic, white, stylized, UV resistant shore power inlet. White Centrex® cover makes the inlet weatherproof when closed. Mounting holes are 2.38 in. (60.3) on centers and match most existing mounting patterns. Rear enclosure strain/relief cap is provided. <b>IP55 SUITABILITY.</b>	<b>HBL316NM</b>	<b>HBL332NM</b>
Traditional, stainless steel shore power inlet has easy-to-wire terminations. Interior is transparent for quick and easy visual inspection. Interior is shielded from the elements by a gasketed, self-closing cover, watertight when cover is screwed in place. Mounting holes are 2.38 in. (60.3) on centers. Mounting screws and gasket included. Protective rear enclosure/strain relief also included. <b>IP56 SUITABILITY.</b>	<b>HBL316SSX</b>	<b>HBL332SSX</b>
25 ft. (7.6m) white, vinyl jacketed power supply cord with female (boat side) end only; other end blunt cut. <b>IP56 SUITABILITY.</b>	<b>HBL316CSW25</b>	—
50 ft. (15.2m) white, vinyl jacketed power supply cord with female (boat side) end only; other end blunt cut.	<b>HBL316CSW</b>	<b>HBL332CSW</b>
Yellow locking connector replacement end for HBL316CSW25 and HBL316CSW. <b>IP20 SUITABILITY.</b>	<b>HBL316CRCX</b>	<b>HBL332CRCX</b>
White Seal-Tite® cover with threaded sealing ring for use with HBL316CRC and HBL332CRC connector bodies. <b>IP56 SUITABILITY.</b>	<b>HBL60CM33W</b>	<b>HBL60CM33W</b>
White Seal-Tite® cover with threaded sealing ring for use with HBL316CRC and HBL332CRC connector bodies. <b>IP56 SUITABILITY.</b>	<b>HBL60CM33</b>	<b>HBL60CM33</b>



**HBL316NM  
HBL332NM**



**HBL316SSX  
HBL332SSX**



**HBL316CRCX  
HBL332CRCX**



**HBL316CSW25  
HBL316CSW  
HBL332CSW**



**HBL60CM33  
HBL60CM33W**



**63A  
230V**



**HBL363SSX**

**HBL363CRP**



**HBL363CRR**

### 63A 230V Ship-To-Shore Power Systems

Description	Catalog Number
Traditional, stainless steel shore power inlet, including higher-quality metal threads, heat-resistant thermoset interior and box lug terminals. <b>IP56 SUITABILITY.</b>	<b>HBL363SSX</b>
Nickel plated brass plug with heat-resistant thermoset interior and box lug terminals cord grip range is .44 – 1.14 in. (11.1 - 29.0). <b>IP55 SUITABILITY.</b>	<b>HBL363CRP</b>
Nickel plated brass connector body with heat-resistant thermoset interior and box lug terminals. Cord grip range is .44 – 1.14 in. (11.1 - 29.0). <b>IP55 SUITABILITY.</b>	<b>HBL363CRC</b>
Single receptacle with heat-resistant thermoset base. <b>IP20 SUITABILITY.</b>	<b>HBL363CRR</b>
Yellow Seal-Tite® cover for connector bodies when used with 63A shore power inlets. Stainless steel threaded sealing ring makes connections watertight. <b>IP56 SUITABILITY.</b>	<b>HBL77CM15</b>
Same as HBL77CM15 except white in color.	<b>HBL77CM15W</b>
Yellow Seal-Tite® cover for 63A plugs. <b>IP55 SUITABILITY.</b>	<b>HBL77CM16</b>
Same as HBL77CM16 except white in color.	<b>HBL77CM16W</b>



**HBL77CM15**



**HBL77CM16W**



**HBL363CRR**

Centrex® is a registered trademark of LANXESS Corporation.

# Marine Products

## Features and Benefits

### Intelligent Y Adapters

**YQ230** - Safely powers a 50A 125/250V AC boat from two 30A 125V AC receptacles at dockside.\*

**Problem:** A boat owner with one electrical system on board docks in a marina that can only provide a different electrical system.

**Solution:** Use of the Hubbell YQ series of Intelligent Adapters can correct many electrical system mismatches.

Note: \*The two 30 amp receptacles must be on separate phases to function.



#### Housing Design

- Rugged UV resistant high-impact housing
- Environmentally sealed against humidity, fog and rain
- Cord clamps prevent strain on terminals
- Sealing grommets keep moisture out



#### Safety

- Safety indicator light, (when ON, safe operation is indicated)
- 3 pole contactor breaks both hots and neutrals to prevent possibility of "live" plug when not engaged

### Intelligent Y Adapters

Description	Catalog Number
Adapter that permits use of 50A 125/250V AC cable set. (HBL61CM52), with two 30A 125V AC receptacles, HBL26CM10.	<b>YQ230</b>
Adapter that permits use of 100A 125/250V AC cable set. (CS754, CS1004) with one or two 50A 125/250V AC receptacles, HBL63CM69.	<b>YQ100PLUS</b>

Note: The YQ230 Adapter will only work with two 30A receptacles that are on different phases.

The YQ100PLUS Adapter must be plugged into two 50A 125/250V AC receptacles that are on the same phase to achieve 100 amp, 125/250 volts power — or the "A" leg 50A male can be plugged into a single 50A 125/250V AC receptacle to achieve 50 amp, 125/250 volts power.

### Intelligent Y Adapters

**YQ100PLUS** - Safely powers a 100A 125/250V AC boat from two 50A 125/250V AC receptacles at dockside -or- from a single 50A 125/250V AC receptacle acting as a single adapter.

#### Internal Logic Senses That:

- Both plugs are fully engaged (i.e., one is not dangling loose while the other is plugged in) -or- the "A" leg plug is engaged to access a single 50A 125/250V receptacle
- The polarity of the receptacle on the dock is correct (i.e., no mis-wiring of the hot and neutral wires)
- The two receptacles are from correct phases

**CAUTION: This adapter must be connected to an onboard, center-tapped isolation transformer or shore power converter. DO NOT USE this adapter if such a transformer or converter is not available.**



#### Housing Design

- Rugged, smaller, lighter-weight enclosure
- Environmentally sealed against humidity, fog and rain
- Sealing grommets keep moisture out



#### Safety

- Indicator lights indicate correct polarity and safe operation
- "A" leg for accessing a single 50A 125/250V receptacle

# Marine Products

## Features and Benefits

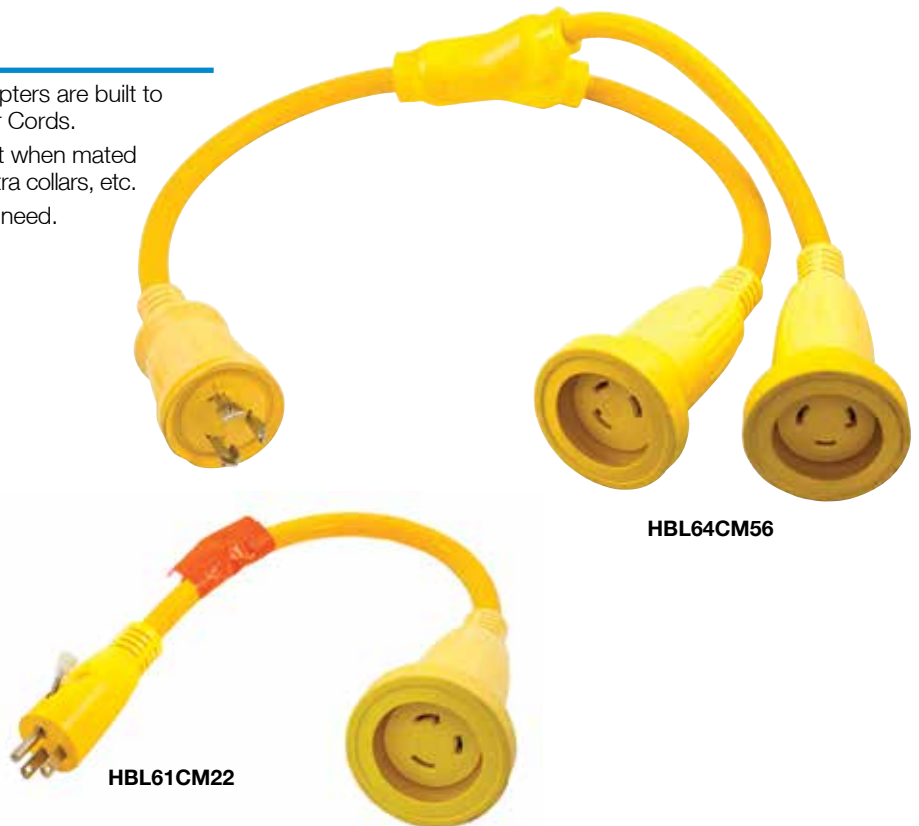
### Hubbell Molded Adapters

Hubbell Straight Adapters (pigtails) and “Y” Adapters are built to the same standards as all Hubbell Shore Power Cords.

Filled with end-to-end features and weathertight when mated with Hubbell shore cords without the need for extra collars, etc.

Hubbell Marine Adapters deliver the power you need.

- Available in a variety of configurations
- Now CSA Compliant



#### Housing Design

- Fully molded fittings (except 100A) for superior waterproofing and durability
- Hubbell adapters are weatherproof when mated with Hubbell cable sets



#### Interior Design

- Terminations utilize exclusive copper crimp barrel terminations, holds over 300% more securely
- Bull ring for strain relief on the terminals
- Nickel plated brass contact blades for corrosion-resistance



#### Safety

- Provides 15 amp convenience power with GFCI protection
- Manual reset button
- High impact PVC housing, UV stabilized
- Sealed GFCI housing and keypad
- Large LED power “ON” light



#### Cord Flexibility

- Molded-in flex feature controls the angle of cord entry and keeps water out
- Jute fillers inside jacket for maximum cable flexibility; Hubbell cable coils neater, lighter and lays flatter

## Adapter Selection Guide

Boat/Cable Set Side Connector Body (Female End)	Molded Straight Adapters		Power Center/Dock Side Plug (Male End)
15A 125V, 2P 3W Straight Blade with GFCI protection		<b>HBL105GF</b>	30A 125V, 2P 3W Twist-Lock®
30A 125V, 2P 3W Twist-Lock		<b>HBL61CM22</b> <b>HBL61CM22W</b>	15A 125V, 2P 3W Straight Blade (lock type)
30A 125V, 2P 3W Twist-Lock		<b>HBL61CM25</b>	20A 125V, 2P 3W Twist-Lock
50A 125V, 2P 3W Twist-Lock		<b>HBL61CM54</b>	15A 125V, 2P 3W Straight Blade
30A 125V, 2P 3W Twist-Lock		<b>HBL61CM55</b>	50A 125V, 2P 3W Twist-Lock
50A 125V, 2P 3W Twist-Lock		<b>HBL61CM56</b>	30A 125V, 2P 3W Twist-Lock
30A 125V, 2P 3W Twist-Lock		<b>HBL61CM71</b>	50A 125/250V, 3P 4W Twist-Lock
50A 125V, 2P 3W Twist-Lock		<b>HBL61CM72</b>	50A 125/250V, 3P 4W Twist-Lock
100A 125/250V, 3P 4W Pin and Sleeve		<b>HBL61CM100</b>	50A 125/250V, 3P 4W Twist-Lock
<b>Molded Y Adapters</b>			
(2) 30A 125V, 2P 3W Twist-Lock		<b>HBL64CM54</b>	50A 125/250V, 3P 4W Twist-Lock
(2) 50A 125V, 2P 3W Twist-Lock		<b>HBL64CM55</b>	50A 125/250V, 3P 4W Twist-Lock
(2) 30A 125V, 2P 3W Twist-Lock		<b>HBL64CM56</b>	30A 125V, 2P 3W Twist-Lock
(2) 30A 125V, 2P 3W Twist-Lock		<b>HBL64CM57</b>	50A 125V, 2P 3W Twist-Lock
<b>One Piece Adapters</b>			
30A 125V, 2P 3W Twist-Lock		<b>HBL31CM28</b>	15A 125V, 2P 3W Straight Blade
15 or 20A 125V, 2P 3W Straight Blade		<b>HBL31CM29</b>	30A 125V, 2P 3W Twist-Lock
20A 125V, 2P 3W Twist-Lock		<b>HBL21CM28</b>	15A 125V, 2P 3W Straight Blade
15 or 20A 125V, 2P 3W Straight Blade		<b>HBL21CM29</b>	20A 125V, 2P 3W Twist-Lock

Note: See page Y-27 for features and benefits.  
See page Y-29 for photographs and descriptions.



## Molded Adapters

### Molded Straight Adapters – Now CSA Compliant

Description	Catalog Number
Permits use of 20A 125V Twist-Lock® locking type plug with 15 or 20A 125V straight blade receptacle. <b>IP20 SUITABILITY.</b>	<b>HBL21CM28*</b>
Permits use of 15A or 20A 125V straight blade plug with 20A 125V Twist-Lock locking type receptacle. <b>IP20 SUITABILITY.</b>	<b>HBL21CM29*</b>
Permits use of 30A 125V Twist-Lock locking type plug with 15 or 20A 125V straight blade receptacle. <b>IP20 SUITABILITY.</b>	<b>HBL31CM28</b>
Permits use of 15A or 20A 125V straight blade plug with 30A 125V Twist-Lock locking type receptacle. <b>IP20 SUITABILITY.</b>	<b>HBL31CM29</b>
Permits use of 30A 125V cable set, HBL61CM08 with 15 or 20A 125V straight blade receptacle. Anchor locking screw on plug when screwed down resists pullout of the cable set. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM22</b>
Same as HBL61CM22, except white.	<b>HBL61CM22W</b>
Permits use of 30A 125V cable set, HBL61CM08 with 20A 125V Twist-Lock receptacle, HBL23CM10. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM25</b>
Permits use of 50A 125V cable set, HBL61CM53 with 15 or 20A 125V straight blade receptacle. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM54</b>
Permits use of 30A 125V cable set, HBL61CM08 with 50A 125V Twist-Lock receptacle, HBL63CM70. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM55</b>
Permits use of 50A 125V cable set, HBL61CM53 with 30A 125V Twist-Lock receptacle, HBL26CM10. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM56</b>
Permits use of 30A 125V cable set, HBL61CM08 with 50A 125/250V Twist-Lock receptacle, HBL63CM69. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM71^</b>
Permits use of 50A 125V cable set, HBL61CM53 with 50A 125/250V Twist-Lock receptacle, HBL63CM69. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM72^</b>
Permits use of 15A 125V 3 wire straight blade plug with 15 or 20A 125V 2 wire straight blade receptacle. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL5273L*</b>
Permits a 100A 125/250V cable set to plug into a single 50A 125/250V outlet. <b>IP55 SUITABILITY (CONNECTOR).</b>	<b>HBL61CM100**</b>
Permits use of 15A straight blade plug with 30A 125V Twist-Lock receptacle; with GFCI protection. <b>IP55 SUITABILITY (PLUG).</b>	<b>HBL105GF**</b>



HBL31CM28



HBL21CM29



HBL61CM22



HBL61CM25



HBL61CM56



HBL61CM100



HBL105GF

### Molded Y Adapters – Now CSA Compliant

Description	Catalog Number
Permits use of two 30A 125V cable sets, HBL61CM08, with one 50A 125/250V receptacle, HBL63CM69. <b>IP55 SUITABILITY (CONNECTORS).</b>	<b>HBL64CM54</b>
Permits use of two 50A 125V cables sets, HBL61CM53, with one 50A 125/250V receptacle, HBL63CM69. <b>IP55 SUITABILITY (CONNECTORS).</b>	<b>HBL64CM55</b>
Permits use of two 30A 125V cable sets, HBL61CM08, with one 30A 125V receptacle, HBL26CM10. <b>IP55 SUITABILITY (CONNECTORS).</b>	<b>HBL64CM56</b>
Permits use of two 30A 125V cable sets, HBL61CM08, with one 50A 125V receptacle, HBL63CM70. <b>IP55 SUITABILITY (CONNECTORS).</b>	<b>HBL64CM57**</b>

Note: \*UL Listed.

\*\*Not CSA Certified.

^ The male plug end (50A 125/250V) has a blade removed and the blade slot filled with epoxy. Omitting the blade ensures achieving 125V safely.

Adapters do not provide overcurrent protection and do not provide GFCI protection except HBL105GF.



HBL64CM54



HBL64CM55



HBL64CM56



HBL64CM57



## Telephone and Cable TV Devices



**HBLPHTVNM**



**HBLPHTVSS**



**HBLTVSS**



**PH6625**



**PH6624**



**PH7440**

### Telephone and Cable TV Ship-to-Shore Devices

Description	Catalog Number
Stylized non-metallic inlet provides telephone and cable TV connections in one unit. UV resistant white Centrex® cover makes unit weatherproof when completely closed. Mounting holes are 2.38 in. (60.3) on centers and match existing mounting patterns. Mounting screws and gasket provided. <b>IP55 SUITABILITY.</b>	<b>HBLPHTVNM</b>
Traditional stainless steel inlet provides connections for telephone and cable TV in one unit. Connections can be used individually or together. Gasketed cover is self-closing so interior is shielded from the elements when not in use. Watertight when cover is screwed in place. Mounting holes are 2.38 in. (60.3) on centers. Mounting screws and gasket included. <b>IP56 SUITABILITY.</b>	<b>HBLPHTVSS</b>
Same as HBLPHTVSS above except no phone.	<b>HBLTVSS</b>
Replacement int. for PH6594TV and HBLPHTVSS series inlets.	<b>CR16914</b>
Black locking type plug for telephone cable sets or adapters.	<b>PH6625</b>
Black locking type connector body used on telephone cable sets or adapters.	<b>PH6624</b>
Yellow Seal-Tite® cover for weatherproofing PH6624 connector body on cable sets when connecting to an inlet and for weather-proofing PH6625 plug. <b>IP20 SUITABILITY.</b>	<b>PH7440</b>
Yellow Seal-Tite cover for weatherproofing PH6624 connector body when used on extension cords or adapters. <b>IP55 SUITABILITY.</b>	<b>PH7499</b>
Factory pre-wired 50 ft. (15.2m) telephone cable set. Uses 3 conductor, #16 AWG type SJTO, yellow vinyl cord for marine and recreational vehicle applications. <b>IP20 SUITABILITY.</b>	<b>PH6599</b>
Same as PH6599 except white in color.	<b>PH6599W</b>
Same as PH6599 except 25 ft. (7.6m) in length.	<b>PH6598</b>
Same as PH6598 except white in color.	<b>PH6598W</b>



**PH6599**  
**PH6599W**  
**PH6598**  
**PH6598W**

Centrex® is a registered trademark of LANXESS Corporation.

# Marine Products

## Telephone and Cable TV Devices

### Telephone and Cable TV Ship-to-Shore Devices

Description	Catalog Number
Black polycarbonate combination telephone/TV outlet with spring-loaded weatherproof lift cover. Can be wired for telephone service only or for telephone and MATV/CATV services in one FS/FD box in both marinas and RV parks. Can be padlocked to prevent unauthorized use. <b>IP44 SUITABILITY.</b>	<b>PH6597TV</b>
Black polycarbonate cable TV outlet has coax connector and gasketed, spring-loaded lift cover for weatherproofing. Designed for mounting to FS/FD type weatherproof boxes (like PH6619) in both marinas and RV parks. <b>IP20 SUITABILITY.</b>	<b>TV97</b>
Black polycarbonate telephone outlet has gasketed, spring-loaded lift cover for weatherproofing. Designed for mounting to FS/FD type weatherproof boxes (like PH6619) in both marinas and RV parks. <b>IP20 SUITABILITY.</b>	<b>PH6597</b>
Black polycarbonate telephone outlet has gasketed, spring-loaded lift cover for weatherproofing. Can be used to retrofit old style telephone outlets of Pauluhn Manufacturing Company (2833 and 2843) in both marinas and RV parks. <b>IP20 SUITABILITY.</b>	<b>PH6596</b>
Black polycarbonate RV inlet for telephone connection only. Has spring-loaded, gasketed weatherproof lift cover designed for mounting to FS/FD type weatherproof boxes. <b>IP20 SUITABILITY.</b>	<b>PH6595</b>
Black non-metallic FS box with 3/4 in. threaded hubs used for mounting phone and TV outlets and PH6595 recreational vehicle inlet (see PH6621 for mounting box on recreational vehicle). Cord connector included for strain relief and to maintain watertight integrity of box when cable is used. PVC adapter also included for connection of PVC conduit to box.	<b>PH6619</b>
Stainless steel bracket for mounting PH6619 FS box to recreational vehicles when used with PH6595 inlet.	<b>PH6621</b>
50 ft. (15.2m) yellow jacketed ship-to-shore TV cable set is the industry standard 75 Ohm, RG59-U with male plugs on both ends. Adapter included for a quick, slip-on connection to inlet on boat.	<b>TV99</b>
Same as TV99 except white in color.	<b>TV99W</b>
Same as TV99 except 25 ft. (7.6m) in length.	<b>TV98</b>
Same as TV98 except white in color.	<b>TV98W</b>



PH6597TV



TV97



PH6597



PH6596



PH6595



PH6619



TV99  
TV99W  
TV98  
TV98W

## 30 Amp 28 Volt DC Rated

### Electric Fishing Reel Devices

Hubbell has a DC rated electrical system designed specifically for larger electric fishing reel systems. Up until now, larger electric fishing reel systems typically utilized conventional 30 Amp AC rated devices since an appropriately rated DC system was not available.

The system features a corrosion-resistant plug, connector body and receptacle and can be used along with a Hubbell outlet box and weatherproof cover plate to complete the installation. These devices are all rated at 28 Volt DC and are applicable for all 12, 24 and 32 Volt DC fishing reel systems. The devices are UL listed and CSA certified. All devices are made of high-visibility yellow nylon that is impact resistant and UV stabilized for longer life. Also, the contacts are nickel plated for corrosion resistance.



**HBL328DCR**



**HBL328DCP**



**HBL328DCC**



**HBL60CM83A**



**HBL6080S**



**HBL74CM25WOA**



**HBL74CM25WOAW**

### 30A 28V DC Rated Devices

Description	Catalog Number
Yellow locking single receptacle with abuse-resistant face. Can be mounted in Hubbell box HBL6083 and used with HBL74CM25WOA weatherproof plate.	<b>HBL328DCR</b>
Yellow locking plug has rugged nylon housing and rear dust seal to keep dust and foreign matter out.	<b>HBL328DCP</b>
Yellow locking connector body has rugged, nylon housing and rear dust seal to keep dust and foreign matter out.	<b>HBL328DCC</b>

### Accessories

Description	Catalog Number
Gray, high-impact thermoplastic FD (deep) weatherproof box with 3/4 in. (19.1) NPT threaded hub, with 30 cubic inch capacity.	<b>HBL6083</b>
Same as HBL6083 except yellow in color.	<b>HBL60CM83A</b>
Same as HBL6083 except white in color.	<b>HBL60CM83WA</b>
Black phenolic type FS (shallow) weatherproof box has two 3/4 in. (19.1) I.P.S. molded-in knockouts. 4.56 in. H x 2.94 in. W x 2.19 in. D (115.9H x 74.6W x 55.6D) and has 16 cubic inch capacity.	<b>HBL6080S</b>
Spring-loaded lift cover, for weatherproofing HBL328DCR outlet. Yellow in color.	<b>HBL74CM25WOA</b>
Same as HBL74CM25WOAW except white in color.	<b>HBL74CM25WOAW</b>
Same as HBL74CM25WOAW except gray in color.	<b>HBL7425WOA</b>

*Note: See page Y-46 for 55° angle adapters and additional accessories.*

# Marine Products

## 12 Volt DC Rated Switches

### KEY CHART



**M11SP**

#### 1. Toggle switch

Fits panels up to 1/4 in. thick when not using the back-up nut provided; fits panels up to 3/16 in. thick when using the back-up nut. Requires a 1/2 in. mounting hole.



