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Circuit-Lock® Unfused Disconnect Switches



Advantage™ Series Switch-Rated Devices



Circuit-Lock® Unfused and Fused Mechanical Interlocks



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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



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

IEC Pin and Sleeve Accessories Back Box

Ordering Information

| Description | Device Color | UPC | Catalog Number |
|-----------------------|--------------|--------------|----------------|
| Non-Metallic Back Box | Grey | 703863306871 | 8820204 |

Listings

UL Through and External Listing Tests

Specifications

| | |
|----------------|-----------------------|
| Accessory Item | Non-Metallic Back Box |
| Back Box | 15 Degree Angle |
| Box Inlet Size | 1" NPT |

Performance

Environmental

| | |
|---------------------|------------------|
| Moisture Resistance | IP67 Suitability |
|---------------------|------------------|

Accessories

Receptacle/Plug Accommodation: 16A, 20A, 25A & 32A IEC Pin & Sleeve
 Receptacle/Plug Accommodation: Watertight Safety-Straw®

Resources

Customer Link (Training)
 #Catalog

Dimensions in Inches (mm)
 Hubbell Wiring Device-Kellems • Hubbell International (Europe) • 40 Waterline Drive • Shelton, CT 06484
 Phone (800) 285-8300 • Fax (800) 255-1031 • Application Support • hw@hubbell.com

eSpec Sheets Available Online

- Product Features
- Specifications
- Dimensions
- Performance
- Complementary Products