**M11LRGSP**

#### 2. Lighted toggle switch

Built-in pilot light (R=red, G=green) for night vision. Same panel specs as 1.



**M11LTR**

#### 3. Lighted-tip toggle switch

Red pilot light visible in tip of toggle only. Same panel specs as 1.



**MR11SP**

#### 4. Rocker switch

Requires a 1/2 in. high x 7/8 in. wide rectangular opening.



**MR123LRSP**

#### 5. Lighted rocker switch

Built-in pilot light for night vision. Same panel specs as 4.

### Panel Mount Toggle and Rocker Switches

Description	Typical Applications	Key	Catalog Number
Single pole, single throw, ON/OFF.	Lights, bilge blower, bilge pump(s), accessories	1	<b>M11SP</b>
		2	<b>M11LRSP</b>
		3	<b>M11LRGSP</b>
		4	<b>M11LTR</b>
		5	<b>MR11SP</b> <b>MR11LRSP</b>
Single pole, single throw, ON/OFF/ON.	Horn, starter, winches, gauges		<b>M11MSP</b>
			<b>MR11MSP</b>
Single pole, double throw, ON/OFF/ON.	Bilge pumps, speed selector, lights, navigation lights		<b>M123SP</b>
			<b>M123LTR</b>
			<b>MR123SP</b> <b>MR123LRSP</b>
Single pole, double throw, Momentary ON/OFF/ON.	Bilge pumps	1	<b>M123MSP</b>
		4	<b>MR123MSP</b>
Single pole, double throw, Momentary ON/OFF/Momentary ON.	Trim Tabs	1	<b>M123MMSP</b>
		4	<b>MR123MMSP</b>
Double pole, single throw, ON/OFF.	Lights, accessories	1	<b>M21SP</b>
		4	<b>MR21SP</b>
Double pole, double throw, ON/OFF/ON.	Navigation lights, wipers, dual fuel tanks	1	<b>M223SP</b>
		4	<b>MR223SP</b>
		5	<b>MR223LRSP</b>
Double pole, double throw, ON/OFF/ON (with jumper).	Navigation lights, windlass	1	<b>M223JSP</b>
Double pole, double throw, Momentary ON/OFF/Momentary ON.	Winches, trim tabs, dual fuel tanks	1	<b>M223MMSP</b>
		4	<b>MR223MMSP</b>
Black silicone rubber boot bonded to brass nut.	Provides positive seal against moisture, oil, etc. Fits any non-lighted toggle switch.		<b>MSB1</b>
Push-button horn switch with 1 5/8 in. long nickel plated brass mounting stem. Terminals are .25 in. spade.	For remote operation of horn.		<b>MH11</b>
Black push-button (horn) boot.	Fits MH11 horn switch.		<b>MHB11</b>



**M11SP**



**M123SP**



**M21SP**



**M223SP**



**MSB1**



**MH11**



**MHB11**

## 15 Amp Twist-Lock® Devices and Accessories



HBL47CM00

### 15A 125V AC Twist-Lock® Devices

Description	Catalog Number
Yellow duplex receptacle has heat resistant body. <b>IP20 SUITABILITY.</b>	<b>HBL47CM00</b>
Yellow Insulgrip® plug has rugged nylon housing and detachable cord grip with range of .30-.69 in. (7.5-17.4) that utilizes a unique offset jaws arrangement to provide secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL47CM20C</b>
Yellow Insulgrip connector body has rugged nylon housing and detachable cord grip with range of .30-.69 in. (7.5-17.4) that utilizes a unique offset jaws arrangement to provide secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL47CM29C</b>
Panel mount flanged outlet has heat resistant melamine interior and stainless steel casing. <b>IP20 SUITABILITY.</b>	<b>HBL47CM15</b>
Panel mount flanged inlet has heat resistant melamine interior and stainless steel casing. <b>IP20 SUITABILITY.</b>	<b>HBL47CM16</b>



HBL47CM20C



HBL47CM29C

### Accessories

Description	Catalog Number
Yellow Valox® spring-loaded lift cover for weatherproofing duplex receptacles. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP20 SUITABILITY.</b>	<b>HBL52CM21</b>
Same as HBL52CM21 except white in color	<b>HBL52CM21W</b>
Same as HBL52CM21 except gray in color.	<b>HBL5221</b>
Same as HBL52CM21 except for mounting to standard boxes.	<b>HBL52CM22</b>
Same as HBL52CM22 except gray in color.	<b>HBL5222</b>
Short yellow Seal-Tite® cover for weatherproofing HBL47CM20C Insulgrip plug when used with receptacles or connector bodies. Also can be used to weatherproof HBL47CM29C Insulgrip connector body when used with HBL47CM16 flanged inlet. <b>IP44 SUITABILITY.</b>	<b>HBL60CM23**</b>
Yellow Seal-Tite cover for weatherproofing HBL47CM29C Insulgrip connector body when used on extension cords and adapters. <b>IP20 SUITABILITY.</b>	<b>HBL60CM24**</b>
Three conductor, #14 AWG type STW, yellow PVC jacketed portable cord has jute fillers for added flexibility and is ideal for making cable sets, extension cords and adapters as it will not mark the boat's deck. Available in 250 ft. (76.2m) length only.	<b>YC314250</b>

Note: \*\*Not UL Listed or CSA Certified.



HBL47CM15



HBL47CM16



HBL60CM23



HBL60CM24



HBL52CM21W



YC314250

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.



## 15 Amp Straight Blade Devices and Accessories



15A 125V  
NEMA 5-15R  
UL/CSA

### 15A 125V AC Straight Blade Devices

Description	Catalog Number
Yellow corrosion-resistant/weather resistant duplex receptacle. Use outdoors or where salt and other corrosive materials are a problem. Accepts 15A 125V, 2 pole 3 wire straight blade plugs. <b>IP20 SUITABILITY.</b>	<b>HBL52CM62</b>
Same as HBL52CM62 except ivory in color.	<b>HBL52CM62I</b>
Single version of HBL52CM62 duplex yellow receptacle. <b>IP20 SUITABILITY.</b>	<b>HBL52CM61</b>
Yellow Insulgrip® plug has rugged nylon housing and detachable cord grip with range of .23-.72 in. (5.8-18.3) that utilizes a unique offset jaws arrangement for secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL52CM66C</b>
Yellow Insulgrip connector body has rugged nylon housing and detachable cord grip with range of .23-.72 in. (5.8-18.3) that utilizes a unique offset jaws arrangement for secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL52CM69C</b>
Yellow Valise® plug has one-piece nylon housing that assembles easily with two screws. Built-in cord grip has range of .22-.66 in. (5.6-16.8). <b>IP20 SUITABILITY.</b>	<b>HBL52CM66V</b>
Yellow Valise connector body has one-piece nylon housing that assembles easily with two screws. Built-in cord grip has range of .22-.66 in. (5.6-16.8). <b>IP20 SUITABILITY.</b>	<b>HBL52CM69V</b>
Yellow Insulgrip plug with anchor locking screw to prevent accidental pull-out. The plug is "locked" into the receptacle when the screw is turned down so the head is flush with the plug surface. The cord grip range is .30-.69 in. (7.5-17.4). UL Recognized Component. <b>IP20 SUITABILITY.</b>	<b>HBL52CM80C</b>
Compact gray nylon panel mount inlet ideal for bass boat battery charging connection. Has gasketed spring-loaded lift cover for weatherproofing front and neoprene boot for weatherproofing rear. Will accept both 15A 125V and 20A 125V, 2 pole 3 wire straight blade connector bodies. <b>IP44 SUITABILITY.</b>	<b>HBL61CM64</b>
Same as HBL61CM64 except black in color.	<b>HBL61CM64BK</b>

Note: See page Tech-10 for Weather Resistant descriptions.

### Accessories

Description	Catalog Number
Yellow Seal-Tite® cover for weatherproofing straight blade Insulgrip plugs, HBL52CM66C and HBL53CM66C, when used with receptacles and connector bodies. Can also be used to weatherproof Insulgrip connector bodies when mating with flanged inlets. <b>IP44 SUITABILITY.</b> Note: For Insulgrip devices only.	<b>HBL60CM17**</b>
Yellow Seal-Tite cover for weatherproofing straight blade Insulgrip connector bodies, HBL52CM69C and HBL53CM69C, on extension cords and adapters. <b>IP55 SUITABILITY.</b> Note: For Insulgrip devices only.	<b>HBL60CM18**</b>
Yellow Valox® spring-loaded lift cover for weatherproofing duplex receptacles. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP20 SUITABILITY.</b>	<b>HBL52CM21</b>
Same as HBL52CM21 except gray in color.	<b>HBL5221</b>
Same as HBL52CM21 except for mounting to standard boxes.	<b>HBL52CM22</b>
Same as HBL52CM22 except gray in color.	<b>HBL5222</b>
Yellow Valox spring-loaded lift cover for weatherproofing single straight blade receptacles. Stainless steel screws and neoprene gasket included. For mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	<b>HBL74CM23WO</b>
Same as HBL74CM23WO except gray in color.	<b>HBL7423WO</b>

Note: \*\*Not UL Listed or CSA Certified.



HBL52CM62 HBL52CM61



HBL52CM69C



HBL52CM66V



HBL52CM80C



HBL60CM17



HBL60CM18



HBL60CM17



HBL60CM18  
HBL60CM19



HBL52CM21



HBL74CM23WO



HBL61CM64

Rynite® is a registered trademark of E. I. DuPont.

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

## 20 Amp Twist-Lock® Devices and Accessories

Plugs, receptacles and connectors only.



20A 125V  
NEMA L5-20R  
UL/CSA



HBL23CM10

### 20A 125V Twist-Lock® Devices

Description	Catalog Number
Yellow single receptacle has Rynite® body and abuse resistant nylon face. <b>IP20 SUITABILITY.</b>	<b>HBL23CM10</b>
Yellow Insulgrip® plug has rugged nylon housing and cord grip with range of .36-.93 in. (9-24) that utilizes a unique offset jaws arrangement to provide secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL23CM11</b>
Yellow Insulgrip connector body has rugged nylon housing and cord with range of .36-.93 in. (9-24) that utilizes a unique offset jaws arrangement to provide secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL23CM13</b>
Yellow Valise plug has one-piece nylon housing, assembles easily with two screws. Built-in cord grip has range of .33-.72 in. (8.3-18.2). <b>IP20 SUITABILITY.</b>	<b>HBL23CM11V</b>



HBL23CM11



HBL23CM13

### Accessories

Description	Catalog Number
Yellow polycarbonate spring-loaded lift cover for weather-proofing HBL23CM10 receptacle. Meets the most stringent requirements of UL's three listing categories for weatherproof plates. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	<b>HBL74CM25WOA</b>
Same as HBL74CM25WOA except gray in color.	<b>HBL7425WOA</b>
Same as HBL74CM25WOA except white in color.	<b>HBL74CM25WOAW</b>
Yellow Seal-Tite® cover for weatherproofing HBL26CM11 or HBL23CM11 plugs. <b>IP44 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM31**</b>
Same as HBL60CM31 except white in color.	<b>HBL60CM31W**</b>
Yellow Seal-Tite cover for weatherproofing HBL26CM13 or HBL23CM13 connector bodies when used on extension cords or adapters. <b>IP44 SUITABILITY.</b> Note: Fits Insulgrip devices only.	<b>HBL60CM32**</b>
Yellow vinyl Seal-Tite cover for weatherproofing HBL23CM13V or HBL26CM13V connector bodies. <b>IP44 SUITABILITY.</b> Note: Fits Valise® devices only.	<b>HBL60CM32V**</b>
Yellow Seal-Tite cover for weatherproofing HBL23CM11V or HBL26CM11V plugs. <b>IP44 SUITABILITY.</b> Note: Fits Valise devices only.	<b>HBL60CM31V**</b>
Three conductor, #12 AWG type STW, yellow PVC jacketed portable cord with jute fillers for added flexibility. Ideal for making cable sets, extension cords and adapters as will not mark boat's deck. Available in 250 ft. (76.2m) length only.	<b>YC312250</b>

Note: \*\*Not UL Listed or CSA Certified.



HBL23CM11V



HBL60CM31



HBL60CM31V



HBL60CM32



HBL60CM32V



HBL74CM25WOA



YC312250

Rynite® is a registered trademark of E. I. DuPont.

## 20 Amp Straight Blade Devices and Accessories



### 20A 125V AC Straight Blade Devices

Description	Catalog Number
Yellow corrosion-resistant/weather resistant duplex receptacle. Use outdoors or where salt and other corrosive materials are a problem. Accepts both 20A 125V and 15A 125V, 2 pole 3 wire straight blade plugs. <b>IP20 SUITABILITY.</b>	<b>HBL53CM62</b>
Single version of HBL53CM62 duplex yellow receptacle. <b>IP20 SUITABILITY.</b>	<b>HBL53CM61</b>
Yellow Insulgrip® plug has rugged nylon housing and detachable cord grip with range of .23-.72 in. (5.8-18.3) that utilizes unique offset jaws arrangement to provide secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL53CM66C</b>
Yellow Insulgrip connector body has rugged nylon housing and cord grip with range of .23-.72 in. (5.8-18.3) that utilizes unique offset jaws arrangement for secure strain relief. <b>IP20 SUITABILITY.</b>	<b>HBL53CM69C</b>
Compact gray nylon panel mount outlet ideal for electric trolling motors and reel applications. Features gasketed spring-loaded lift cover for weatherproofing front and neoprene boot for weatherproofing rear. Accepts both 20A 125V and 15A 125V, 2 pole 3 wire straight blade plugs. <b>IP44 SUITABILITY.</b>	<b>HBL61CM65</b>

Note: See page Tech-10 for Weather Resistant descriptions.



HBL53CM62 HBL53CM61



HBL53CM66C



HBL53CM69C



HBL52CM66V



HBL52CM69V



HBL61CM65

### Accessories

Description	Catalog Number
Yellow Seal-Tite® cover for weatherproofing straight blade Insulgrip plugs, HBL52CM66C and HBL53CM66C, when used to mate receptacles and connector bodies. Can also be used with Insulgrip connector bodies when mating with flanged inlets. <b>IP44 SUITABILITY.</b> Note: For Insulgrip devices only.	<b>HBL60CM17**</b>
Yellow Seal-Tite cover for weatherproofing straight blade Insulgrip connector bodies, HBL52CM69C and HBL53CM69C, on extension cords and adapters. <b>IP55 SUITABILITY.</b> Note: For Insulgrip devices only.	<b>HBL60CM18**</b>
Yellow closure plug used with HBL60CM18 long Seal-Tite cover to prevent water from entering front of device when not in use. <b>IP55 SUITABILITY.</b>	<b>HBL60CM19**</b>
Yellow polycarbonate spring-loaded lift cover for weatherproofing duplex receptacles. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP20 SUITABILITY.</b> Not CSA certified.	<b>HBL52CM21</b>
Same as HBL52CM21 except white in color.	<b>HBL52CM21W</b>
Same as HBL52CM21 except gray in color.	<b>HBL5221</b>
Same as HBL52CM21 except for mounting to standard boxes.	<b>HBL52CM22</b>
Same as HBL52CM22 except gray in color.	<b>HBL5222</b>
Yellow polycarbonate spring-loaded lift cover for weatherproofing single straight blade receptacles. Stainless steel screws and neoprene gasket included. For mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b> Not CSA certified.	<b>HBL74CM23WO</b>
Same as HBL74CM23WO except gray in color.	<b>HBL7423WO</b>

Note: \*\*Not UL Listed or CSA Certified.



HBL60CM17



HBL52CM21



HBL52CM21W



HBL74CM23WO



HBL7423WO

Rynite® is a registered trademark of E. I. DuPont.



## Testers, Surge Protection and USB Charger Receptacles

### Hubbell Twist-Lock® Circuit Tester



HBLT26CM11

Description	Catalog Number
Styled and sized like a standard Hubbell Twist-Lock® Plug. Simply plug it in and the LED back panel immediately identifies if the connections are made correctly and are in the correct position, ensuring the device is wired properly. An easy to read card is provided with the tester, to help determine if the connections are correct. This tester is compact and can easily clip onto your tool belt. The Hubbell Circuit Tester is UL and C-UL Listed.	<b>HBLT26CM11</b>



GFT2G

### Additional Testers

Description	Catalog Number
This unit is designed to measure the trip level of GFCI portables, receptacles, or breakers within any range from 2 to 7 milliamperes, or the leakage in portable tools or appliances within a leakage range of 1 to 7 milliamperes. It can be used on any AC circuit of 110 to 130V.	<b>GFT2G*</b>



HBL5200

This outlet circuit tester has a simple arrangement of neon lights which visually indicate correct wiring, reversed polarity, open ground wire, open neutral wire, open hot wire, hot and ground reversed and hot wire on neutral terminal and hot terminal unwired. Simply plug the HBL5200 into a single phase 125V 2 pole 3 wire outlet and the combination of lighted and/or unlighted lamps will immediately indicate the condition of the circuit. The instructions and symbol identification are printed on durable polyester labels permanently attached to the tester. To test other 2 pole 3 wire single phase 125V outlets, use one of the proper adapters shown on page Y-29.	<b>HBL5200**</b>
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Note: \*Not UL Listed or CSA Certified.  
\*\*Not CSA Certified.

### Surge Suppression Receptacle

Surge suppression receptacles 15A 125V AC Nominal. UL Listed at 600V voltage protection level. Suitable for ANSI/IEEE C 62.41 -installation categories "A" (outlets and long branch circuits) and "B" (major feeders and short branch circuits). The Hubbell Surge Suppression Receptacle helps protect your electronic equipment from damage caused by transient voltages. The receptacle contains metal oxide varistors which dissipate the electrical energy of voltage spikes without interfering with normal operations.

Description	Color	Catalog Number
duplex surge suppression receptacle with power on indicator light and damage-alert alarm beeper.	Ivory	<b>HBL5262ISA</b>



HBL5262ISA

### USB Charger Tamper-Resistant Duplex Receptacle, New with 3.8 Amps of Charging Power

Hubbell's USB Charger Receptacle provides both USB and AC electrical power in a standard single gang electrical opening. Designed to provide more charging options for personal electronics.

Charge Devices Simultaneously!

- Tablets
- Smartphones
- MP3 players
- Apple® iPad®
- Apple® iPod®
- Apple® iPhone®

Description	Color	Catalog Number
15A 125V AC USB Charger Tamper-Resistant receptacle, Two USB Type 2.0 ports 3.8 Amp, 5 Volt DC, 15 or 20 Amp, 125 Volt AC decorator duplex.	Black	<b>USB15X2BK</b>
	Brown	<b>USB15X2</b>
	Gray	<b>USB15X2GY</b>
	Ivory	<b>USB15X2I</b>
	Light Almond	<b>USB15X2LA</b>
	White	<b>USB15X2W</b>

Note: See page Tech-10 for Tamper-Resistant descriptions.

Apple, iPad, iPod and iPhone are registered trademarks of Apple, inc.



USB15X2W

## GFCI and Portable Ground Fault Circuit Interrupters

The American Boat and Yacht Council recommends the use of ground fault protected receptacles in a head, galley, machinery space or on a weather deck. Refer to ABYC "Ground Fault Protection" on page Y-48.

### Ground Fault Circuit Interrupter (GFCI) Receptacles - 2015 Code Compliant

These UL Listed receptacles have been designed to protect people from line-to-ground electrical shock hazards which may develop from faulty appliance, tools or defective portable cords. If a ground fault does occur and the leakage level exceeds 4 to 6 milliamperes, the GFCI unit quickly acts to protect the user by opening the circuit, thus interrupting the power supply and limiting the duration of any electrical current flow. After tripping, the receptacle is reset by pushing a button on its face. A test button allows the user to test that the GFCI is in working order.

**Note: The 2015 UL 943 requirements apply to all permanently installed GFCI devices. Each device must automatically monitor GFCI functionality every (3) hours or less. If the device can no longer provide GFCI protection it must deny power and provide a visual and/or audible indication for end of life. All GFCIs manufactured prior to June 29th, 2015 are grandfathered from these new requirements.**

Hubbell's GFCI receptacles can be mounted on any standard 2.50 inch (63.5) deep box. A feed-through feature provides protection not only at that receptacle but also at any other receptacle located downstream from it on the same circuit. These devices meet the requirements of The National Electric Code (NEC) and American Boat and Yacht Council Standard and will accept locking fork terminals.

**Caution: Ground Fault Receptacles should not be mounted in locations exposed to salt spray nor in the engine room. For GFCI protection of such locations, downstream feeding from an internally located Ground Fault Receptacle is recommended.**

Description	Color	Catalog Number
15A 125V GFCI duplex receptacle with power denial. Nylon wallplate included.	Brown	<b>GFRST52M</b>
	Gray	<b>GFRST52MGY</b>
	Ivory	<b>GFRST52MI</b>
	White	<b>GFRST52MW</b>
PVC weatherproof lift cover for ground fault receptacles (such as GFRST52M series) and Style Line® receptacles. For vertical mounting in standard or FS/FD type boxes.	Gray	<b>CWP26CR</b>
	White	<b>CWP26CRW</b>



GFRST52MW



CWP26CRW



GFP15M



GFP315A

### Portable Ground Fault Circuit Interrupters (GFCI)

Ideal for providing safety in applications requiring multiple outlets, features gasketed cover to protect outlets not in use. Ensures safety by interrupting power when leakage to ground is 4 to 6 milliamperes. A test button allows the user to test that the GFCI is in working order. This portable solution provides open neutral protection.

Description	Catalog Number
The housing is high-impact yellow polycarbonate as are the liftcovers which protect the receptacles from dirt and damage. Incorporates a 20 Amp GFCI module that can be replaced in the field. The module provides not only ground fault protection, but also contains the no voltage release feature.	<b>GFP15M</b>
3-outlet plug-in unit. Plugs into boat convenience receptacles to provide ground fault protection.	<b>GFP315A</b>

*Note: GFCI devices will not protect against overloads or short circuits.*

### 15A 125V GFCI Line Cord Devices

Description	Line Cord Length	Catalog Number
Ideal for personal plug-in protection at marinas and onboard boats when used with pumps, drills, sanders and all portable electrical equipment. GFCI mechanism is watertight and approved for outdoor use. High visibility yellow SJTW-A power cord resists moisture, chemicals and sunlight.	6 ft. (1.8m)	<b>GFP6C15M</b>
	25 ft. (7.6m)	<b>GFP25C15M</b>



GFP6C15M  
GFP25C15M



## 15 and 20 Amp Receptacles

### Style Line® Decorator Receptacles

- High-impact nylon face resists breaking, chipping and cracking.
- Will accept locking fork terminal to comply with ABYC standards.
- Available in 4 colors for any decor with matching wall plates.
- Smooth, high-gloss finish for rich appearance.



DR151TR



DR15GRYWRTR

### Commercial Style Line® Decorator Series



Description	Color	Standard Duplex	Duplex, Tamper-Resistant	Duplex, Weather and Tamper-Resistant
15A 125V duplex receptacle.	Almond	<b>DR15AL</b>	<b>DR15ALTR</b>	—
	Black	<b>DR15BLK</b>	<b>DR15BLKTR</b>	<b>DR15BLKWRTR</b>
	Brown	<b>DR15</b>	<b>DR15TR</b>	<b>DR15WRTR</b>
	Gray	<b>DR15GRY</b>	<b>DR15GRYTR</b>	<b>DR15GRYWRTR</b>
	Ivory	<b>DR15I</b>	<b>DR15ITR</b>	<b>DR15IWRTR</b>
	Light Almond	<b>DR15LA</b>	<b>DR15LATR</b>	<b>DR15LAWRTR</b>
	White	<b>DR15WHI</b>	<b>DR15WHITR</b>	<b>DR15WHIWRTR</b>

### Commercial Series



Description	Color	Standard Duplex, Spec. Grade, Side Wired	Duplex, Tamper-Resistant	Duplex, Weather and Tamper-Resistant, Back and Side Wired
15A 125V duplex receptacle.	Almond	<b>CR15AL</b>	<b>CR15ALTR</b>	—
	Black	<b>CR15BLK</b>	<b>CR15BLKTR</b>	<b>BR15BLKWRTR</b>
	Brown	<b>CR15</b>	<b>CR15TR</b>	<b>BR15WRTR</b>
	Gray	<b>CR15GRY</b>	<b>CR15GRYTR</b>	<b>BR15GRYWRTR</b>
	Ivory	<b>CR15I</b>	<b>CR15ITR</b>	<b>BR15IWRTR</b>
	Light Almond	<b>CR15LA</b>	<b>CR15LATR</b>	<b>BR15LAWRTR</b>
	White	<b>CR15WHI</b>	<b>CR15WHITR</b>	<b>BR15WHIWRTR</b>

Note: All devices above will accept locking fork terminal to comply with ABYC standards. See page Tech-10 for Tamper and Weather Resistant descriptions.



CR15TR



BR15IWRTR



HBL5251



HBL5361I

### Extra Heavy Duty Single Receptacles



Description	Color	Catalog Number
15A 125V single receptacle.	Brown	<b>HBL5251</b>
	Ivory	<b>HBL5251I</b>
20A 125V single receptacle.	Brown	<b>HBL5361</b>
	Ivory	<b>HBL5361I</b>

### Corrosion-Resistant Receptacles



Description	Color	Catalog Number
15A 125V yellow corrosion-resistant duplex receptacle. Use where salt or other corrosive elements are a problem.	Yellow	<b>HBL52CM62</b>
Same as HBL52CM62 except ivory in color.	Ivory	<b>HBL52CM62I</b>

### Special Application Illuminated Receptacle

Description	Color	Catalog Number
Illuminated receptacle 15A 125V grounding. A high quality receptacle with an illuminated face. Ideal for use in halls or as a gentle night light.	Ivory	<b>HBL8200ILI</b>

Note: See page Tech-10 for Weather Resistant descriptions.



HBL52CM62I



HBL8200ILI

## Switches and Accessories

### Commercial Series

Description	Toggle Color	Catalog Number
15A single-pole toggle switch for controlling AC load from one point.	Almond	<b>CS115AL</b>
	Black	<b>CS115BK</b>
	Brown	<b>CS115</b>
	Gray	<b>CS115GY</b>
	Ivory	<b>CS115I</b>
	Light Almond	<b>CS115LA</b>
15A three-way toggle switch for controlling AC load from two points.	Almond	<b>CS315AL</b>
	Black	<b>CS315BK</b>
	Brown	<b>CS315</b>
	Gray	<b>CS315GY</b>
	Ivory	<b>CS315I</b>
	Light Almond	<b>CS315LA</b>
	White	<b>CS315W</b>

Note: All devices above will accept locking fork terminal to comply with ABYC standards.



CS115I



HBL1221IL



HBL1221PL

### Special Application Series

Description	Catalog Number
20A 120V toggle switch with LED lamp set in ivory handle. Handle illuminates when switch is in "OFF" position.	<b>HBL1221IL</b>
20A 120V three-way toggle switch with LED illuminated ivory handle for controlling AC load from two points. Handle illuminates when "OFF".	<b>HBL1223IL</b>
20A 120V single-pole toggle switch with LED lamp set in clear red handle. Handle illuminates when switch is "ON". Serves as instant reminder that current is flowing to an appliance.	<b>HBL1221PL</b>
20A 120V three-way toggle switch with LED for controlling AC load from two points. Red handle illuminates when "ON".	<b>HBL1223PL</b>
Single-pole PresSwitch® for controlling AC load from one point. Switch activated brown button.	<b>HBL1281</b>
Same as HBL1281 except ivory button.	<b>HBL1281I</b>
Three-way PresSwitch for controlling AC load from two points. Switch activated brown button.	<b>HBL1283*</b>
Same as HBL1283 except ivory button.	<b>HBL1283I*</b>



HBL1281



HBL1283



HBL17CM50



HBL1795

### Accessories

Description	Catalog Number
Yellow neoprene weatherproof plate for use only with PresSwitches. PresSwitch button is activated when bubble is pressed. Not CSA certified.	<b>HBL17CM50*</b>
Clear silicone rubber weatherproof bubble plate for use with all AC toggle switches and PresSwitches. Also ideal for use with lighted handle toggle switches. Not CSA certified.	<b>HBL1795</b>
Plastic switch/receptacle box. Measures 3.281" x 2.188" x 2.50" (83.3 x 55.6 x 63.5) deep. For mounting in walls without studs. A support strap is provided which pulls box tightly against back side of wall.	<b>HBL6079**</b>

Note: \*Not UL Listed.











\*\*Not CSA Certified.



HBL6079

## Wallplates

- Nylon plates—virtually unbreakable
- Rounded corners for stylish look
- Reinforced ribs for extra strength
- Screws are factory-inserted for fumble-free installation

Description	Color	Smooth Nylon		Material	Smooth Metal Catalog Number
		Standard	Mid-Size		
 1-Gang, 1-Toggle	Black Brown Gray Ivory White	<b>NP1BK</b> <b>NP1</b> <b>NP1GY</b> <b>NP1I</b> <b>NP1W</b>	<b>NPJ1BK</b> <b>NPJ1</b> <b>NPJ1GY</b> <b>NPJ1I</b> <b>NPJ1W</b>	Brass Stainless Steel	<b>SB1</b> <b>SS1</b>
 1-Gang, 1-Duplex	Black Brown Gray Ivory White	<b>NP8BK</b> <b>NP8</b> <b>NP8GY</b> <b>NP8I</b> <b>NP8W</b>	<b>NPJ8BK</b> <b>NPJ8</b> <b>NPJ8GY</b> <b>NPJ8I</b> <b>NPJ8W</b>	Brass Stainless Steel	<b>SB8</b> <b>SS8</b>
 1-Gang, 1-Decorator	Black Brown Gray Ivory White	<b>NP26BK</b> <b>NP26</b> <b>NP26GY</b> <b>NP26I</b> <b>NP26W</b>	<b>NPJ26BK</b> <b>NPJ26</b> <b>NPJ26GY</b> <b>NPJ26I</b> <b>NPJ26W</b>	Brass Stainless Steel	<b>SB26</b> <b>SS26</b>
 2-Gang, 2-Toggle	Black Brown Gray Ivory White	<b>NP2BK</b> <b>NP2</b> <b>NP2GY</b> <b>NP2I</b> <b>NP2W</b>	<b>NPJ2BK</b> <b>NPJ2</b> <b>NPJ2GY</b> <b>NPJ2I</b> <b>NPJ2W</b>	Brass Stainless Steel	<b>SB2</b> <b>SS2</b>
 2-Gang, 2-Duplex	Black Brown Gray Ivory White	<b>NP82BK</b> <b>NP82</b> <b>NP82GY</b> <b>NP82I</b> <b>NP82W</b>	<b>NPJ82BK</b> <b>NPJ82</b> <b>NPJ82GY</b> <b>NPJ82I</b> <b>NPJ82W</b>	Brass Stainless Steel	<b>SB82</b> <b>SS82</b>
 2-Gang, 2-Decorator	Black Brown Gray Ivory White	<b>NP262BK</b> <b>NP262</b> <b>NP262GY</b> <b>NP262I</b> <b>NP262W</b>	<b>NPJ262BK</b> <b>NPJ262</b> <b>NPJ262GY</b> <b>NPJ262I</b> <b>NPJ262W</b>	Brass Stainless Steel	<b>SB262</b> <b>SS262</b>
 2-Gang, 1-Toggle, 1-Duplex	Black Brown Gray Ivory White	<b>NP18BK</b> <b>NP18</b> <b>NP18GY</b> <b>NP18I</b> <b>NP18W</b>	<b>NPJ18BK</b> <b>NPJ18</b> <b>NPJ18GY</b> <b>NPJ18I</b> <b>NPJ18W</b>	Brass Stainless Steel	<b>SB18</b> <b>SS18</b>
 2-Gang, 1-Toggle, 1-Decorator	Black Brown Gray Ivory White	<b>NP126BK</b> <b>NP126</b> <b>NP126GY</b> <b>NP126I</b> <b>NP126W</b>	<b>NPJ126BK</b> <b>NPJ126</b> <b>NPJ126GY</b> <b>NPJ126I</b> <b>NPJ126W</b>	Brass Stainless Steel	<b>SB126</b> <b>SS126</b>
 1-Gang, 1-Single 1.40" Dia. Hole	Black Brown Gray Ivory White	<b>NP7BK</b> <b>NP7</b> <b>NP7GY</b> <b>NP7I</b> <b>NP7W</b>	<b>NPJ7BK</b> <b>NPJ7</b> <b>NPJ7GY</b> <b>NPJ7I</b> <b>NPJ7W</b>	Brass Stainless Steel	<b>SB7</b> <b>SS7</b>
 1-Gang, 1-Blank, Box Mount	Black Brown Gray Ivory White	<b>NP13BK</b> <b>NP13</b> <b>NP13GY</b> <b>NP13I</b> <b>NP13W</b>	<b>NPJ13BK</b> <b>NPJ13</b> <b>NPJ13GY</b> <b>NPJ13I</b> <b>NPJ13W</b>	Brass Stainless Steel	<b>SB13</b> <b>SS13</b>

# Marine Products

## Communication Frames and Connectors

### Hubbell Now Offers The Ability To Put 2 or 3 Communication Devices In a Single, Style Line® Plate

Any combination of phone (6-position jack), cable TV (F-type connector) and Category 5e modular data jacks can be assembled onto a 2-port or 3-port frame—each sold individually so you can customize them as needed. Or the highly popular phone and cable TV combination is available with the frame and matching wallplate under a single catalog number, in all the popular colors.

Finally—a single communications plate that can take the place of 2 or 3 plates—available from a company you can trust for superior quality.

Hubbell's Marine communication frames and connectors deliver high quality data and multimedia transmission to the point of connection. Hubbell's 2 and 3 port Style Line® frames and leading edge connections allow for customized configurations. Install Hubbell's Marine communication offering and be assured a reliable connection.

### 2 Port Communication Frame, Fully Loaded (6-Position Phone Jack, F-Type Cable TV Jack and Style Line® Plate Included)

Color	No. of Ports	Connection Type	Catalog Number
Ivory	2	USOC, F-Type	<b>NS783I</b>
White	2	USOC, F-Type	<b>NS783W</b>

### Style Line® Frames, 2 Port and 3 Port Unloaded

Color	No. of Ports	Connection Type	Catalog Number
Black	2	—	<b>NS612BK</b>
Gray	2	—	<b>NS612GY</b>
Ivory	2	—	<b>NS612I</b>
White	2	—	<b>NS612W</b>
Black	3	—	<b>NS613BK</b>
Gray	3	—	<b>NS613GY</b>
Ivory	3	—	<b>NS613I</b>
White	3	—	<b>NS613W</b>

### Category 6 Modular Keystone Jacks

Color	Wiring	No. Positions	Catalog Number
Black	T568A/T568B	8-Positions	<b>NSJ6BK</b>
Gray	T568A/T568B	8-Positions	<b>NSJ6GY</b>
Ivory	T568A/T568B	8-Positions	<b>NSJ6I</b>
White	T568A/T568B	8-Positions	<b>NSJ6W</b>

### Category 5e Modular Keystone Jacks

Color	Wiring	No. Positions	Catalog Number
Black	T568A/T568B	8-Positions	<b>NSJ5EBK</b>
Gray	T568A/T568B	8-Positions	<b>NSJ5EGY</b>
Ivory	T568A/T568B	8-Positions	<b>NSJ5EI</b>
White	T568A/T568B	8-Positions	<b>NSJ5EW</b>

### USOC Modular Keystone Jacks

Color	Wiring	No. Positions	Catalog Number
Black	USOC	6-Positions	<b>NSJUBK</b>
Gray	USOC	6-Positions	<b>NSJUGY</b>
Ivory	USOC	6-Positions	<b>NSJUI</b>
White	USOC	6-Positions	<b>NSJUW</b>

### F-Type Connector Keystone

Color	Catalog Number
Black	<b>SFFGBK</b>
Gray	<b>SFFGGY</b>
Ivory	<b>SFFGEI</b>
White	<b>SFFGW</b>



NS783I



NS612I

NS613I



NSJ6W

NSJ5EW



NSJUW



SFFGEI

## Boatyard Accessory Items

### Non-Metallic While-In-Use Weatherproof Covers

- High-impact polycarbonate construction provides maximum durability
- Patented keyhole mounting system allows installation in under a minute
- Includes attached gasket and mounting hardware
- Pre-configured for GFCI with patented knockout technology for alternate devices
- Lockable tab
- NEMA 3R rated
- EXTRA DUTY® 5800 Series covers meet or exceed the extra duty rating per UL 514D and are NEMA 3R rated
- 2017 NEC® Compliant (Article 406.9A & B)
- cULus Listed



RW57300



RW58300

### 1-Gang Weatherproof Covers for Vertical or Horizontal Mounting

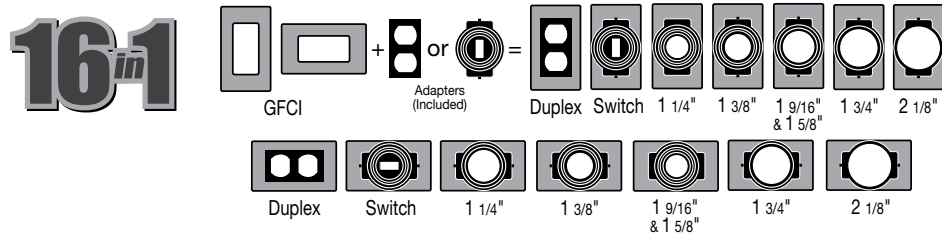
Description	Standard	EXTRA DUTY®
Non-metallic, black (standard) or gray (extra duty) with clear tinted cover, while-in-use, 16-in-1 configurations below.	<b>RW57300</b>	<b>RW58300</b>
Jumbo, non-metallic, black (standard) or gray (extra duty) with clear tinted cover, while-in-use, 16-in-1 configurations below.	<b>RW57350</b>	<b>RW58350</b>



RW57350



RW58350



RW57750

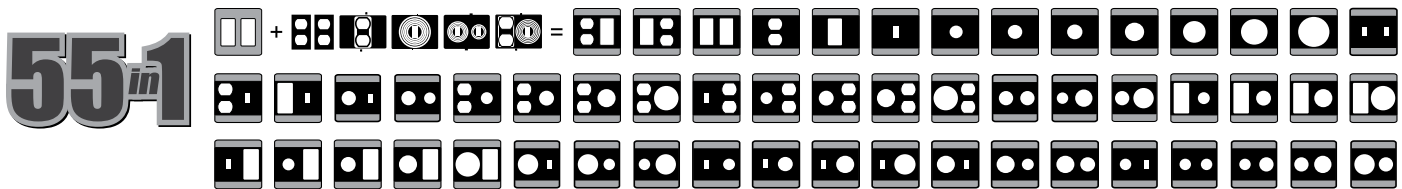


RW58750

### 2-Gang Weatherproof Covers for Vertical or Horizontal Mounting

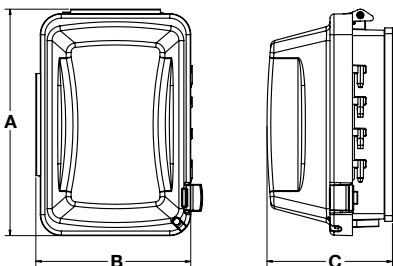
Description	Standard	EXTRA DUTY®
Non-metallic, black (standard) or gray (extra duty) with clear tinted cover, while-in-use, 55-in-1 configurations below	<b>RW57750</b>	<b>RW58750</b>

Note: Required by the NEC® for while-in-use outdoor power distribution. Thermoplastic covers provide protection for use in wet locations with the cover closed, NEMA® 3R rated. Meets 2017 NEC 406.9 – receptacles in damp or wet locations. Holes for padlocks are .40 inch.



Multiple combinations of duplex, GFCI, switch, and rounds: 1 1/4", 1 3/8", 1 9/16", 1 5/8", 1 11/16", 2 1/8", 2 1/4", 2 7/16"

### Product Dimensions Inches (mm)



Dimensions in Inches (mm)

	1-Gang		Jumbo, 1-Gang		2-Gang	
	Standard	EXTRA DUTY®	Standard	EXTRA DUTY®	Standard	EXTRA DUTY®
A	5.54" (140.7)	5.90" (149.9)	5.54" (140.7)	5.92" (150.4)	5.54" (140.7)	5.54" (140.7)
B	3.79" (96.3)	4.18" (106.2)	3.79" (96.3)	4.20" (106.7)	5.43" (137.9)	5.43" (137.9)
C	3.07" (78.0)	3.00" (76.2)	5.08" (129.0)	5.10" (129.5)	3.07" (78.0)	3.07" (78.0)

NEC® is a registered trademark of the The National Electrical Code.

NEMA® is a registered trademark of The National Electrical Manufacturers Association.



## Boatyard Accessory Items

### Marine Grade Weatherproof Plates

Description	Color	Catalog Number
Thermoplastic vertical spring-loaded lift cover plate for weatherproofing ground fault receptacles and decorator-type devices. Marine drip-proof rated with stainless steel hardware. <b>IP44 SUITABILITY.</b>	Gray Yellow	<b>HBL5226</b> <b>HBL52CM26</b>
Same as above except for horizontal mounting.	Gray Yellow	<b>HBL5226H</b> <b>HBL52CM26H</b>
Valox® spring-loaded lift cover for weatherproofing duplex receptacles. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP20 SUITABILITY.</b>	Gray Yellow White	<b>HBL5221</b> <b>HBL52CM21</b> <b>HBL52CM21W</b>
Same as HBL52CM21 except for mounting to standard boxes.	Gray Yellow	<b>HBL5222</b> <b>HBL52CM22</b>
Valox spring-loaded lift cover for weatherproofing single straight blade receptacles. Stainless steel screws and neoprene gasket included. For mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	Gray Yellow	<b>HBL7423WO</b> <b>HBL74CM23WO</b>
Valox spring-loaded lift cover for weatherproofing old style 26CM10 receptacle. Meets the most stringent requirements of UL's three listing categories for weatherproof plates. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	Gray Yellow	<b>HBL7424WO</b> <b>HBL74CM24WO</b>
Valox spring-loaded lift cover for weatherproofing HBL26CM10 receptacle. Meets the most stringent requirements of UL's three listing categories for weatherproof plates. Stainless steel screws and neoprene gasket included for mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	Gray Yellow White	<b>HBL7425WOA</b> <b>HBL74CM25WOA</b> <b>HBL74CM25WOAW</b>
Valox lift cover for weatherproofing 50A receptacles. Meets requirements of the most stringent of UL's three listing categories for weatherproof plates. Stainless steel screws and a neoprene gasket included. For mounting to FS/FD type weatherproof boxes. <b>IP44 SUITABILITY.</b>	Gray Yellow	<b>HBL7774WO</b> <b>HBL77CM74WO</b>



HBL52CM26



HBL52CM21W



HBL52CM26H

### Commercial Grade Weatherproof Plates

Available in a host of configurations—Twist-Lock® and straight blade receptacles in single or duplex as well as switches—these plates are perfect for marine use. The PVC resists deterioration over time and has high tensile and impact strength. Each plate comes with a tightly sealing, rubberized gasket and a super strong lift cover spring.

Description	Catalog Number
Gray thermoplastic weatherproof lift cover for toggle switches (such as CS115). For vertical mounting in standard or FS/FD type boxes.	<b>HBL5201</b>
Gray PVC weatherproof lift cover for duplex receptacles (such as HBL52CM62). For vertical mounting in standard or FS/FD type boxes.	<b>CWP8CR</b>
Gray PVC weatherproof lift cover for ground fault receptacles (such as GF5252MGYA) and Style Line® receptacles. For vertical mounting in standard or FS/FD type boxes.	<b>CWP26CR</b>
Same as CWP26CR except white in color.	<b>CWP26CRW</b>



HBL52CM21



HBL74CM23WO



CWP8CR



CWP26CR



HBL5201



HBL77CM74WO

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

# Marine Products

## Boatyard Accessory Items

### Marine Grade Dockside Boxes and Covers

30 cu. in. FD box made of high impact thermoplastic material. Accepts duplex and single receptacles up to 50A Twist-Lock®.



HBL60CM55



HBL60CM83A



#### Housing Design

- ¾" NPT and 1" NPT threaded hub options
- 30 cu. in. FD box made of high impact thermoplastic material
- External mounting feet, accepts #10 screw
- Stainless steel mounting/grounding bracket



#### Housing Design

- 55° angle adapter (15 cu. in.)
- External mounting feet, accepts #8 screw
- Stainless steel mounting/grounding bracket



HBL60CM83A



HBL60CM88



HBLP14FS

### FD Boxes, Angled Adapters, Kits and Covers

Boxes	Gray	White	Yellow
(2) ¾" NPT Hubs, FD Boxes	<b>HBL6083</b>	<b>HBL60CM83WA</b>	<b>HBL60CM83A</b>
(2) 1" NPT Hubs, FD Boxes	<b>HBL6084</b>	<b>HBL60CM84WA</b>	<b>HBL60CM84A</b>

#### Adapters\*

55° Angle Adapters	<b>HBL6055*</b>	<b>HBL60CM55W*</b>	<b>HBL60CM55*</b>
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#### Kits

(2) ¾" NPT Hubs, Box/Adapter Kits	<b>HBL6083AK</b>	<b>HBL60CM83WAK</b>	<b>HBL60CM83AK</b>
(2) 1" NPT Hubs, Box/Adapter Kits	<b>HBL6084AK</b>	<b>HBL60CM84WAK</b>	<b>HBL60CM84AK</b>

#### Covers

Blank Cover Plates	<b>HBLP14FS</b>	<b>HBL60CM88W</b>	<b>HBL60CM88</b>
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Note: \*Adapters are not UL Listed, nor UL Type 4X. For UL Type 4X rating, use receptacles in a FD box.