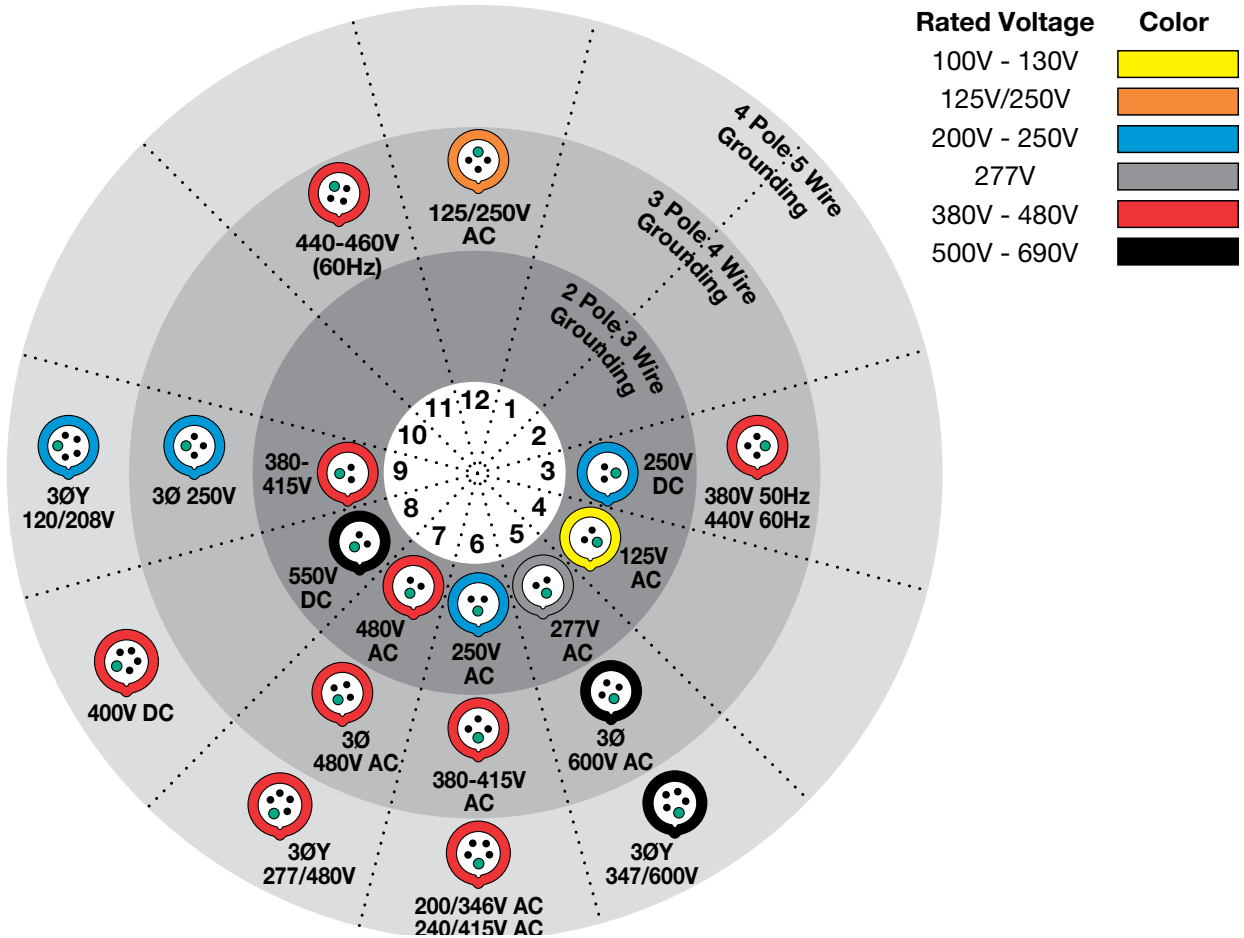
IEC Configurations Chart

Singly Rated Configurations

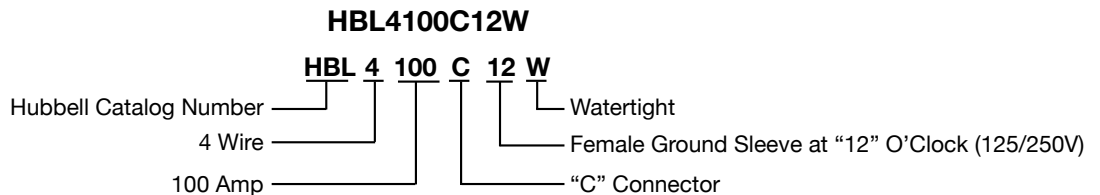
Hubbell Pin and Sleeve products are designed and manufactured to meet the International Standard IEC 60309-1 and IEC 60309-2. This device standard calls out a singly rated, non-interchangeable configuration for every voltage and type of service throughout the world. Pin and sleeve device housings are 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>1 (HBL) Designates Hubbell Catalog Number</p> | <p>2 First Digit 3-3 wire 4-4 wire 5-5 wire</p> | <p>3 Next Series Of Digits Preceding a letter 20-20 Amp 30-30 Amp 60-60 Amp 100-100 Amp</p> | <p>4 Letter P-Plug R-Receptacle C-Connector B-Inlet MI-Mechanical Interlock MIF-Mechanical Interlock Fused</p> | <p>5 Last Digit(s) 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>6 Letter: W Watertight</p> |
|---|---|---|---|---|---|