### Marine Grade Dockside Boxes and Covers

Description	Catalog Number
Black phenolic type FS (shallow) weatherproof box has two ¾ in. (19.1) I.P.S. molded-in knockouts. 4.56 in. H x 2.94 in. W x 2.19 in. D (115.9H x 74.6W x 55.6D) and has 16 cubic inch capacity.	<b>HBL6080OS</b>
Black non-metallic FS box with ¾ in. threaded hubs used for mounting phone and TV outlets and PH6595 recreational vehicle inlet (see PH6621 for mounting box on recreational vehicle). Cord connector included for strain relief and to maintain watertight integrity of box when cable is used. PVC adapter also included for connection of PVC conduit to box.	<b>PH6619</b>
Black phenolic junction box with four ¾ in. (19.1) I.P.S. molded-in knock-outs. Has 4.13 in. (104.8) diameter and is 1.88 in. (47.6) deep.	<b>HBL6081</b>
Phenolic blank cover, ¼ in. (6.4) thick, for HBL6081 box.	<b>HBL6082</b>
Black phenolic blank cover plate for HBL6080OS.	<b>HBL6087</b>
Yellow Valox® blank cover plate for use with FS and FD type boxes.	<b>HBL60CM88</b>

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PH6619



HBL6081



HBL6082

## Boatyard Accessory Items

### Non-Metallic Vapor-tight Incandescent Fixtures

These non-metallic, vapor-tight incandescent fixtures offer long life and trouble-free lighting in wet locations in marinas and on boats. Some features of these new units are:

- UV resistant, gray, glass filled thermoplastic polyester box, mounting adapters and globe guards resists abuse and harmful effects of the elements
- Excellent temperature operating range of -40°F (-40°C) to +302°F (150°) for use in areas with wide temperature variations or extreme ambient temperatures
- High temperature silicone gasketing maintains integrity and molded threads for ease of installation/removal
- Heat resistant glass globe withstands thermal shock in wet locations and has thread type mounting to assure weathertight sealing
- High strength protective globe guard helps prevent accidental globe and lamp breakage
- Accommodates Type A incandescent lamps up to 150 watts
- UL 1598 Standard for luminaries
- UL 1598A Marine type luminaries



NVX15GHGA



NVA15GHGA



NVBA



VCGP100

### Lighting and Lighting Fixtures

Description	Catalog Number
Ceiling mount non-metallic, vapor-tight incandescent luminaries including the fixture, mounting box, guard and heat resistant glass globe. Accepts up to 150 watt Type A incandescent lamp (not included).	<b>NVX15GHGA</b>
Pendant mount non-metallic, vapor-tight incandescent luminaries including fixture, mounting cap, guard and heat resistant glass globe. Accepts up to 150 watt Type A incandescent lamp (not included).	<b>NVA15GHGA</b>
Wall mount bracket only to adapt NVX15GHGA ceiling mount fixture to a wall mount fixture. Order NVBA and NVX15GHGA to get wall mount fixture.	<b>NVBA</b>
Replacement guard to NVX15GHGA and NVA15GHGA.	<b>NVGA</b>
Heat resistant replacement globe for NVX15GHGA and NVA15GHGA. Made of tempered glass.	<b>VCGP100</b>

### Nylon Watertight Strain Relief Cord Connectors

These Hubbell nylon cord connectors provide strain relief and a watertight seal where cable enters a piece of equipment, panel, or box. A patented GOTCHA® ring, with a split and hinge design, allows for better adjustment to the cord as the connector nut is tightened, providing superior cord gripping compared to other types. A soft neoprene bushing compresses to keep liquids out and allows the nut to be easily tightened.

Description			Catalog Number
A gray male PVC adapter with ¼ in. NPT pipe thread for adapting PVC conduit to FS and FD boxes with ¼ in. NPT hub (HBL6080, HBL6080OS, HBL60CM83). Not UL Listed.			<b>HBL6085</b>
Description	NPT Hub Size	Diameter Range	Catalog Number
Straight nylon cord connector	½ in.	.25–.38 in. (6.4–9.5)	<b>HBL10CM22S</b>
	½ in.	.38–.50 in. (9.5–12.7)	<b>HBL10CM23S</b>
	¾ in.	.38–.50 in. (9.5–12.7)	<b>HBL10CM35S</b>
	¾ in.	.50–.63 in. (12.7–15.9)	<b>HBL10CM36S</b>
	¾ in.	.63–.75 in. (15.9–19.1)	<b>HBL10CM37S</b>
	1.0 in.	.63–.75 in. (15.9–19.1)	<b>HBL10CM41S</b>



HBL6085



HBL10CM22S

## Electrical Standards

### Codes and Specifications

#### ABYC Standard, July 2015, E-11 Excerpts.

**11.4 DEFINITIONS** – For the purposes of this standard, the following definitions apply.

**11.4.11 Equipment Leakage Circuit Interrupter (ELCI)** - A residual current device which detects equipment ground fault leakage current and disconnects all current carrying conductors from the supply source at a preset trip threshold.

**11.4.14 Ground fault circuit interrupter (GFCI)** - A device intended for the protection of personnel that functions to de-energize a circuit, or portion thereof, within an established period of time when a current to ground exceeds some predetermined value that is less than that required to operate the overcurrent protective device of the supply circuit.

**11.4.34 Watertight** - Constructed so that water will not enter the enclosure under the test conditions specified in NEMA Standard 250, Type 6P or IEC Standard 60529 Type IP67.

**11.4.35 Weatherproof** - Constructed or protected so that exposure to the weather will not interfere with successful operation under the test conditions specified in NEMA Standard 250, Type 3 or IEC Standard 60529 Type IP54.

#### 11.11 GROUND FAULT PROTECTION – AC SYSTEMS

**11.11.1** An Equipment Leakage Circuit Interrupter (ELCI) or Type A Residual Current Device (RCD) shall be installed with or in addition to the main shore power disconnect circuit breaker(s) or at the additional overcurrent protection as required by E-11.10.2.8.3 whichever is closer to the shore power connection.

**11.11.1.1** Trip level shall be a maximum of 30mA. The trip time shall be a maximum of 100ms.

**11.11.1.4** The ELCI shall be readily accessible.

*Note: A ground fault circuit interrupter (GFCI) may be used on single phase AC circuits to provide additional protection for personnel and equipment.*

**11.11.5** GFCI receptacle devices shall meet the requirements of Underwriters Laboratories' standard UL 943, Ground Fault Circuit Interrupters and the requirements of UL 498, Electrical Attachment Plugs and Receptacles.

*Note: GFCI receptacle devices may be installed as part of a convenience outlet installation either in single outlet applications or in multiple feed through installations. (See E-11.13.3.5)*

#### 11.12 SWITCHES

**11.12.1.1** Switches shall have voltage ratings not less than the system voltage, current ratings not less than the connected load and shall be rated for the type of load, i.e., inductive or resistive.

**11.12.3.1** Switches used in branch circuits shall simultaneously open all ungrounded conductor(s) of the branch circuit.

#### 11.13 PLUGS AND RECEPTACLES

**11.13.1.1 Receptacles shall be installed in locations not normally subject to rain, spray, or flooding but if receptacles are used in such areas the following shall apply:**

**11.13.1.1.1 Receptacles installed in locations subject to rain, spray, or splash shall be weatherproof when not in use.**

*Note: Weatherproofing may be provided by means such as spring-loaded, self-closing, or snap type receptacle covers.*

**11.13.1.1.2** Receptacles installed in areas subject to flooding or momentary submersion shall be of a watertight design as may be provided by a threaded, gasketed cover.

**11.13.1.3** Receptacles and matching plugs used on AC systems shall not be interchangeable with receptacles and matching plugs used on DC systems.

**11.13.3.1** Receptacles shall be installed in boxes that meet the requirements of UL 514A, Metallic Outlet Boxes, or 514C, Non-metallic Outlet Boxes, Flush Device Boxes And Covers.

**11.13.3.2** Receptacles shall be of the grounding type with a terminal provided for the grounding (green) conductor as shown in Figure 11, Figure 12 and Figure 13 of ABYC E-11.

**11.13.3.3** Power wiring for receptacles shall be connected so that the grounded (white) conductor attaches to the terminal identified by the word "white" or a light color (normally white or silver). The ungrounded conductor(s) shall be attached to the terminal(s) identified by a dark color (normally brass or copper) and, optionally, the letters X, Y and Z or L1, L2 and L3.

**11.13.3.4** A branch circuit supplying a combination of receptacle loads and permanently connected loads shall not supply permanently connected loads in excess of the following:

**11.13.3.4.1** 600 watts for a 15 ampere circuit.

**11.13.3.4.2** 1000 watts for a 20 ampere circuit.

**11.13.3.5** If installed in a head, galley, machinery space, or on a weather deck, the receptacle shall be protected by a Type A (nominal 5 milliamperes) Ground Fault Circuit Interrupter (GFCI). (See E-11.11.)

*Note: GFCI receptacle devices are not necessarily ignition protected per E-11.5.1.4.*

#### 11.6.2.2 SHORE POWER

**11.6.2.2.1** Power Inlet - The receptacle, or receptacles, installed to receive a connecting cable to carry AC shore power aboard shall be a male type connector.

**11.6.2.2.2** Power inlets installed in locations subject to rain, spray, or splash shall be weatherproof whether or not in use.

**11.6.2.2.2.1** Power inlets installed in areas subject to flooding or momentary submersion shall be watertight whether or not in use.

**11.6.2.2.2.3** Metallic power inlets installed on metallic or carbon fiber reinforced boats using an isolation transformer or a galvanic isolator shall be insulated from metallic structure and components. On non-metallic boats using an isolation transformer or a galvanic isolator the power inlet shall be insulated from metallic components connected to the boat's ground.

**11.6.2.2.1.1** Shore Power Cable – On each boat equipped with an AC shore power system, a shore power cable that contains the conductors for the power circuit and a grounding (green) conductor shall be provided.

**11.6.2.2.1.2** Except where the shore power cable is permanently connected to the boat, the boat end of this cable shall be terminated with a locking and grounding female type connector to match the boat power inlet. (See Figure 12 and Figure 13 of ABYC E-11).

**11.6.2.2.1.3** The shore power cable shall be flexible cord with the minimum properties of Type SOW, STW, STOW, SEOW, or STOOV and shall be suitable for outdoor use. The shore connection end of this cable shall be fitted with a locking and grounding type plug with the required number of poles and shall comply with Article 555 of the National Electrical Code. (See Figure 13 and Table VII-A of ABYC E-11).

*EXCEPTION: Pin and sleeve devices in accordance with Figure 14 of ABYC E-11.*



# SECTION Z

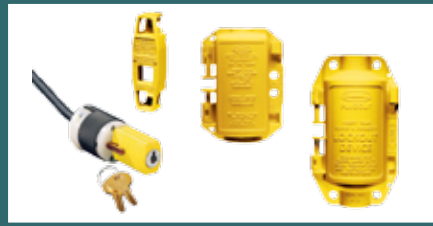
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Adapters and Starters



Lockout Devices



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# Other Wiring Products

## Features and Benefits

### Twist-Lock® Circuit Testers

The Hubbell Twist-Lock® Tester is an exclusive patented design that easily tests the circuit condition without the need for traditional measurement techniques. Whether it is a contractor, electrician, or entertainment stage crew, knowing that power is present at any receptacle or connector is critical. By plugging the tester into an outlet, an LED output will immediately provide the state of the circuit.

An easy to read card is provided with the tester, to help determine if the connections are made properly and in the correct position. This unique NEMA configuration ensures that the proper connection was made through an easy to read output display. It also easily attaches to a tool belt so it is available when needed.

- Quickly diagnose mis-wiring situation or application
- Great for dark, difficult to reach spaces
- No measurement readings to interpret
- UL 1436 listed



#### Housing Design

- Insulgrip® nylon housing for secure gripping
- Brass blades
- Steel (nickel plated) assembly screws
- Styles available: L21-20P, L21-30P, L5-20P, L5-30P, L5-30P Marine, L6-20P, L6-30P, L7-20P, L14-20P, L14-30P, L24-20P



#### Attachment Clip

- Carabiner style clip to secure to work belt



#### Proper Connection

- Easy to read LED output and condition tables

CONDITIONS	X	Y	Z	G
Correct	X	Y	Z	G
Open Neutral				G
Open Ground	X	Y	Z	
Open X		Y	Z	
Open Y	X		Z	G
Open Z	X	Y		G

 A photograph of the Twist-Lock Circuit Tester with its LED display and condition tables. The tester is a black and green device with a white faceplate and three green LEDs. A small white card with a grid of colored LEDs is attached to the side of the display. The tester is shown in a central position, with the two condition tables on either side.
 

CONDITIONS	X	Y	Z	G
X & N Rev.	X	Y	Z	▲
Y & N Rev.	X	Y	Z	G ▲
Z & N Rev.	X	Y	Z	G ▲
X & G Rev.		Y	Z	G ▲
Y & G Rev.	X		Z	G ▲
Z & G Rev.	X	Y		G ▲

# Other Wiring Products

## Circuit Testers

### Twist-Lock® Circuit Testers



Description	Rating	20 Amp		30 Amp	
		Configuration	Catalog Number	Configuration	Catalog Number
3-Phase Circuit Tester	3Ø 120/208V AC Min. Voltage: 90V AC	NEMA L21-20P 	<b>HBL3PT2511</b>	NEMA L21-30P 	<b>HBL3PT2811</b>
Circuit Tester		NEMA L5-20P 	<b>HBLT2311</b>	NEMA L5-30P 	<b>HBLT2611</b> <b>HBLT26CM11</b> (Marine)
	125V	NEMA L6-20P 	<b>HBLT2321</b>	NEMA L6-30P 	<b>HBLT2621</b>
	250V	NEMA L7-20P 	<b>HBLT2331</b>		
	277V	NEMA L14-20P 	<b>HBLT2411</b>	NEMA L14-30P 	<b>HBLT2711</b>
	125/250V	NEMA L24-20P 	<b>HBLT3721</b>		
	347V				



HBL3PT2511



HBLT26CM11

Note: Testers in other NEMA configurations can be developed upon request.

### SNAPConnect® Receptacle Wiring Tester with GFCI Test Button

Description	Catalog Number
Circuit Tester for SNAPConnect receptacle terminals, GFCI and standard receptacles.	<b>SNAPCTG</b>



SNAPCTG

### Receptacle Circuit Tester

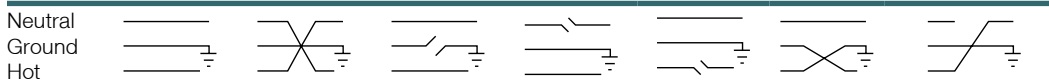
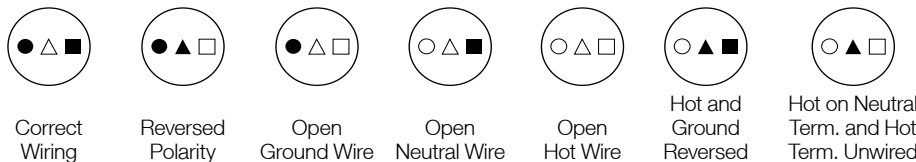


Description	Catalog Number
Receptacle circuit tester.	<b>HBL5200</b>

### How It Operates

The Hubbell HBL5200 Receptacle Circuit Tester has a simple arrangement of neon lights which visually indicate and identify various fault conditions in electrical circuits (see chart below). By plugging the HBL5200 Tester into a single phase, 125V, 2 pole, 3 wire outlet the combination of lighted and/or unlighted lamps will immediately indicate circuit condition.

- Large, easy to read symbols.
- Recessed indicating lamps with one piece Polycarbonate lens.
- Tough impact resistant nylon housing.
- User information and instructions printed on durable Polyester labels permanently attached to the tester.
- Rotatable labels can be easily read regardless of tester position.



Note: □ △ ○ Indicates Unlighted Lamp. ■ ▲ ● Indicates Lighted Lamp.  
When testing other receptacle types, use HBL5200 only with polarized adapters.

**CAUTION:** This device introduces low level current into the grounding path. Use with caution in critical care areas.



HBL5200

### GFCI Tester

Description	Rating	Catalog Number
Ground fault tester.	120V AC	<b>GFT2G</b>

- Designed to measure the trip level of portable or "wired-in" GFCI's in a range of 2-7mA. Leakage level can be adjusted from 2-7mA.
- Ideal for measuring leakage level of GFCI breakers, GFCI portables and GFCI receptacles.



GFT2G

# Other Wiring Products

## Features and Benefits

### Adapters and Fluorescent Starters

- Available in 6 different configurations
- One female slot end and one male blade end
- UL listed, except for adapter **HBL31CM29**



### Nylon Convenience Adapters

#### NEMA Configuration

Catalog Number	HBL2270	HBL2271	HBL2128	HBL2274	HBL2129	HBL31CM29*
Male Blade End	15A 125V NEMA 5-15P	15A 125V NEMA 5-15P	15A 125V NEMA 5-15P	15A 125V NEMA L5-15P	20A 125V NEMA L5-20P	30A 125V NEMA L5-30P
Female Slot End	20A 125V NEMA 5-20R	15A 125V NEMA L5-15R	20A 125V NEMA L5-20R	20A 125V NEMA 5-20R	20A 125V NEMA 5-20R	20A 125V NEMA 5-20R

Note: \*Not UL Listed.

**CAUTION:** Where adapters have different ratings on the blade and slot end the following precautions must be exercised in their use.  
 (1) Remember that overcurrent protection is determined by the blade end.  
 (2) The use of the adapter should be limited to the lowest rated end of the adapter in order to prevent overheating.  
 (3) Adapters do not provide GFCI, overcurrent or short circuit protection.

### Plug In Adapters

Description	Catalog Number
Male end - 2 wire parallel polarized blades, 15A, 125V. Female end - 3 wire 15A, 125V straight slot grounding.	<b>HBL5273L</b>
Male end - 3 wire crow foot 15A, 125V blades. Female end - 3 wire 15A, 125V straight slot grounding.	<b>HBL5289</b> ♦*
Male end - 3 wire 10A, 250V, 15A, 125V Twist-Lock® blades. Female end - 3 wire 15A, 125V straight slot grounding.	<b>9053A</b> ♦*
Male end - 3 wire 15A, 125V straight blade grounding. Female end - 10A, 250V, 15A 125V Twist-Lock® slots.	<b>9054A</b> ♦*

Note: ♦Must always be used with a grounded receptacle.  
 \*Not UL Listed.

### Fluorescent Starters

#### Neostart

The Hubbell Neostart is a glow discharge type of starter which combines fast starting speed with rugged, dependable operation. The Neostart lights the lamp very rapidly and insures proper lamp operation throughout rated life. Because of its rugged construction, it can be depended upon to withstand continued punishment resulting from lamp failure. In addition, it operates satisfactorily over a wide temperature range. In dual lamp circuits, the Neostart lights both lamps quickly and uniformly.

Lamps	Catalog Number
14, 15 and 20 watt lamps	<b>FS2</b>
13, 30 and 40 watt lamps	<b>FS4</b>
4, 6 and 8 watt lamps	<b>FS5</b>
22 watt circle line, 25 watt standard lamps	<b>FS25</b>



# Other Wiring Products

## Lockout Devices

### PLUGOUT®, Keyed PLUGOUT® and SWITCHOUT® Lockout Devices

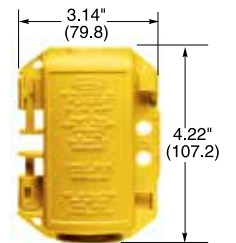
Description	Typical Devices Accommodated	Catalog Number
Small yellow lockout device.	15 and 20A straight blade plugs. 15A Twist-Lock® plugs.	<b>HLDMP</b>
Medium yellow lockout device.	15 and 20A, 125V straight blade plugs. 20 and 30A Twist-Lock® plugs.	<b>HLD</b>
Large yellow lockout device.	20, 30 and 60A metallic and non-metallic Pin and Sleeve, Hubbellock® and 50A Twist-Lock® plugs.	<b>HLD2</b>
Yellow SWITCHOUT device.	Toggle switch.	<b>HSLDPK2*</b>
Yellow lockout kit.	One each of above lockout devices.	<b>HLDKIT</b>
Yellow keyed PLUGOUT, keyed differently.	15 and 20A, 125V straight blade plugs with holes in blades.	<b>HKLD</b>
Yellow keyed PLUGOUT, keyed alike.	15 and 20A, 125V straight blade plugs with holes in blades.	<b>HKLDPK2*</b>

Note: \*Two devices per package.

### Cord Grip

Description	Catalog Number
Cord grip for ½ inch knockouts.	<b>HBL112*</b>

Note: \*Not UL Listed.



**HLDMP**



**HLD**



**HSLDPK2**



**HKLDPK2**



**HBL112**

# Other Wiring Products

## Lampholders

Lampholders provide lighting in unfinished areas, such as attics and basements.

### Porcelain White Lampholders



Catalog Number	<b>RL8804</b>	<b>RL8806</b>	<b>RL8812</b>	<b>RL8816</b>	<b>RL8822</b>
Description	Keyless, 4 Terminal Screws	Keyless, 6 inch Pigtails	Pull Chain, 2 Terminal Screws	Pull Chain, 6 inch Pigtails	Pull Chain with Receptacle, 2 Terminal Screws
Rating	660W 250V	660W 250V	660W 250V	660W 250V	660W 125V 15A 125V NEMA 5-15R

### Plastic White Lampholders



Catalog Number	<b>RL8504</b>	<b>RL8506</b>	<b>RL8512</b>	<b>RL8516</b>
Description	Keyless, 4 Terminal Screws	Keyless, 6 inch Pigtails	Pull Chain, 2 Terminal Screws	Pull Chain, 6 inch Pigtails
Rating	660W 600V	660W 600V	660W 250V	660W 250V

### Incandescent Brass Lampholders, Medium Base



Catalog Number	<b>RL101*</b>	<b>RL102*</b>	<b>RL105*</b>	<b>RL100**</b>	<b>RL106*</b>
Description	Turn Knob, On/Off	Turn Knob, Three Way	Push Through, On/Off	Keyless	Pull Chain, On/Off
Rating	250W 250V	250W 250V	660W 250V	660W 250V	660W 250V

Note: \*UL or cUL.  
\*\*UL or CSA.



# Other Wiring Products


## Fluorescent Lampholders

### Compact Fluorescent Lampholders



Catalog Number	<b>RL479HSM</b>	<b>RL413HSI</b>	<b>RL413HSM</b>	<b>RL426G24</b>	<b>RL42G11HSM</b>	<b>RL42G11H9</b>
Description	G23 base	GX23 base	GX23 base	G24Q-3, GX24Q-4	2G11 base, 4 pin	2G11 base, 4 pin
Lamp Type	5W, 7W, 9W	13W	13W	26-32W	18-55W	18-55W
Rating	75W, 600V	75W, 600V	75W, 600V	75W, 600V	75W, 600V	75W, 600V
Mounting	Horizontal, screw-down	Horizontal, snap-in	Horizontal, screw-down	Horizontal, screw-down	Horizontal, screw-down	Vertical 90°, snap-in

**RL42G11C**



Clip for 2G11 Base Lampholders, Adjustable, Snap-in

### High Output Fluorescent Lampholders



Catalog Number	<b>RL305*</b>	<b>RL306*</b>	<b>RL307</b>	<b>RL308</b>	<b>RL356</b>	<b>RL357</b>
Description	Plunger	Fixed	Plunger	Fixed	Plunger	Fixed
Lamp Type	Horizontal - Recessed double contact	Horizontal - Recessed double contact	Horizontal - Recessed double contact	Horizontal - Recessed double contact	Vertical - Power groove & jacketed lamps	Vertical - Power groove & jacketed lamps
Rating	660W, 600V	660W, 600V	660W, 600V	660W, 600V	660W, 600V	660W, 600V
Mounting	Pedestal, slide-on	Pedestal, slide-on	Slide-on, snap-in	Slide-on, snap-in	Slide-on, snap-in	Slide-on, snap-in

Note: \*UL or cUL.

### Medium Bi-Pin Fluorescent Lampholders - T8 and T12



Catalog Number	<b>RL320</b>	<b>RL325</b>	<b>RL325B</b>
Description	Disconnect 4 wire	Disconnect 4 wire	Shunted 2 wire
Lamp Type	Bi-pin/tall profile	Bi-pin/low profile	Bi-pin/low profile
Rating	660W, 600V	660W, 600V	660W, 600V
Mounting	Slide-on and snap-in with captive nut	Slide-on and snap-in with captive nut	Slide-on and snap-in

### Slimline Type Fluorescent Lampholder



<b>RL310*</b>	<b>RL311*</b>
Plunger	Fixed
Single pin	Single pin
660W, 600V	660W, 600V
Slide-on and snap-in	Slide-on and snap-in

Note: \*UL or cUL.

# Other Wiring Products

## Incandescent Lampholders

### HID Incandescent Lampholders, Porcelain Keyless



Catalog Number	<b>RL4221*</b>	<b>RL5221</b>	<b>RL3742</b>
Description	Mogul base	Mogul base	Medium base prefocus
Lamp Type	E39 socket	EX39 socket	Bayonet socket
Rating	1500W, 600V Max, 4KV or 5KV PULSE	1500W, 600V Max, 5KV PULSE	1200W, 250V
Mounting	Screw mount, 12 inch leads	Screw mount, 12 inch leads	Screw mount

Note: \*UL Listed, CSA Certified.

## Straight Body Keyless Porcelain



Catalog Number	<b>RL162</b>	<b>RL156</b>	<b>RL157</b>	<b>RL160</b>	<b>RL158</b>	<b>RL159</b>
Description	Medium base	Medium base	Medium base	Medium base	Medium base, low profile	Medium base, shallow base
Lamp Type	E26 socket	E26 socket	E26 socket	E26 socket	E26 socket	E26 socket
Rating	660W, 250V	660W, 250V	660W, 250V	660W, 250V	660W, 250V	660W, 250V
Mounting	Screw mount, screw terminals	Screw mount, 12 inch leads	NPSF1/8 hickey with terminals	NPSF1/8 hickey with 12 inch leads	Front mount, panel mount snap-in	Front mount, panel mount snap-in

## Surface and Sign Mount, Medium Base



Catalog Number	<b>RL152</b>	<b>RL153</b>	<b>RL161</b>	<b>RL163</b>	<b>RL164</b>
Description	Medium base, Porcelain, Pony Cleat	Medium Base, Plastic, Black, Pony Cleat	Medium base, Porcelain	Medium base, Porcelain	Medium base, Porcelain
Lamp Type	E26 socket	E26 socket	E26 socket	E26 socket	E26 socket
Rating	660W, 250V	660W, 250V	660W, 250V	660W, 250V	660W, 250V
Mounting	1 piece, surface mount	1 piece, surface mount	2 piece, surface mount	2 piece, sign mount with leads	2 piece, sign mount with terminals

# Other Wiring Products

## Lampholder Accessories

### Incandescent Lampholders, Medium Base



Catalog Number	RL124*	RL124H	RL202
Description	Pigtail Medium Base Socket with 6 inch Leads, Rubber with #18 Gauge Wire	Phenolic Medium Base Socket with Hook, Insulation Piercing Termination	Medium Lampholder to Lampholder Adapter, Pull Chain with Two 2-Prong Outlets without Ground
Rating	660W 250V	660W 250V	660W 125V 15A 125V

Note: \*cCSAus Certified only.

### Incandescent Adapters, Medium Base



Catalog Number	RL150	RL154	RL200	RL201
Description	Medium to medium base extension, Screw-in, E26 to E26 socket	Mogul to medium base adapter, Screw-in E39 to E26 socket	Outlet Adapter, 2 Prong Plug to Medium Lampholder	Medium Lampholder Adapter, Medium Lampholder to Outlet without Ground
Rating	250W, 250V	660W, 250V	15A 660W 125V 15A 125V NEMA 1-15R	15A 125V NEMA 1-15R

### Lamp Switches



Catalog Number	RL120	RL121	RL122	RL125
Description	Pull chain switch, 2 circuit, L1/L2/L1+L2/off	Pull chain switch, SPST on/off	Pull chain switch, L1/L2/L3/off	Rotary switch, SPST on/off
Rating	6A 125V AC, 3A 250V AC, 3A 125V "L"	6A 125V AC, 3A 250V AC, 3A 125V "L"	6A 125V AC, 3A 250V AC	6A 125V AC, 3A 250V AC, 3A 125V "L"

Note: 6 inch wire leads are #18 AWG AWM/TEW 105°C 600V.

### Snap-in Receptacles



Catalog Number	RR374	RR374W
Description	Single receptacle, Black	Single receptacle, White
Rating	15A 125V, 3 wire NEMA 5-15R	15A 125V, 3 wire NEMA 5-15R

- Accommodate panel thickness of .031 to .062 inch (0.7 to 1.5 mm).
- Panel cutout .95 x .95 inch (24.1 x 24.1 mm).
- #14 AWG 6 inch AWM/TEW FT1 105°C 600V on black and white leads.
- #14 AWG 6 inch AWM/TEW FT1 600V on green lead.

# Other Wiring Products

## Taps, Adapters, Plugs and Connectors



### Taps and Adapters



Color	RT600I	RT300I	—	RT200*	—
Ivory	—	—	—	—	—
Orange	—	—	<b>RT303</b>	—	—
White	<b>RT600W</b>	<b>RT300W</b>	—	—	<b>RT100W</b>
Description	Duplex Receptacle to Six Outlets with Ground	Single Receptacle to Three Outlets with Ground	Single Receptacle to Three Outlets, Heavy Duty Rubber, with Ground	Two Wire to U-Ground	Cube Tap without Ground
Rating	15A 125V AC NEMA 5-15	15A 125V AC NEMA 5-15	15A 125V AC NEMA 5-15	15A 125V AC NEMA 5-15	15A 125V AC NEMA 1-15

Note: \*UL Listed only.

### Plugs and Connectors



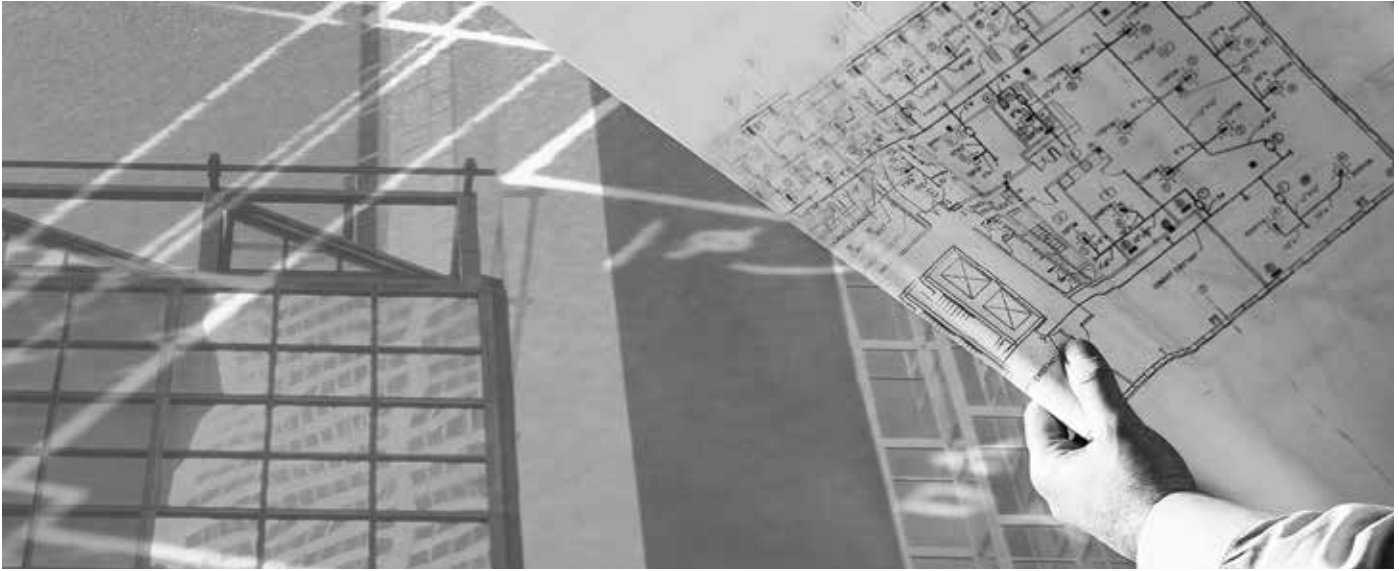
Color	RP101BK RP101W	RP102BK RP102W	RP646 —	RP648 —	RP649 —
Black	—	—	—	—	—
White	—	—	—	—	—
Description	Straight Plug, Polarized, Two Blade Light Duty	Straight Connector, Polarized, Two Blade, Light Duty	Straight Plug, Non-Polarized, Two Blade, Heavy Duty	Straight Plug, Polarized, Two Blade, Heavy Duty	Straight Connector, Polarized, Two Blade, Heavy Duty
Wire Range Cord	#16,18 AWG, Up to .250 inch Dia.	#16,18 AWG, Up to .250 inch Dia.	#14-18 AWG, Up to .330 inch Dia.	#14-18 AWG, Up to .330 inch Dia.	#14-18 AWG, Up to .330 inch Dia.
Rating	15A 125V NEMA 1-15P	15A 125V NEMA 1-15P	15A 125V NEMA 1-15P	15A 125V NEMA 1-15P	15A 125V NEMA 1-15P



Color	RP123I RP123W	RP123PI RP123PW
Ivory	—	—
White	—	—
Description	Straight Plug, Non-Polarized, Two Blade	Straight Plug, Polarized, Two Blade
Cord	SPT 1 and 2 Cord 18/2 & 16/2 AWG	SPT 1 and 2 Cord 18/2 & 16/2 AWG
Rating	15A 125V NEMA 1-15P	15A 125V NEMA 1-15P

# SECTION Tech

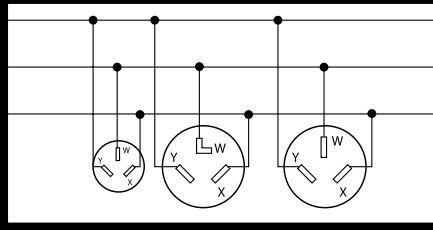
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- ◻ Push Button    ◻ Buzzer
- ◻ Bell    ◊ Annunciator
- ◀ Outside telephone
- ◻ Interconnecting telephone
- ◻ Telephone switchboard
- ⊕ Bell ringing transformer
- ◻ Electric door opener

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# General Technical Data

## Industry Standards – Wiring Device Standards

Standards of many types developed by and for our industry form a vital consideration in the design of our products. The following pages in this section briefly describe the functions of the organizations producing the standards which influence the safety and design of wiring devices.

**The American Boat and Yacht Council Inc. (ABYC)** is a not-for-profit membership organization that has been developing and updating the safety standards for boat building and repair for over 50 years. ABYC is actively involved with the International Organization for Standardization (ISO) and is a leader in education for the marine industry, as well as certification programs for marine technicians. ABYC's membership includes boat builders, boat owners, surveyors, boat yards, insurance companies, law firms, trade associations, marinas, dealerships, government agencies, educational institutions and equipment and accessory manufacturers. Over 400 volunteers donate time, expertise, and research while serving on technical committees, which develop and revise the ABYC standards and technical information reports. We ensure quality and professionalism in each of ABYC's services.

**UL LLC, formerly Underwriters Laboratories Inc. (UL)** A for-profit corporation, operating in two distinct roles, as a certifier and testing facility, and as a developer of safety standards. By its own definition, Underwriters Laboratories defines itself as follows: "Underwriters Laboratories Inc. founded in 1894, is chartered as a not-for-profit organization without capital stock, under the laws of the state of Delaware to establish, maintain, and operate laboratories for the examination and testing of devices, systems and materials to determine their relation to hazards to life and property." On January 1, 2012, UL moved to a for-profit structure.

Separate from product certifications, UL develops consensus standards for the U.S. UL evaluates products for paying "clients" and if the product submitted passes the requirements of the UL standard for which it is submitted, a UL "Listing" is granted which allows the manufacturer to use the UL manifest or "Label" on its products. Electrical inspectors or other Authorities Having Jurisdiction (AHJs) use UL Listings of products to determine acceptability of electrical installations. It is important to remember that UL is not an approval agency. It approves nothing, but lists a product as meeting minimum standards for safety. The Underwriters "Listing" mark on a product is generally accepted by the public and government agencies as evidence of a "safe" product, not necessarily a "quality" product.

**CSA Group, formerly Canadian Standards Association (CSA)** is a not-for-profit membership-based association and performs a function for manufacturers similar to that performed in the USA by Underwriters Laboratories Inc. (UL) and National Fire Protection Association (NFPA). CSA Standards develops product safety standards for Canada, which parallel UL standards in many aspects but are not always identical. CSA International evaluates products and grants paying clients "Certification" that their products meet CSA Standards. CSA Standards also sponsors the Canadian Electrical Code (CE Code).

**American National Standards Institute, Inc. (ANSI)** as the voice of the U.S. standards and conformity assessment system, the American National Standards Institute (ANSI) empowers its members and constituents to strengthen the U.S. marketplace position in the global economy while helping to assure the safety and health of consumers and the protection of the environment.

The Institute oversees the creation, promulgation and use of thousands of norms and guidelines that directly impact businesses in nearly every sector: from acoustical devices to construction equipment, from dairy and livestock production to energy distribution, and many more. ANSI is also actively engaged in accrediting programs that assess conformance to standards – including globally-recognized cross-sector programs such as the ISO 9000 (quality), ISO 14000 (environmental) and ISO 17025 (laboratory) management systems.

**The International Electrotechnical Commission (IEC)** is the leading global organization that prepares and publishes international standards for all electrical, electronic and related technologies. These serve as a basis for national standardization and as references when drafting international tenders and contracts. Through its members, the IEC promotes international cooperation on all questions of electrotechnical standardization and related matters, such as the assessment of conformity to standards, in the fields of electricity, electronics and related technologies.

IEC's international standards facilitate world trade by removing technical barriers to trade, leading to new markets and economic growth. Put simply, a

# General Technical Data

## Industry Standards – Wiring Device Standards

component or system manufactured to IEC standards and manufactured in country A can be sold and used in countries B through Z. IEC's standards are vital since they also represent the core of the World Trade Organization's Agreement on Technical Barriers to Trade (TBT), whose 100-plus central government members explicitly recognize that international standards play a critical role in improving industrial efficiency and developing world trade.

### **The National Electrical Code® (NEC®)**

The NEC is developed by NFPA's Committee on the National Electrical Code®, which consists of 19 Code-Making Panels and a Technical Correlating Committee. Work on the NEC is sponsored by the National Fire Protection Association (NFPA). The NEC is approved as an American National Standard by the American National Standards Institute (ANSI). It is formally identified as ANSI/NFPA 70.

First published in 1897, the NEC is updated and published every three years. The 2014 edition will be published in October 2013. Most states adopt the most recent edition within a couple of years of its publication. As with any "uniform" code, a few jurisdictions regularly omit or modify some sections, or add their own requirements (sometimes based upon earlier versions of the NEC, or locally accepted practices). However, the NEC is the least amended model code, even with it setting minimum standards. No court has faulted anyone for using the latest version of the NEC, even when the local code was not updated to the most recent edition.

**National Electrical Manufacturers Association (NEMA®)** An organization of over 450 manufacturers of electrical equipment, including, but not limited to, wiring devices, wire and cable, conduit, load centers, pressure wire connectors, circuit breakers, fuses, etc. NEMA is the "voice" of the electrical industry, and through it, standards are developed for electrical distribution.

Generally these standards promote interchangeability between products of one manufacturer with like products made by another manufacturer. In some cases, standards relating to product "performance" are also formulated by NEMA but these are the exception rather than the rule.

NEMA standards are not compulsory, but generally are accepted by those manufacturers that help to write them as a way of making their products more saleable and acceptable. However, many NEMA standards, such as ANSI/NEMA WD 6, are approved by the American Standards Institute and referenced

by mandatory UL and CSA product standards. NEMA standards are utilized by many consumers in writing specifications for the materials they purchase. NEMA does not evaluate or certify products or enforce regulations.

**General Services Administration Federal Supply Service (GSA) Federal Supply Service (FSS)** provides federal customers with the products, services, and programs to meet their supply, service, procurement, vehicle purchasing and leasing, travel and transportation, and personal property management requirements. Hubbell offers devices listed by UL as FED SPEC and can be found throughout this catalog.

**Occupational Safety and Health Administration (OSHA)** is a branch of the US Department of Labor which was created to assure safe and healthful working conditions for working men and women. OSHA uses regulations from the Federal Register, NFPA and the National Electric Code to establish and enforce safety standards for the workplace. It is important to note: OSHA does NOT approve products. OSHA enforces existing safety regulations.

### **Canadian Electrical Code, Part I (CE Code)**

The CE Code is developed by the Committee on CE Code, Part I, composed of members representing inspection authorities, manufacturing and utilizing industries, utilities and allied interests. The Committee meets annually to address reports submitted by 43 section subcommittees. Work on CE Code, Part I is sponsored by CSA Standards. The product standards of CSA Standards comprise the Canadian Electrical Code, Part II.

First published in 1927, the CE Code, Part I, is updated and published every three years, prior to 2006 every four years. The 2012 CE Code, Part I, is the latest edition. As with any "uniform" code, provinces and a few jurisdictions regularly modify or add their own requirements.

**NSF International, formerly National Sanitation Foundation (NSF)** NSF International is a not-for-profit organization founded in 1944 from the University of Michigan's School of Public Safety. NSF develops public health standards, and provides and enforces certifications to protect food, water, and beverages. NSF is the leading certifier of food service equipment.










# General Technical Data

## Certification Agencies and Markings

### Understanding Certification Marks:

Certification marks vary significantly with respect to testing required to achieve a particular mark. In some cases, (i.e.: Specification Grade), no outside certification agency is involved. The manufacturer decides which of their products they wish to be so identified. The following table for 15 and 20A Straight Blade receptacles demonstrates these wide differences. The understanding of these marks permits the user/specifier to make more meaningful product selections.

Understanding Product Certification Marks - 15 and 20 Amp Straight Blade Receptacles  
Products that carry certification marks must meet the specific testing standards indicated

Certification Mark	Description	UL 498	CSA, C22.2 No. 42	UL 498 Hospital Grade	CSA, C22.2 No. 42 M Hospital Grade	DESC WC596
<b>Spec Grade*</b>	Self Certified, No Testing Required- Advertising/Trade Name					
	Used on recognized component parts that are part of a Listed product or system intended for the United States. Component "C" intended for Canada. Recognized components are intended only for installation by Original Equipment Manufacturers (OEMs) within their Listed products, and are not accepted by electrical inspectors for general-use field installations due to limitations called Conditions Of Acceptability (COA).	X				
	Used on recognized component parts that are part of a Listed product or system intended for the United States and Canada. Recognized components are intended only for installation by Original Equipment Manufacturers (OEMs) within their Listed products, and are not accepted by electrical inspectors for general-use field installations due to limitations called Conditions Of Acceptability (COA).	X				
	Products found with this mark means Underwriters Laboratory or CSA International found that representative samples of this product met Underwriters Laboratory's published Standards for Safety intended for the US market.	X				
	Products found with this mark are certified primarily for the Canadian market.		X			
	Products intended for US and Canada.	X	X			
 • Hospital Grade	In addition to complying with general use requirements, this mark denotes these device have been specially designed and are subject to additional requirements of the standards.	X		X		
 • Hospital Grade	In addition to complying with general use requirements, this mark denotes these device have been specially designed and are subject to additional requirements of the standards.		X		X	
 Fed. Spec.	In addition to complying with general use grade requirements, this mark denotes receptacles also have been investigated for compliance with United States Federal Specification W-C-596.	X				X
 Fed. Spec. • Hospital Grade	In addition to complying with general use and hospital grade requirements, this mark denotes receptacles also have been investigated for compliance with United States Federal Specification W-C-596.	X		X		X

Note: \*Includes such variation as Premium Spec, Super Spec, etc.  
\*\*End Product test also required.

### Cross Reference Note:

Recognize that cross reference guides supplied by some manufacturers should be used only to determine compatible devices (rating and configuration). It does not, in any way, deal with performance levels (which will vary widely by manufacturer). Common catalog numbers are often used for convenience of selection. The use of the same catalog number is solely the discretion of the manufacturer. It in no way implies compliance to any standard or testing criteria.

# General Technical Data

## Industry Associations, Organizations and Standards

For convenience, the following listings define common acronyms for a variety of organizations.

### Standards Development Organizations: Organizations primarily involved in the development and/or promulgation of standards.

ANSI	American National Standards Institute.
CANENA	Consejo de Armonizacion de los Naciones de America.
CSA	Canadian Standards Association.
IEC	International Electrotechnical Commission.
IEEE	Institute of Electrical & Electronics Engineers, Inc.
ISA	The Instrumentation, Systems and Automation Society.
ISO	International Organization for Standardization.
LEEDS	Leadership in Energy and Environmental Design.
NFPA	National Fire Protection Association, Inc.
NSF	National Sanitation Foundation.
SAE	Society of Automotive Engineers.
SME	Society of Manufacturing Engineers.
USGBC	United States Green Building Council.
UL	Underwriters Laboratories Inc.



### Installation Codes

CEC Part I	Canadian Electrical Code, Part I.
NEC®	National Electrical Code®.
NOM	Normas Oficiales Mexicanas (Mexican Electrical Code).



### Industry Associations: Associations of companies or individuals for the purpose of standardization, trade, and professional development, etc.

ABYC	American Boat and Yacht Council.
ASTM	American Society for Testing and Materials.
BICSI	Building Industry Consulting Services International.
BOMA	Building Owner Management Association.
CANAME	Camara Nacional de Manufacturas Electricas.
CEMRA	Canadian Electrical Manufacturers Representative Association.
ECOC	Electrical Contractors of Canada.
EF-C	Electro-Federation-Canada.
EIA	Electronic Industries Alliance.
EPRI	Electric Power Research Institute.
IAEI	International Association of Electrical Inspectors.
IECI	Independent Electrical Contractors International.
IFMA	International Facilities Management Association.
NAED	National Association of Electrical Distributors.
NAW	National Association of Wholesalers.
NECA	National Electrical Contractors Association.
NEMA	National Electrical Manufacturers Association.
NEMRA	National Electrical Manufacturers Representatives Association.
NMDA	National Marine Distributor Association.
NMRA	National Marine Representative Association.
SEMI	Semi Conductor Equipment and Material International.
TIA	Telecommunication Industry Association.



# General Technical Data


## Codes and Standards Organizations

For convenience, the following listings define common acronyms for a variety of organizations.

**Certification Agencies:** Primarily involved in certification of products or manufacturers to standards developed by the certification agency or by others.

ANCE	National Association of Normalization and Certification of the Electrical Sector.
BSI	British Standards Institute.
CE	Self Certification Marking of European Community.
CCC	China Compulsory Certification.
CSA	Canadian Standards Association or CSA International.
FM	Factory Mutual.
NRTL	Nationally Recognized (by OSHA) Testing Laboratory.
PSE	Product Safety Electrical Appliance and Material (Japan).
TÜV	TÜV Rheinland of N.A., Inc.
UL	Underwriters Laboratories Inc.
VDE	Verband Deutscher Elektrotechniker (Germany).



Note:  Hubbell products are in the process of being certified in Mexico. Many have already been certified. Consult with the factory for specific data.

## Government Agencies

DSCC	Defense Supply Center – Columbus.
EU	European Union.
FCC	Federal Communications Commission.
IAPA	Industrial Accident & Prevention Association (Canada).
OSHA	Occupational Safety and Health Administration.

Copies of standards referred to on the preceding pages may be purchased from the following:

**American Boat and Yacht Council, Inc. (ABYC)**  
613 Third Street, Suite 10  
Annapolis, MD 21403  
USA

**The American National Standards Institute (ANSI)**  
25 West 43rd Street,  
(between 5th and  
6th Avenues), 4 floor  
New York, NY 10036

or

1819 L Street, NW  
(between 18th and  
19th Streets), 6th floor  
Washington, DC 20036  
USA

**CSA Group (CSA)**  
178 Rexdale Boulevard  
Toronto, Ontario  
M9W 1R3  
CANADA

**National Electrical Manufacturers Association (NEMA)**  
1300 North 17th Street  
Rosslyn, VA 22209  
USA

**National Fire Protection Association (NFPA)**  
1 Batterymarch Park  
Quincy, MA 02169-7471  
USA

**NSF International (NSF)**  
789 North Dixboro Road  
Ann Arbor, MI 49105  
USA

**The International Electrotechnical Commission (IEC)**  
IEC Central Office  
3, rue de Varembé  
P.O. Box 131  
CH - 1211 GENEVA 20  
Switzerland

**Asociacion Nacional de Normalizacion y Certificacion del Sector Electrico A.C. (NOM – ANCE)**  
Ibsen No.13,  
Colonia Chapultepec Polanco,  
C.P.11560 México, D.F.,  
Conmutador 5280-6775

**Occupational Safety and Health Administration (OSHA)**  
Occupational Safety & Health Administration  
200 Constitution Avenue, NW  
Washington, DC 20210  
USA

**UL LLC (UL)**  
Underwriters Laboratories Inc.  
333 Pfingsten Road  
Northbrook, IL 60062-2096  
USA



# General Technical Data

## AC Switch Data and Horsepower Explanation

### AC Test Requirements

When AC general use switches were considered by the industry and Underwriters' Laboratories, Inc. thought was given to the ratings and it was decided to rate the switches in accordance with NEC branch circuit ratings of 15, 20 and 30 amperes. It was also decided to test the switch for all the loads that could be applied to a branch circuit. Therefore, all AC switches are tested on resistance, tungsten lamp and inductive loads to 100% of switch rating.

### Underwriters' Laboratories and Canadian Standards Association Test requirements for AC General Use Switches

In order to be listed by Underwriters' Laboratories, Inc. and certified by CSA International, all 15, 20 and 30 amperes 120/277V AC switches must perform, without failure, the following sequence of tests.

1. An overload test of 100 cycles at 4.8 times rated current and 40-50% power factor and rated voltage. This overload test is performed at 144 amps, 277 volts for 30 ampere switches at 6-10 cycles per minute.
2. 10,000 cycles on a plain resistance load at full rating of 15, 20 or 30 amperes, at 277 volts at 18-24 cycles per minute.
3. 10,000 cycles on an inductive load of either 15, 20 or 30 amperes at 277 volts, 80% power factor at 24 cycles per minute.
4. 10,000 cycles at 15, 20 or 30 amperes, 120 volts on a tungsten filament lamp load at 6-10 cycles per minute.
5. Temperature rise at test-rated load. In this test, temperature rise must not exceed 30 degrees Celsius.
6. A switch shall withstand, without breakdown, 1500 volts for 1 minute between live parts of opposite polarity and between live parts and dead metal parts, with the switch at the maximum operating temperature reached in intended use.

### Explanation of "Horsepower" Ratings

Manual motor controllers marked with Horsepower Ratings are suitable for controlling the Motor Loads of the HP ratings shown on the manual motor controllers for that operating voltage as well as for lower HP ratings.

To qualify for an HP rating, a manual motor controllers is tested at (6) six times the full load Motor Current corresponding to the HP rating marked on the switch. (For DC Motor Controllers, the test is made at 10 times the full load Motor Current corresponding to the DC HP rating marked on the switch). The test consists of 50 on-off operations at this load and the test is conducted on (6) six samples. For  $\frac{3}{4}$  HP 120 - 240 volts AC rating, (2) two sets of (6) six samples each are tested in addition to the regular overload, endurance, temp. rise and dielectric tests. The test circuit characteristics are:

	For $\frac{3}{4}$ HP 120V AC	For $\frac{3}{4}$ HP 240V AC
Closed Circuit Volts	120 volts AC	240 volts AC
Current	82.8 amps	41.4 amps
Power Factor	0.40-0.50	0.40-0.50

*Note: Current at 240V AC is  $\frac{1}{2}$  that at 120V AC*

All manual motor controllers must be in good operating condition after the tests have been completed. There must be no excessive arcing, welding or burning of the contacts nor arc-over to the ground (the manual motor controller frames are grounded during the stalled rotor test).

# General Technical Data

## Wiring Device Standards and Testing

### Wiring Device Standards

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There are many different marketing terms in the electrical industry to describe the various electrical receptacles available from different manufacturers. Some of these terms include: Spec-Grade, Commercial, Heavy Duty, Industrial, Hard-Use, etc. There are no clear or universal definitions for these terms. There is no criteria established to differentiate one term from the next. Reliance solely upon these terms is not a reliable measure of performance or durability in a given application.

Underwriters Laboratories (UL) recognized a need to categorize receptacles based on application and expectations of performance. As a result, UL verifies performance to the following designations. Here are brief descriptions of each:



**General Use - UL 498** – All duplex receptacles are required to meet these general requirements. Devices bearing the UL mark for general use have been tested to insure they can safely provide power in typical everyday usage (vacuum, lamps, electronics, etc.).



Fed. Spec.

**Fed. Spec. - W-C-596** – The Federal Government wanted some way to determine that a receptacle performed better than average and would withstand the tougher demands of institutional use (post offices, military installations, prisons, etc.). Fed. Spec. listing identifies receptacles as having construction features, marking specifications and performance requirement (i.e., plug retention, increased cycle testing) beyond the requirements of the general use listing.



• Hospital Grade

**Hospital Grade** – In addition to compliance with general use requirements, Hospital Grade receptacles must meet performance criteria designed to test: ground reliability, assembly integrity, overall strength and reliability. Hospital Grade devices are marked with a green dot on their face.



Fed. Spec.

• Hospital Grade

**Hospital Grade Fed. Spec.** – Receptacles meeting this designation meet requirements and have completed test programs for both Fed. Spec. and Hospital Grade receptacles. All Hubbell Hospital Grade devices are UL listed to this designation.

These UL designations are a better determinant of performance than marketing descriptions, for performance and durability.

# General Technical Data

## Wiring Device Standards and Testing

### Testing for Hospital Grade and Fed. Spec. Listing of Hubbell Receptacles, Plugs and Connectors

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All Hubbell Hospital Grade products are tested quarterly in our factories with Underwriters Laboratories.

#### Receptacles

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**Fed. Spec. Test: Ground Pin Retention Test** - The grounding contact of the receptacle is conditioned by twenty insertions with a 0.204 inch oversized diameter pin. After conditioning, a 0.184 inch diameter pin is inserted in the grounding contact must be capable of supporting a weight of at least 4 ounces for one minute.

**Fed. Spec. Test: Power Blade Retention Test** - A test plug with a single oversized blade measuring 0.075 inch thick is inserted into each current carrying contact for twenty conditioning cycles. When the conditioning cycles are completed, each contact must be capable of supporting, for one minute, 1.5 pounds secured to a single 0.055 inch thick solid steel blade without holes.

**HG Test: Abrupt Removal of Plug Test** - A steel bodied test plug with blades made of brass is inserted into the receptacle. A 10 pound weight dropped from at least 24 inches, pulls the plug out of the receptacle abruptly. This test is done eight times with the receptacle rotated in different positions to create the greatest stress to the face and contacts. Then, with the receptacle facing down, the grounding contact must retain a 4 ounce grounding pin with a 0.184 inch diameter for one minute. After this test there shall be no breakage of the receptacle that interferes with the receptacle function or to the integrity of the enclosure.

**Fed. Spec. Test: Assembly Security Test** - A force of 100 pounds is applied through the slots of the receptacle into the base while the bridge is supported at its screw mounting positions. Each receptacle is then examined for damage.

#### Plugs and Connectors

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**HG Test: Impact Test** - A plug or connector wired with the minimum size flexible cord is subjected to an impact from a 10 pound cylindrical weight having a flat face with a 2 inch diameter dropped from a height of 18 inches. After the test, there shall be no breakage or other damage that may effect the function of the device.

**HG Test: Mechanical Drop Test** - The cord connector is wired to #18 AWG flexible cord and suspended horizontally. It is released so it impacts a hardwood surface 45 inches below the point of suspension. This is repeated for 1,300 cycles. After the test, there shall be no breakage, deformation or other effect that may interfere with the function of the device.

**HG Test: 500 Pound Crush Test** - A wired plug or connector is placed between two hardwood slabs while subjected to a force which is progressively increased to 500 pounds. After the test, there shall be no breakage, deformation or other effect that may interfere with the function of the device.

**HG Test: Strain Relief Test** - While assembled to a plug or connector but not wired to the terminals; the cord must remain securely fastened after a straight pull of 30 pounds and a rotary motion within 3 inch circles with a 10 pound force applied for two consecutive hours. Displacement of conductors, insulation and outer jacket of the flexible cord shall not exceed 0.031 inch. There shall be no cuts, rips or tears in the insulation of the cord.

# General Technical Data

## RoHS, WR, TR and LED Power Descriptions



### RoHS - Restriction of Hazardous Substances

This EU Directive, 2002/95/EC, prohibits the use of mercury, cadmium, lead, chromium VI, PBB (polybrominated biphenyls) and PBDE (polybrominated diphenyl ethers) in certain electrical products. The regulatory maximums for these items are 0.01%, by weight, for cadmium and 0.1%, by weight, for the other five items in each "homogenous unit" contained within that product. There are certain exemptions available from the RoHS requirements.



### Weather Resistant Receptacles

Per National Electrical Code (NEC®) Article 406.9; all 125 and 250 volt, 15 and 20 amp non-locking receptacles for use in damp or wet locations shall be a listed weather resistant type. Listed devices are required to have a WR marking on the face visible when installed.



### Tamper-Resistant Receptacles

Per National Electrical Code (NEC®) Article 406.12; all 125 volt, 15 and 20 amp receptacles in dwelling units, lodging guest rooms and suites, and child care facilities shall be a listed tamper resistant type. Dwelling units are defined as a single unit, providing complete and independent living facilities for one or more persons, including permanent provisions for living, sleeping, cooking and sanitation. Listed devices are required to have a TR marking on the face visible when installed without a cover plate.



### LED Power Indicators

Most popularly used to identify emergency circuits in hospitals, the LED power indicators are bright enough to be visible in low light as well as bright daylight conditions.

## Tamper-Resistant SG Series Duplex Receptacle, Hospital Grade. How the SG Tamper-Resistant Receptacle Works.

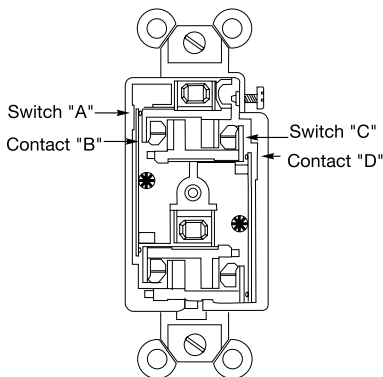


Figure 1

As shown in Figure 1, Switch "A" energizes the left hand Contact "B" and Switch "C" energizes the right hand Contact "D". The same arrangement applies to the lower portion of the outlet.

If, for example, a metallic object is inserted into the left power Contact "B" only, the object is not energized because it requires the additional insertion of a similar object in the opposite Contact "D" to move the slider to close Switch "A".

Similarly, if an object is inserted into the right hand slot only, it cannot become energized unless an additional object is inserted in the opposite slot to close Switch "C".

In other words it requires the presence of an object in both right and left hand contacts to energize the device. This condition is in practice fulfilled only by the insertion of the proper electrical plug as shown in Figure 2.

Remember, this receptacle can be used with either a 2 or 3 wire plug. No other tamper-resistant receptacle on the market can provide you with greater reliability and durability than the Hubbell hospital grade tamper resistant receptacle.

Complies with requirements of NEC Article 517-18(c).

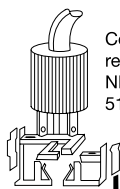


Figure 2

# General Technical Data

## NEMA and IEC Classifications

### Comparison Between NEMA Enclosure Type Numbers and IEC Enclosure Classification Designations

IEC Publication 60529 Classification of Degrees of Protection Provided by Enclosures provides a system for specifying the enclosures of electrical equipment on the basis of the degree of protection provided by the enclosure. IEC 60529 does not specify degrees of protection against mechanical damage of equipment, risk of explosions, or conditions such as moisture (produced for example by condensation), corrosive vapors, fungus, or vermin. NEMA Standards Publication 250 does test for environmental condition such as corrosion, rust, icing, oil, and coolants. For this reason, and because the tests and evaluations for other characteristics are not identical, the IEC Enclosure Classification Designations cannot be exactly equated with NEMA Enclosure Type Numbers. The IEC designation consists of the letters IP followed by two numerals. The first characteristic numeral indicates the degree of protection provided by the enclosure with respect to persons and solid foreign objects entering the enclosure. The second characteristic numeral indicates the degree of protection provided by the enclosure with respect to the harmful ingress of water.

The table below provides an equivalent conversion from NEMA Enclosure Type Numbers to IEC Enclosure Classification Designations. The NEMA Types meet or exceed the test requirements for the associated IEC Classifications; for this reason the table cannot be used to convert from IEC Classifications to NEMA Types.

### Conversion of NEMA Type Numbers to IEC Classification Designations

(Cannot be used to convert IEC classification designations to NEMA type numbers)

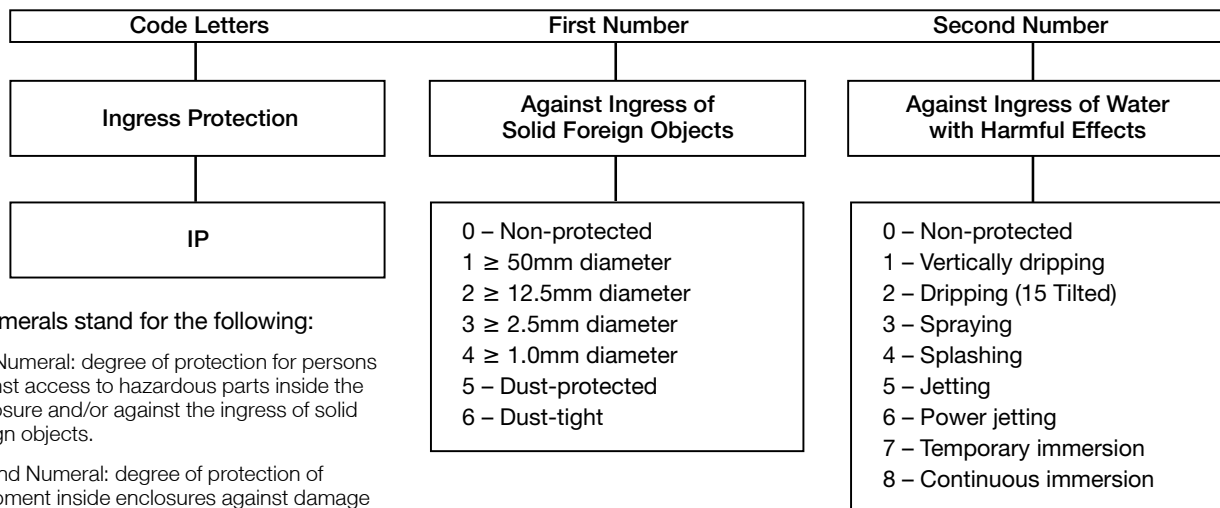
NEMA Enclosure Type Number	IEC Enclosure Classification Designation	Basic Description
1	IP10	General Purpose
2	IP11	Drip-proof- Indoor
3	IP54	Dusttight, Raintight and Sleet (Ice) Resistant- Outdoor
3R	IP14	Rainproof and Sleet (Ice) Resistant- Outdoor
3S	IP44, IP54	Dusttight, Raintight and Sleet (Ice) Proof- Outdoor
4	IP56	Watertight and Dusttight- Indoor and Outdoor
4X	IP56	Watertight, Dusttight and Corrosion-Resistant - Indoor and Outdoor
5	IP52	Superseded by Type 12 for Control Apparatus
6	IP67	Submersible, Watertight, Dusttight and Sleet (Ice) Resistant- Indoor and Outdoor
12	IP52	Industrial Use, Dusttight and Driptight- Indoor
12K	IP52	Industrial Use, Dusttight and Driptight with Knockouts- Indoor
13	IP54	Oiltight and Dusttight- Indoor

### Elements of the IP Code and Their Meanings - In Accordance with Standard IEC 60529

IP Suitability Ratings are a system for classifying the degree of ingress protection provided by enclosures of electrical equipment. Generally, the higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.

### Example: IP67 = Ingress Protection/Dust-Tight/Temporary Immersion

#### Meaning for the Protection of Equipment



The numerals stand for the following:

1. First Numeral: degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.
2. Second Numeral: degree of protection of equipment inside enclosures against damage from the ingress of water.



# General Technical Data

## Enclosure Types for Self-Certified Non-Hazardous (Unclassified) Locations

	<b>NEMA Standards Publication No. 250 Enclosures for Electrical Equipment (1000 Volts maximum)</b>	<b>UL50E Standard for Enclosures for Electrical Equipment Environmental Considerations</b>	<b>CAN/CSA C22.2 No. 94.2 Special Purpose Enclosures</b>
<b>Designation</b>	<b>Intended Use and Description</b>	<b>Intended Use and Description</b>	<b>Intended Use and Description</b>
<b>Definition</b>	An enclosure is a surrounding case constructed to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.	Enclosure - A surrounding case constructed to provide a degree of protection against incidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.	Enclosures...provide a degree of protection against accidental contact with the enclosed equipment, and to the enclosed equipment, against specified environmental conditions.
<b>Type 1</b>	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.	Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.	No CSA equivalent.
<b>Type 2</b>	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, and to provide a degree of protection against dripping and light splashing of non-corrosive liquids.	Indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.	An enclosure for indoor use, constructed so as to provide a degree of protection against dripping and light splashing of non-corrosive liquids, and falling dirt.
<b>Type 3</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and that will be undamaged by the external formation of ice on the enclosure.	Outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, and wind blown dust; undamaged by the external formation of ice on the enclosure.
<b>Type 3X</b>	Same as above and corrosion resistant.	Same as above and corrosion resistant.	Same as above and corrosion resistant.
<b>Type 3R</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure.	Outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain and snow, undamaged by the external formation of ice on the enclosure.
<b>Type 3RX</b>	Same as above and corrosion resistant.	Same as above and corrosion resistant.	Same as above and corrosion resistant.
<b>Type 3S</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and in which the external mechanism(s) remain operable when ice laden.	Outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and to provide for operation of external mechanisms when ice laden.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, and windblown dust, the external mechanism(s) remain operable while ice covered.
<b>Type 3SX</b>	Same as above and corrosion resistant.	Same as above and corrosion resistant.	Same as above and corrosion resistant.
<b>Type 4</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water, and that will be undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, windblown dust, splashing and hose-directed water; undamaged by the external formation of ice on the enclosure.
<b>Type 4X</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against rain, snow, windblown dust, splashing and hose-directed water, undamaged by the external formation of ice on the enclosure; resists corrosion.

# General Technical Data

## Enclosure Types for Self-Certified Non-Hazardous (Unclassified) Locations

	<b>NEMA Standards Publication No. 250 Enclosures for Electrical Equipment (1000 Volts maximum)</b>	<b>UL50E Standard for Enclosures for Electrical Equipment Environmental Considerations</b>	<b>CAN/CSA C22.2 No. 94.2 Special Purpose Enclosures</b>
<b>Designation</b>	<b>Intended Use and Description</b>	<b>Intended Use and Description</b>	<b>Intended Use and Description</b>
<b>Type 5</b>	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, fibers, and flyings; and to provide a degree of protection against dripping and light splashing of liquids.	Indoor use primarily to provide a degree of protection against settling airborne dust, falling dirt, and dripping non-corrosive liquids.	An enclosure for indoor use, constructed so as to provide a degree of protection against dripping and light splashing of non-corrosive liquids and settling dust, lint, fibers, and flyings.
<b>Type 6</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose directed water and the entry of water during occasional temporary submersion at a limited depth; and that will be undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during occasional temporary submersion at a limited depth, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth; undamaged by the external formation of ice on the enclosure.
<b>Type 6P</b>	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during prolonged submersion at a limited depth; and that will be undamaged by the external formation of ice on the enclosure.	Indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth, and damage from external ice formation.	An enclosure for either indoor or outdoor use, constructed so as to provide a degree of protection against the entry of water during prolonged submersion at a limited depth; undamaged by the external formation of ice on the enclosure; resists extended corrosion.
<b>Type 12</b>	Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against dripping and light splashing of liquids.	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.	An enclosure for indoor use, constructed so as to provide a degree of protection against circulating dust, lint fibers, and flyings; dripping and light splashing of non-corrosive liquids; and provided with knockouts.
<b>Type 12K</b>	Enclosures constructed (with knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against dripping and light splashing of liquids.	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.	An enclosure for indoor use, constructed so as to provide a degree of protection against circulating dust, lint fibers, and flyings; dripping and light splashing of non-corrosive liquids; and provided with knockouts.
<b>Type 13</b>	Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, fibers, and flyings; and against the spraying, splashing, and seepage of water, oil, and non-corrosive coolants.	Indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and non-corrosive coolant.	An enclosure for indoor use, constructed so as to provide a degree of protection against circulating dust, lint, fibers, and flyings; seepage and spraying of non-corrosive liquids including oils and coolants.

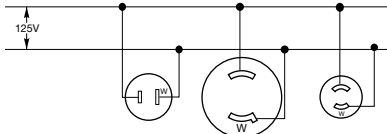
# General Technical Data

## Circuit Wiring Diagrams

### Wiring Diagrams for NEMA Configurations

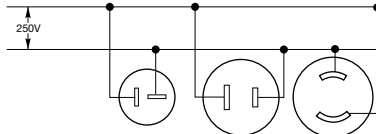
(Configurations shown are for female devices)

#### 125V – 2P, 2W



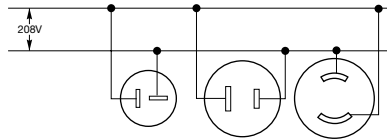
ANSI/NEMA WD-6 1-15R L1-15R ML1-R

#### 250V – 2P, 2W



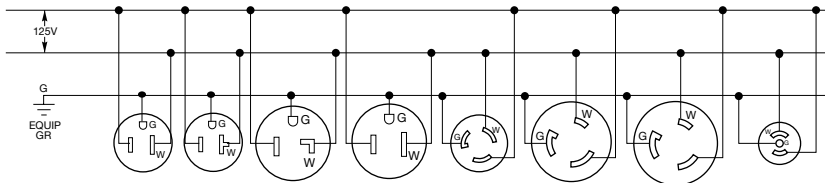
ANSI/NEMA WD-6 2-20R 2-30R L2-20R

#### 208V AC Line-to-Line\* – 2P, 2W



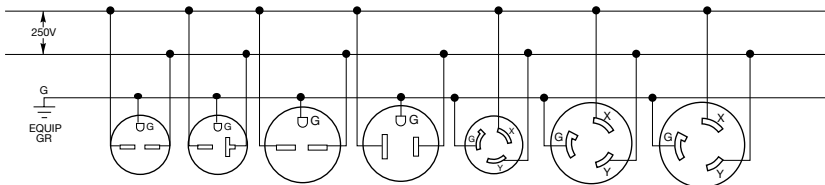
ANSI/NEMA WD-6 2-20R 2-30R L2-20R

#### 125V – 2P, 3W – Grounding



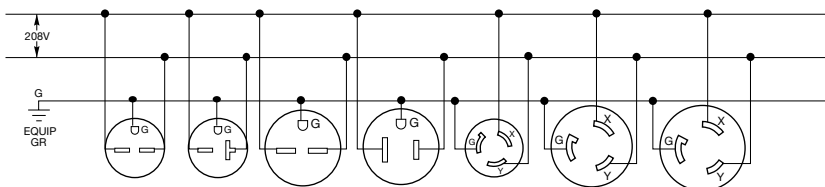
ANSI/NEMA WD-6 5-15R 5-20R 5-30R 5-50R L5-15R L5-20R L5-30R ML2-R

#### 250V – 2P, 3W – Grounding



ANSI/NEMA WD-6 6-15R 6-20R 6-30R 6-50R L6-15R L6-20R L6-30R

#### 208V AC Line-to-Line\* – 2P, 3W – Grounding



ANSI/NEMA WD-6 6-15R 6-20R 6-30R 6-50R L6-15R L6-20R L6-30R

Note: \*Does NOT encompass 208V AC Line-to-Neutral.

The above diagrams are intended to show device terminal identification only.

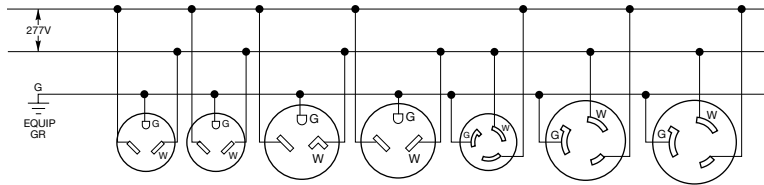
# General Technical Data

## Circuit Wiring Diagrams

### Wiring Diagrams for NEMA Configurations

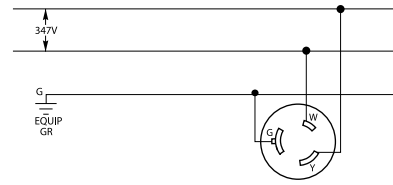
(Configurations shown are for female devices)

#### 277V AC – 2P, 3W – Grounding



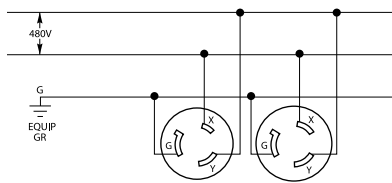
ANSI/NEMA WD-6 7-15R 7-20R 7-30R 7-50R L7-15R L7-20R L7-30R

#### 347V AC – 2P, 3W – Grounding



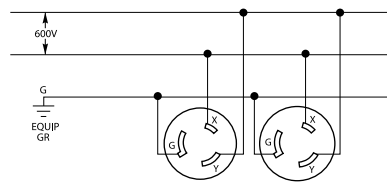
ANSI/NEMA WD-6 L24-20R

#### 480V AC – 2P, 3W – Grounding



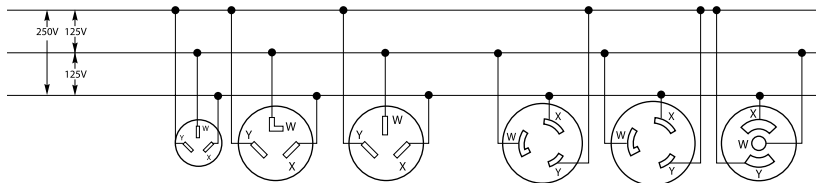
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#### 600V AC – 2P, 3W – Grounding



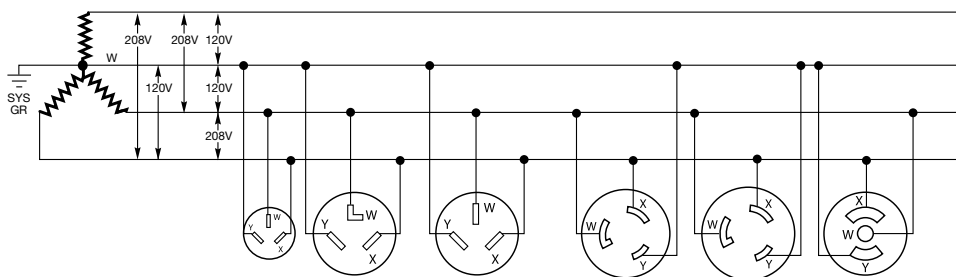
ANSI/NEMA WD-6 L9-20R L9-30R

#### 125/250V – 3P, 3W



ANSI/NEMA WD-6 10-20R 10-30R 10-50R L10-20R L10-30R ML3-R

#### 1Ø 120/208YV AC – 3P, 3W



ANSI/NEMA WD-6 10-20R 10-30R 10-50R L10-20R L10-30R ML3-R

Note: The above diagrams are intended to show device terminal identification only.

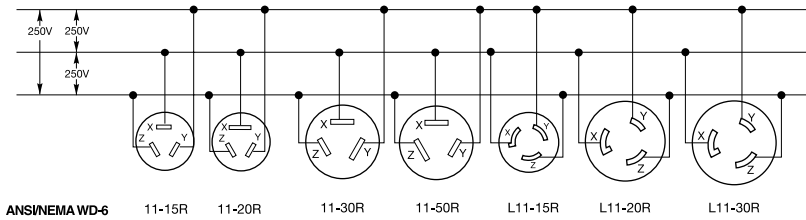
# General Technical Data

## Circuit Wiring Diagrams

### Wiring Diagrams for NEMA Configurations

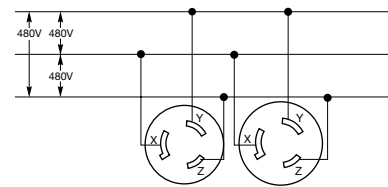
(Configurations shown are for female devices)

#### 3Ø 250V AC – 3P, 3W



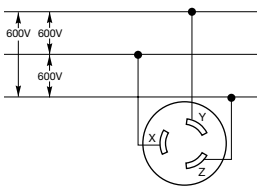
ANSI/NEMA WD-6 11-15R 11-20R 11-30R 11-50R L11-15R L11-20R L11-30R

#### 3Ø 480V AC – 3P, 3W



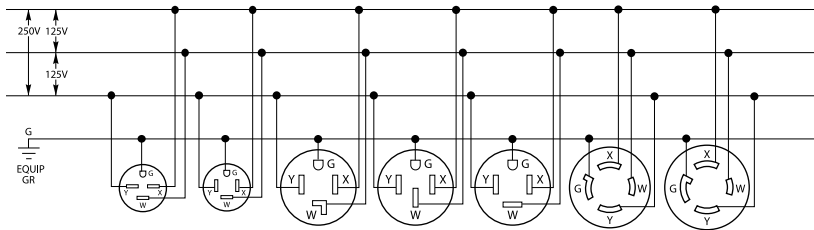
ANSI/NEMA WD-6 L12-20R L12-30R

#### 3Ø 600V AC – 3P, 3W



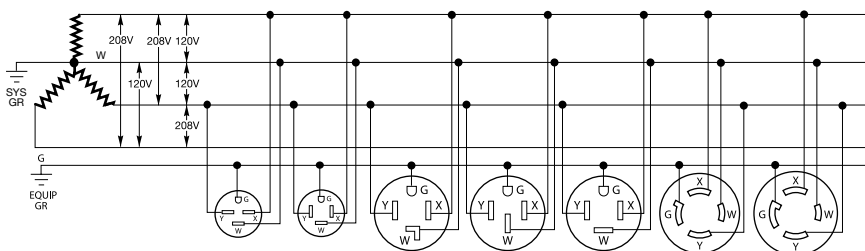
ANSI/NEMA WD-6 L13-30R

#### 125/250V – 3P, 4W



ANSI/NEMA WD-6 14-15R 14-20R 14-30R 14-50R 14-60R L14-20R L14-30R

#### 1Ø 120/208YV AC – 3P, 4W – Grounding



ANSI/NEMA WD-6 14-15R 14-20R 14-30R 14-50R 14-60R L14-20R L14-30R

Note: The above diagrams are intended to show device terminal identification only.



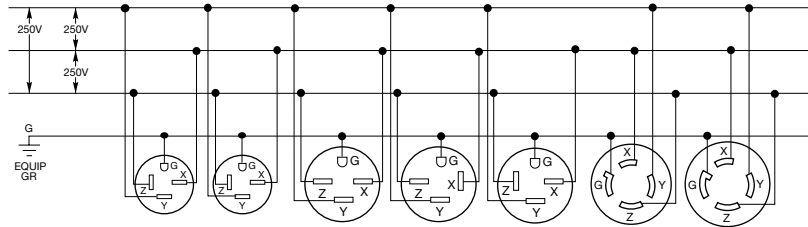
# General Technical Data

## Circuit Wiring Diagrams

### Wiring Diagrams for NEMA Configurations

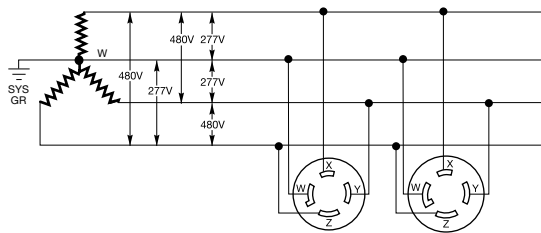
(Configurations shown are for female devices)

#### 3Ø 250V – 3P, 4W – Grounding



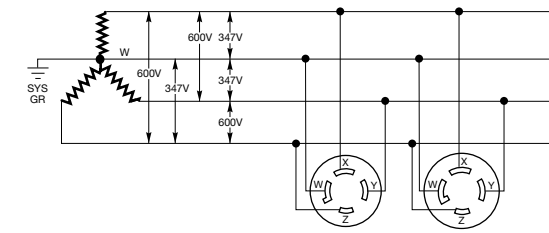
ANSI/NEMA WD-6 15-15R 15-20R 15-30R 15-50R 15-60R L15-20R L15-30R

#### 3ØY 277/480V AC – 4P, 4W



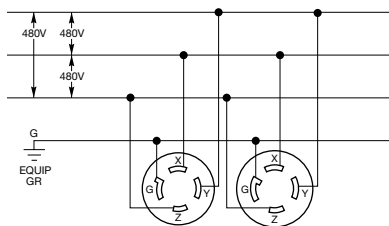
ANSI/NEMA WD-6 L19-20R L19-30R

#### 3ØY 347/600V AC – 4P, 4W



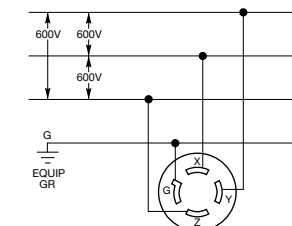
ANSI/NEMA WD-6 L20-20R L20-30R

#### 3Ø 480V AC – 3P, 4W – Grounding



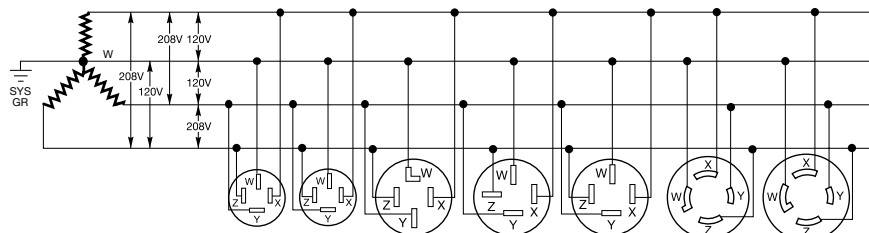
ANSI/NEMA WD-6 L16-20R L16-30R

#### 3Ø 600V AC – 3P, 4W – Grounding



ANSI/NEMA WD-6 L17-30R

#### 3ØY 120/208V AC – 4P, 4W



ANSI/NEMA WD-6 18-15R 18-20R 18-30R 18-50R 18-60R L18-20R L18-30R

Note: The above diagrams are intended to show device terminal identification only.

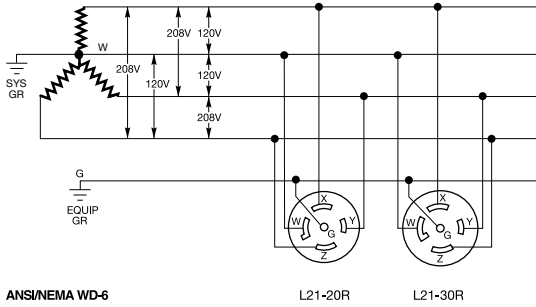
# General Technical Data

## Circuit Wiring Diagrams

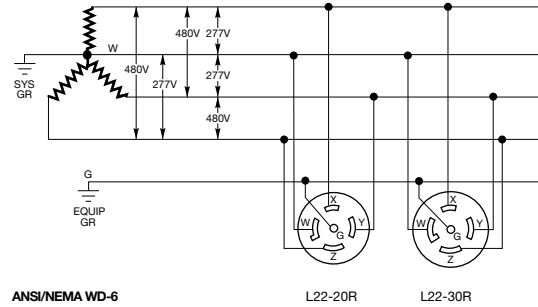
### Wiring Diagrams for NEMA Configurations

(Configurations shown are for female devices)

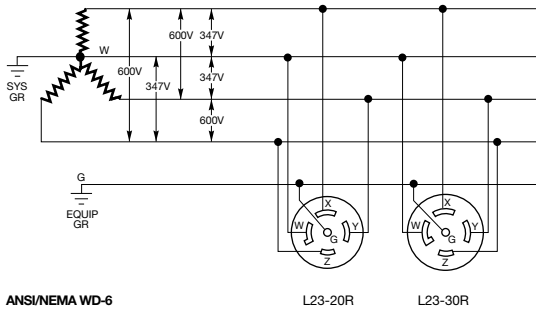
#### 3ØY 120/208V AC – 4P, 5W – Grounding



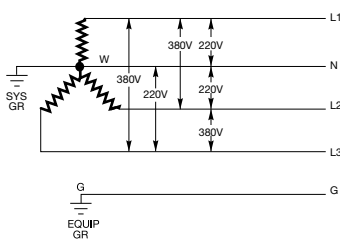
#### 3ØY 277/480V AC – 4P, 5W – Grounding



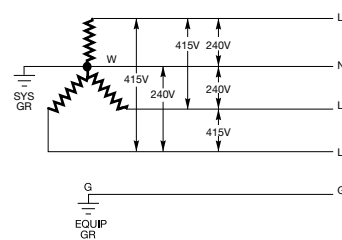
#### 3ØY 347/600V AC – 4P, 5W – Grounding



#### 3ØY 220/380V AC – 4P, 5W – Grounding



#### 3ØY 240/415V AC – 4P, 5W – Grounding



Note: The above diagrams are intended to show device terminal identification only.

# General Technical Data

## Horsepower Ratings and UL 508A Table SB4.1

### Horsepower Ratings for NEMA Configurations – Plugs and Receptacles Only

Straight Blade				Locking			
NEMA Configuration	AC HP Rating <sup>1</sup>	NEMA Configuration	AC HP Rating <sup>1</sup>	NEMA Configuration	AC HP Rating <sup>1</sup>	NEMA Configuration	AC HP Rating <sup>1</sup>
1-15	0.5	11-15	2	L1-15	0.5	L11-15	2
2-15	1.5*	11-20	3	L2-20	2*	L11-20	3
2-20	2*	11-30	3	L5-15	0.5	L11-30	3
2-30	2*	11-50	7.5	L5-20	1		
5-15	0.5	14-15	1.5 L-L*	L5-30	2	L12-20	5
5-20	1		0.5 L-N	L6-15	1.5*	L12-30	10
5-30	2	14-20	2 L-L*	L6-20	2*	L14-20	2 L-L*
5-50	2		1 L-N	L6-30	2*	L14-30	1 L-N
6-15	1.5*	14-30	2 L-L*	L7-15	2		2 L-L*
6-20	2*		2 L-N	L7-20	2		2 L-N
6-30	2*			L7-30	3	L15-20	3
6-50	3*					L15-30	3
7-15	2	14-50	3 L-L*	L8-20	3	L16-20	5
7-20	2		2 L-N	L8-30	5	L16-30	10
7-30	3	14-60	3 L-L*			L18-20	2
7-50	5		2 L-N			L18-30	3
		15-15	2				
		15-20	3	L10-20	2 L-L*	L19-20	5
10-20	2 L-L*	15-30	3		1 L-N	L19-30	10
	1 L-N	15-50	7.5			L21-20	2
		15-60	10	L10-30	2 L-L*	L21-30	3
10-30	2 L-L*				2 L-N	L22-20	5
	2 L-N	18-15	2			L22-30	10
		18-20	2				
10-50	3 L-L*	18-30	3				
	2 L-N	18-50	7.5				
		18-60	7.5				

Note: <sup>1</sup>The phase to phase horsepower ratings are noted "L-L". The phase to neutral ratings are identified "L-N".  
<sup>2</sup>Also suitable for 208V Line-to-Line, not 208V Line-to-Neutral.

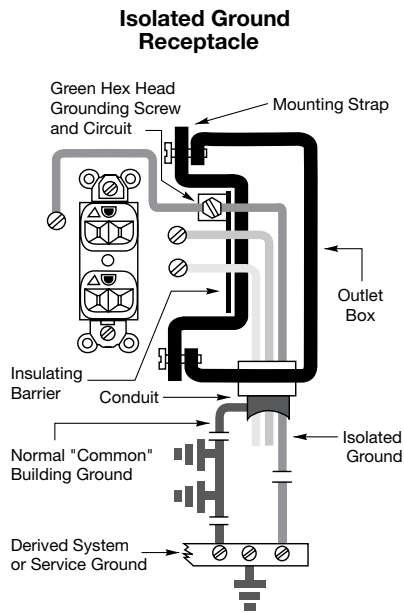
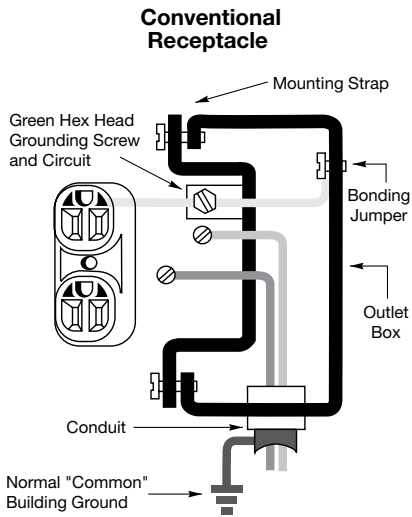
### UL 231 Tab13 2.1, UL 508A Table SB4.1, UL 891 Table 16 - Assumed Maximum Short Circuit Current Rating for Unmarked Components When Used in UL 231 Power Outlets, UL 508A Industrial Control Panels, and UL 891 Switchboards

Component	Short Circuit Current Rating, kA
Bus bars	10
Circuit breaker (including GFCI type)	5
Current meters	a
Current shunt	10
Fuseholder	10
Industrial control equipment:	
a. Auxiliary devices (overload relay)	5
b. Switches (other than mercury tube type)	5
c. Mercury tube switches	
- Rated over 60 amperes or over 250 volts	5
- Rated 250 volts or less, 60 amperes or less, and over 2 kVA	3.5
- Rated 250 volts or less and 2 kVA or less	1
Motor controller, rated in horsepower (kW)	
a. 0 – 50 (0 – 37.3)	5c
b. 51 – 200 (38 – 149)	10c
c. 201 – 400 (150 – 298)	18c
d. 401 – 600 (299 – 447)	30c
e. 601 – 900 (448 – 671)	42c
f. 901 – 1500 (672 – 1193)	85c
Meter socket base	10
Miniature or miscellaneous fuse	10b
Receptacle (GFCI type)	2
Receptacle (other than GFCI type)	10
Supplementary protector	0.2
Switch unit	5
Terminal block or power distribution block	10

Note: a A short circuit current rating is not required when connected via a current transformer or current shunt.  
 A directly connected current meter shall have a marked short circuit current rating.  
 b The use of a miniature fuse is limited to 125-volt circuits.  
 c Standard fault current rating for motor controller rated within specified horsepower range.

# General Technical Data

## Isolated Ground Story



### Hubbell Isolated Ground Receptacles

Why do you need an isolated ground device?

When mounting a conventional receptacle in a steel box, the ground is commonly established through the existing electrical system. This is done by using either the grounding clip on the receptacle's mounting strap, or by running a ground wire (which is part of the "normal" existing system) to the green grounding screw.

In a conventional receptacle the grounding contacts are connected to the mounting strap and the green grounding screw. Thus, even when a separate green wire is brought to the receptacle, it is still tied into the normal ground. This occurs since the mounting strap is in contact with the box grounding system, therefore, a "pure" isolated path to the ground is not established.

### The Problem

The conventional grounding receptacle provides safety for personnel and equipment. However, the ground network also serves as a giant antenna and conductor of electrical noise. This electrical noise is electromagnetic interference and is caused by numerous transient ground currents. This can produce random transient electrical signals on the grounding system.

As a result, sensitive electronic equipment such as point of purchase terminals, accounting machines, computers and highly sensitive medical and communications equipment, can pick up these transient signals. This can interfere with the proper operation of the equipment.

### The Solution

The isolated ground receptacle is similar to a conventional receptacle except for one important change. Insulating barrier construction, first patented by Hubbell, isolates the ground contacts from the mounting strap. The green grounding screw is connected directly to the grounding contacts. The isolated equipment grounding circuit is completed by running an isolated ground wire to the green grounding screw. This ground wire passes through intermediate panel boards without being connected to their grounding terminal and terminates directly at an equipment grounding conductor terminal of the derived system or service, in accordance with NEC® requirements.

### The Result

This "isolated ground" can be kept relatively free of electrical noise. This is achieved since the grounding network has less branches, fewer sources of noise, and is connected to the ground at a single point.

NEC® is a registered trademark of the National Fire Protection Association (NFPA).

# General Technical Data

## Decimal Equivalents Table

### Decimal Equivalents Table

Inches	Inches	Millimeters	Inches	Inches	Millimeters
1/64	.015625	.3969	33/64	.515625	13.0969
1/32	.03125	.7938	17/32	.53125	13.4938
3/64	.046875	1.1906	35/64	.546875	13.8906
1/16	.0625	1.5875	9/16	.5625	14.2875
5/64	.078125	1.9844	37/64	.578125	14.6844
3/32	.09375	2.3813	19/32	.59375	15.0813
7/64	.109375	2.7781	39/64	.609375	15.4781
1/8	.1250	3.1750	5/8	.6250	15.8750
9/64	.140625	3.5719	41/64	.640625	16.2719
5/32	.15625	3.9688	21/32	.65625	16.6688
11/64	.171875	4.3656	43/64	.671875	17.0656
3/16	.1875	4.7625	11/16	.6875	17.4625
13/64	.203125	5.1594	45/64	.703125	17.8594
7/32	.21875	5.5563	23/32	.71875	18.2563
15/64	.234375	5.9531	47/64	.734375	18.6531
1/4	.2500	6.3500	3/4	.7500	19.0500
17/64	.265625	6.7469	49/64	.765625	19.4469
9/32	.28125	7.1438	25/32	.78125	19.8438
19/64	.296875	7.5406	51/64	.796875	20.2406
5/16	.3125	7.9375	13/16	.8125	20.6375
21/64	.328125	8.3344	53/64	.828125	21.0344
11/32	.34375	8.7313	27/32	.84375	21.4313
23/64	.359375	9.1281	55/64	.859375	21.8281
3/8	.3750	9.5250	7/8	.8750	22.2250
25/64	.390625	9.9219	57/64	.890625	22.6219
13/32	.40625	10.3188	29/32	.90625	23.0188
27/64	.421875	10.7156	59/64	.921875	23.4156
7/16	.4375	11.1125	15/16	.9375	23.8125
29/64	.453125	11.5094	61/64	.953125	24.2094
15/32	.46875	11.9063	31/32	.96875	24.6063
31/64	.484375	12.3031	63/64	.984375	25.0031
1/2	.5000	12.7000	1	1.0000	25.4000



# General Technical Data

## Electrical Symbols and Abbreviations

### Electrical Symbols and Abbreviations

#### General Outlets

##### Ceiling Wall

○ - ○	Lighting Outlet
Ⓟ - Ⓟ	Blanked outlet
Ⓣ	Deep cord
ⓔ - ⓔ	Electrical outlet: for use only when circle used alone might be confused with columns, plumbing symbols, etc.
ⓕ - ⓕ	Fan outlet
ⓙ - ⓙ	Junction box
Ⓛ - Ⓛ	Lamp holder
Ⓛ <sub>s</sub> - Ⓛ <sub>s</sub>	Lamp holder with pull switch
Ⓢ - Ⓢ	Pull switch
Ⓥ - Ⓥ	Outlet for vapor discharge lamp
Ⓧ - Ⓧ	Exit light outlet
Ⓒ - Ⓒ	Clock outlet (specify voltage)

#### Convenience Outlets

⊖	Duplex convenience outlet
⊖ <sub>3</sub>	Convenience outlet other than duplex 1-single, 3-triplex, etc.
⊖ <sub>wp</sub>	Weatherproof convenience outlet
⊖ <sub>4</sub>	Range outlet
⊖ <sub>1</sub>	Switch and convenience outlet
⊖ <sub>R</sub>	Radio and convenience outlet
⊖ <sub>sp</sub>	Special purpose outlet (Des. in Spec.)
⊖ <sub>f</sub>	Floor outlet

#### Switch Outlets

S	Single pole switch
S <sub>2</sub>	Double pole switch
S <sub>3</sub>	Three way switch
S <sub>4</sub>	Four way switch
S <sub>D</sub>	Automatic door switch
S <sub>E</sub>	Electrolier switch
S <sub>K</sub>	Key operated switch
S <sub>P</sub>	Switch and pilot lamp
S <sub>CB</sub>	Circuit breaker switch
S <sub>WCB</sub>	Weatherproof circuit breaker
S <sub>MC</sub>	Momentary contact switch
S <sub>RC</sub>	Remote control switch
S <sub>WP</sub>	Weatherproof switch
S <sub>F</sub>	Fused switch
S <sub>WF</sub>	Weatherproof fused switch

#### Special Outlets

Any standard symbol as given above with the addition of a lower case subscript letter may be used to designate some special variation of standard equipment of particular interest in a specific set of architectural plans.

○ <sub>a,b,c,etc</sub>	When used they must be listed in the Key of Symbols on each drawing and if necessary further described in the specifications.
⊖ <sub>a,b,c,etc</sub>	

#### Panels, Circuits and Miscellaneous

■	Lighting panel
▨	Power panel
—	Branch circuit; concealed in ceiling or wall
- - -	Branch circuit; concealed in floor
.....	Branch circuit; exposed
→	Home run to panel board. Indicated number of circuits by number of arrows.

Note: Any circuit without further designation indicates a two-wire circuit.  
 Note: For double or single systems eliminate one or two lines. This symbol is equally adaptable to auxiliary system layouts.  
 For a greater number of wires indicate as follows:  $\#\#$  (3 wires)  
 $\#\#\#$  (4 wires), etc.

#### Feeders

Note: Use heavy lines and designate by number of corresponding to listing in feeder schedule.

⊖	Underfloor duct and junction box. Triple system
ⓐ	Generator
Ⓜ	Motor
Ⓢ	Instrument
Ⓣ	Power transformer (or draw to scale)
Ⓧ	Controller
Ⓢ	Isolating switch

#### Auxiliary Systems

■	Push Button	□	Buzzer
□	Bell	◇	Annunciator
◀	Outside telephone		
◀	Interconnecting telephone		
◀	Telephone switchboard		
Ⓢ	Bell ringing transformer		
Ⓣ	Electric door opener		
ⓕ <sub>P</sub>	Fire alarm bell	ⓕ	Fire alarm station
Ⓧ	City fire alarm station		
ⓕ <sub>A</sub>	Fire alarm central station		
ⓕ <sub>S</sub>	Automatic fire alarm device		
Ⓢ	Watchman's station		
Ⓢ	Watchman's central station		
Ⓢ	Horn		
Ⓢ	Nurse's signal plug	Ⓢ	Maid's signal plug
Ⓢ	Radio outlet		
Ⓢ	Signal central section		
□	Interconnection box		Battery
- - - - -	Auxiliary system circuits.		

Note: Any line without further designation indicates a 2-wire system. For a greater number of wires designate with numerals in manner similar to - - - 12-No. 18 W-3'4"C, or designate by number corresponding to listing in schedule.

#### Special auxiliary outlets

Subscript letters refer to notes on plans or detailed description in specifications.

# General Technical Data

## Diameter Ranges of Jacketed Cord and Wire Charts

### Diameter Ranges of Jacketed Cord Chart - In Accordance with Standard UL62

Acceptable range in inches (mm) of the average overall diameter of round, jacketed heater cords and non-retractile vacuum cleaner and service cords.

Type of Cord	AWG Size	2 Conductor	3 Conductor	4 Conductor	5 Conductor
<b>SV, SVE, SVEO, SVOO</b>	18	.22"- .26" (5.6-6.6)	.23"- .27" (5.8-6.9)	—	—
<b>SVO, SVT, SVTOO, SVTO</b>	16	.25"- .28" (6.2-7.1)	.26"- .30" (6.6-7.5)	—	—
<b>SJ, SJE, SJOO, SJO, SJEO, SJEOSJT, SJTO, SJTOO, SJEW, SJOOW, SJOW, SJEOW, SJEOW, SJTW, SJTOW, SJTOOW</b>	18	.28"- .32" (7.1-8.1)	.30"- .34" (7.6-8.6)	.33"- .37" (8.4-9.4)	—
	16	.31"- .34" (7.9-8.6)	.33"- .36" (8.4-9.1)	.35"- .40" (8.9-10.2)	—
	14	.34"- .38" (8.6-9.7)	.36"- .40" (9.1-10.2)	.39"- .44" (9.9-11.2)	—
	12	.41"- .46" (10.4-11.7)	.43"- .48" (10.9-12.2)	.47"- .52" (11.9-13.2)	—
	10	.54"- .61" (13.7-15.5)	.57"- .64" (14.5-16.3)	.63"- .70" (16.0-17.8)	—
<b>S, SE, SOO, SEO, SEOO, ST STOO, STO, SEW, SOOW, SOW, SEOW, SEOW, STW, STOOW, STOW</b>	18	.34"- .39" (8.6-9.9)	.36"- .40" (9.1-10.2)	.39"- .43" (9.9-10.9)	.46"- .51" (11.7-13.0)
	16	.37"- .41" (9.4-10.4)	.39"- .43" (9.9-10.9)	.41"- .46" (10.4-11.7)	.49"- .55" (12.4-14.0)
	14	.50"- .55" (12.7-14.0)	.52"- .58" (13.2-14.7)	.56"- .62" (14.2-15.7)	.63"- .71" (16.0-18.0)
	12	.57"- .63" (14.5-16.0)	.59"- .66" (15.0-16.8)	.64"- .71" (16.3-18.0)	.70"- .77" (17.8-19.6)
	10	.62"- .69" (15.7-17.5)	.65"- .72" (16.5-18.3)	.70"- .78" (17.8-19.8)	.76"- .84" (19.3-21.3)
	8	.78"- .88" (19.8-22.4)	.83"- .93" (21.1-23.6)	.93"- 1.05" (23.6-26.7)	1.00"- 1.15" (25.4-29.2)
	6	.92"- 1.05" (23.4-26.7)	.97"- 1.10" (24.6-27.9)	1.05"- 1.20" (26.7-30.5)	1.18"- 1.33" (30.0-33.8)
	4	1.06"- 1.21" (26.9-30.7)	1.13"- 1.28" (28.7-32.5)	1.25"- 1.45" (31.8-36.8)	—
	2	1.21"- 1.40" (30.7-35.6)	1.30"- 1.50" (33.0-38.1)	1.45"- 1.65" (36.8-41.9)	—

### Nominal Diameters of Round Portable Power Cable - In Accordance with Standard CSA-C22.2 No. 96

Type of Cord	AWG Size	2 Conductor	3 Conductor	4 Conductor	5 Conductor
<b>W, G, G-GC, G-BGC, PPC</b>	6	0.945" (24.0)	0.984" (25.0)	1.102" (28.0)	1.220" (31.0)
	4	1.063" (27.0)	1.142" (29.0)	1.260" (32.0)	1.417" (36.0)
	3	1.181" (30.0)	1.220" (31.0)	1.339" (34.0)	1.496" (38.0)
	2	1.260" (32.0)	1.339" (34.0)	1.496" (38.0)	1.614" (41.0)
	1	1.339" (34.0)	1.496" (38.0)	1.654" (42.0)	1.890" (48.0)
	1/0	1.417" (36.0)	1.614" (41.0)	1.772" (45.0)	1.929" (49.0)
	2/0	1.535" (39.0)	1.732" (44.0)	1.929" (49.0)	2.047" (52.0)
	3/0	1.654" (42.0)	1.890" (48.0)	2.047" (52.0)	2.244" (57.0)
	4/0	1.772" (45.0)	2.008" (51.0)	2.244" (57.0)	2.441" (62.0)

### Wire Types Approximate Diameter in Inches (mm)\*

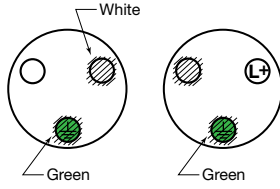
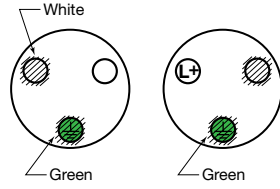
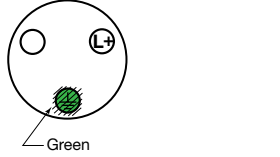
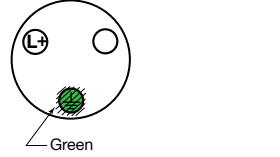
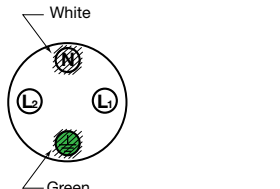
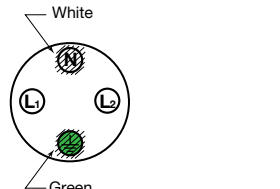
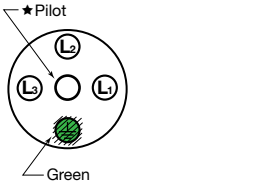
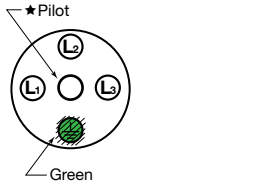
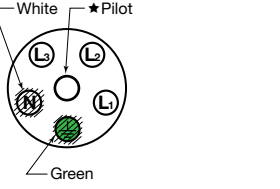
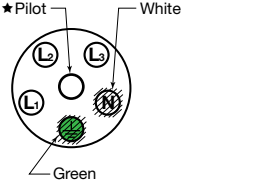
Size (AWG or kcmil)	THHN, THWN, THWN-2 Inches (mm)	TW, THHW, THW, THW-2 Inches (mm)	XHHW, ZW, XHHW-2, XHH Inches (mm)
12	0.130 (3.302)	0.152 (3.861)	0.152 (3.861)
10	0.164 (4.166)	0.176 (4.470)	0.176 (4.470)
8	0.216 (5.486)	0.236 (5.994)	0.236 (5.994)
6	0.254 (6.452)	0.304 (7.722)	0.274 (6.960)
4	0.324 (8.230)	0.352 (8.941)	0.322 (8.179)
3	0.352 (8.941)	0.380 (9.652)	0.350 (8.890)
2	0.384 (9.754)	0.412 (10.46)	0.382 (9.703)
1	0.446 (11.23)	0.492 (12.50)	0.442 (11.23)
1/0	0.486 (12.34)	0.532 (13.51)	0.482 (12.34)
2/0	0.532 (13.51)	0.578 (14.68)	0.528 (13.41)
3/0	0.584 (14.83)	0.630 (16.00)	0.580 (14.73)
4/0	0.642 (16.31)	0.688 (17.48)	0.638 (16.21)
250	0.711 (18.06)	0.765 (19.43)	0.705 (17.91)
300	0.766 (19.46)	0.820 (20.83)	0.760 (19.30)
350	0.817 (20.75)	0.871 (22.12)	0.811 (20.60)
400	0.864 (21.95)	0.918 (23.32)	0.858 (21.79)
500	0.949 (24.10)	1.003 (25.48)	0.943 (23.95)
600	1.051 (26.70)	1.113 (28.27)	1.053 (26.75)
700	1.122 (28.50)	1.184 (30.07)	1.124 (28.55)
750	1.156 (29.36)	1.218 (30.94)	1.158 (29.41)
800	1.188 (30.18)	1.250 (31.75)	1.190 (30.23)
900	1.252 (31.80)	1.314 (33.38)	1.254 (31.85)
1000	1.310 (33.27)	1.372 (34.85)	1.312 (33.32)

Note: \*Information Sourced from the National Electrical Code.

# General Technical Data

## IEC Pin and Sleeve Terminal Identification

### IEC Pin and Sleeve Terminal Identification – Rear View

Description	Rating		Terminal Marking Pattern*			
	Domestic	International	Receptacle and Connector		Plug and Inlet	
			Domestic	International	Domestic	International
3 Wire	125V AC 277V AC	100-130V				
3 Wire	250V AC 480V AC 600V AC	200-250V 380-415V AC				
4 Wire	125/250V AC 1ØY 120/208V	—				
4 Wire	(3Ø Δ) 250V AC 480V AC 600V AC	380-415V AC				
5 Wire	(3ØY) 120/208V AC 277/480V AC 347/600V AC	220/380V 50Hz 250/440V 60Hz 200/346V to 240/415V 50 and 60Hz				

Note: \*Location of grounding contact position will change as clock positions assigned to specific voltages change.  
 ★Pilot contacts supplied on 4 and 5 wire, 63 and 125 Amp international rated devices.

# General Technical Data

## Horsepower Ratings

### Horsepower Ratings for IEC Pin and Sleeve

Catalog Number				AC Voltage Rating	HP Rating
HBL420R9W	HBL420P9W	HBL420C9W	HBL420B9W	3Ø 250	2
HBL420R7W	HBL420P7W	HBL420C7W	HBL420B7W	3Ø 480	5
HBL420R5W	HBL420P5W	HBL420C5W	HBL420B5W	3Ø 600	7.5
HBL520R9W	HBL520P9W	HBL520C9W	HBL520B9W	3ØY 120/208	0.5
HBL520R7W	HBL520P7W	HBL520C7W	HBL520B7W	3ØY 277/480	5
HBL520R5W	HBL520P5W	HBL520C5W	HBL520B5W	3ØY 347/600	7.5
HBL430R9W	HBL430P9W	HBL430C9W	HBL430B9W	3Ø 250	3
HBL430R7W	HBL430P7W	HBL430C7W	HBL430B7W	3Ø 480	7.5
HBL430R5W	HBL430P5W	HBL430C5W	HBL430B5W	3Ø 600	10
HBL530R9W	HBL530P9W	HBL530C9W	HBL530B9W	3ØY 120/208	2
HBL530R7W	HBL530P7W	HBL530C7W	HBL530B7W	3ØY 277/480	7.5
HBL530R5W	HBL530P5W	HBL530C5W	HBL530B5W	3ØY 347/600	10
HBL460R9W	HBL460P9W	HBL460C9W	HBL460B9W	3Ø 250	5
HBL460R7W	HBL460P7W	HBL460C7W	HBL460B7W	3Ø 480	10
HBL460R5W	HBL460P5W	HBL460C5W	HBL460B5W	3Ø 600	15
HBL560R9W	HBL560P9W	HBL560C9W	HBL560B9W	3ØY 120/208	3
HBL560R7W	HBL560P7W	HBL560C7W	HBL560B7W	3ØY 277/480	10
HBL560R5W	HBL560P5W	HBL560C5W	HBL560B5W	3ØY 347/600	15
HBL4100R9W	HBL4100P9W	HBL4100C9W	HBL4100B9W	3Ø 250	10
HBL4100R7W	HBL4100P7W	HBL4100C7W	HBL4100B7W	3Ø 480	30
HBL4100R5W	HBL4100P5W	HBL4100C5W	HBL4100B5W	3Ø 600	30
HBL5100R9W	HBL5100P9W	HBL5100C9W	HBL5100B9W	3ØY 120/208	10
HBL5100R7W	HBL5100P7W	HBL5100C7W	HBL5100B7W	3ØY 277/480	30
HBL5100R5W	HBL5100P5W	HBL5100C5W	HBL5100B5W	3ØY 347/600	30

# General Technical Data

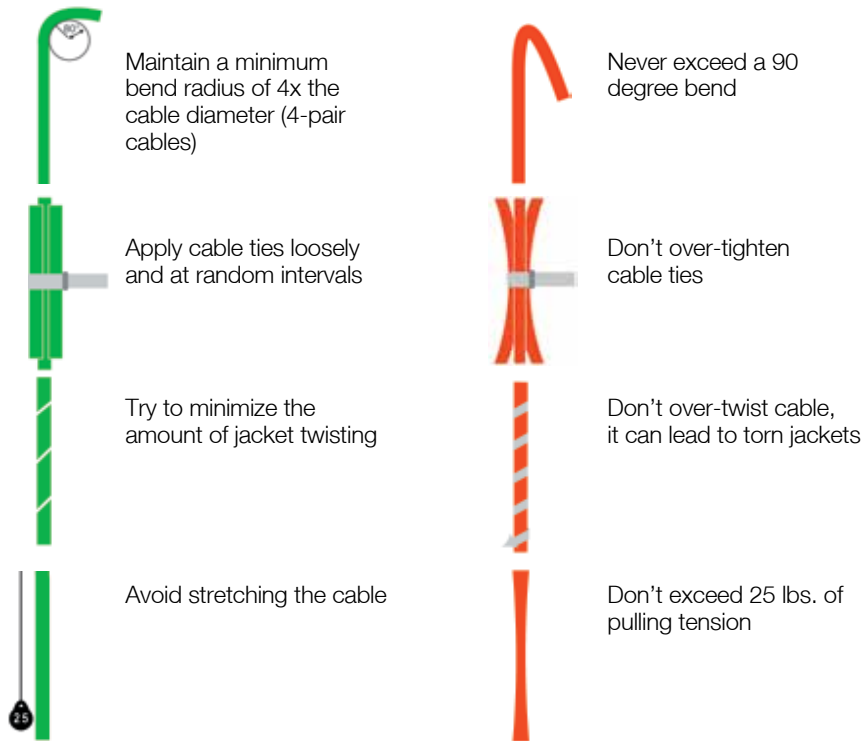
## Network Cabling Requirements

### Supported Media - International

Designation	ANSI/TIA-568-C	ISO/IEC 11801 Amend 2: 2010	CENELEC EN-50173-1: 2002
Category 3 (16 MHz)	Supported	Supported: Class C	Supported: Class C
Category 5e (100 MHz)	Supported	Supported: Class D	Supported: Class D
Category 6 (250 MHz)	Supported	Supported: Class E	Supported: Class E
Category 6A (500 MHz)	Supported	Supported: Class EA	Supported: Class EA
Category 7 (600 MHz)	Not Recognized	Supported: Class F	Supported: Class F
Category 7A (1,000 MHz)	Not Recognized	Supported: Class FA*	Supported: Class FA*
Category 8 (2,000 MHz)	Not Recognized	Supported: Class FA*	Supported: Class FA*
50/125 - 62.5/125 Multimode	Supported	Supported	Supported
Singlemode Fiber	Supported	Supported	Supported
Singlemode Fiber to the Work Area	Not Supported	Supported	Supported
Work Area Outlet Configuration	4 Pairs T568A or B	4 Pairs T568A Only	4 Pairs T568A Only
Stranded Patch Cord Attenuation	120% of Horiz. Cable	150% of Horiz. Cable	150% of Horiz. Cable

Note: \*Category 8 proposed in TIA 568-C.2-1 for 40 GBASE-T. ISO/IEC and cenelec to be determined. ISO/IEC and cenelec considering expanding Class FA frequency in addition to a considering new Class.

- Strip back only as much cable jacket as is required for termination and maintain pair twists as close as possible to the point of mechanical termination
- At a minimum, never allow untwisting of pairs as specified:  
Category 5e and 6/6A: 0.5 inch max.



Use appropriate methods for dressing and securing cables:

- Cable ties
- Cable support bar
- Wire management panels
- Releasable straps

Don't use a staple gun to position cable