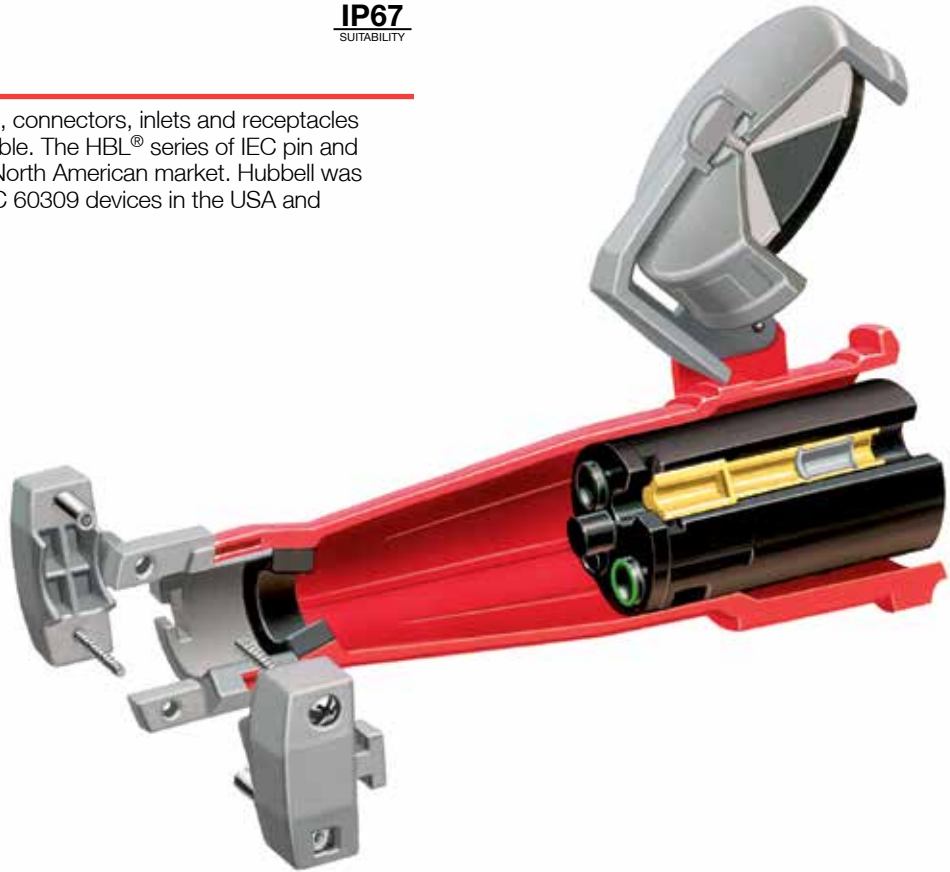


Features and Benefits

IP67
SUITABILITY

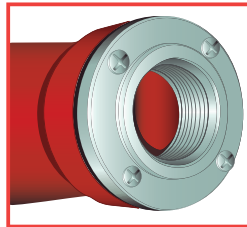
Watertight Devices

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



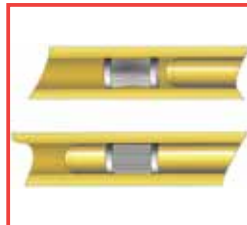
Sequential Contact Engagement

- 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

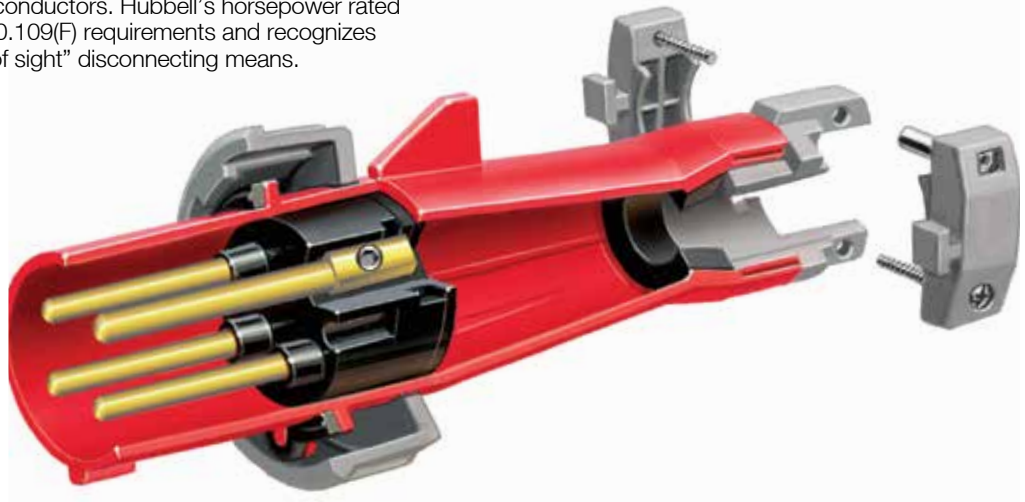
- (60/63 and 100/125 Amp) Recessed within the female sleeve, provides and maintains high unit pressure on mating pins to minimize temperature rise
- Broaches oxide film to achieve low resistance contact for cooler operation

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/ Conn. 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 | | 30 250V | HBL420R9W | HBL420P9W | HBL420C9W | HBL420B9W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 3P 4W | | 30 480V | HBL420R7W | HBL420P7W | HBL420C7W | HBL420B7W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 3P 4W | | 30 600V | HBL420R5W | HBL420P5W | HBL420C5W | HBL420B5W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 4P 5W | | 30Y 120/208V | HBL520R9W | HBL520P9W | HBL520C9W | HBL520B9W | BB2030N | BB201W BB301W | PC520 | IN520EF† | IN520EM |
| | 4P 5W | | 30Y 277/480V | HBL520R7W | HBL520P7W | HBL520C7W | HBL520B7W | BB2030N | BB201W BB301W | PC520 | IN520EF† | IN520EM |
| | 4P 5W | | 30Y 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 | | 30 250V | HBL430R9W | HBL430P9W | HBL430C9W | HBL430B9W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 3P 4W | | 30 480V | HBL430R7W | HBL430P7W | HBL430C7W | HBL430B7W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 3P 4W | | 30 600V | HBL430R5W | HBL430P5W | HBL430C5W | HBL430B5W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 4P 5W | | 30Y 120/208V | HBL530R9W | HBL530P9W | HBL530C9W | HBL530B9W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| | 4P 5W | | 30Y 277/480V | HBL530R7W | HBL530P7W | HBL530C7W | HBL530B7W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| | 4P 5W | | 30Y 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-12 and G-13 for back boxes and accessories, G-14 and G-15 for product dimensions, G-16 and G-17 for product specifications and HP ratings.

See page G-13 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 Recept./ Plug/ Conn. Inlet | AC Voltage | Watertight Devices | | | | Back Boxes | | Closure Caps | Replacement Interiors | | |
| | | | | Receptacle | Plug | Connector | Inlet | Non-Metallic | Metallic* | | Recept./ Conn. | Plug/ Inlet | |
| 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-12 and G-13 for back boxes and accessories, G-14 and G-15 for product dimensions, G-16 and G-17 for product specifications and HP ratings.

All 63A and all 125A devices have pilot pins or contacts.

See page G-13 for closure caps, purchased separately. PC60 and PC100 are not UL or CSA.

See page G-14 for additional information on short housing plug. IP22 suitability - length 8.30" (210.8).

*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

†Consult factory.



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 | HBLS330C4W | HBLS330R4W | 2 | HBLS330P4W | HBL330B4W | BB2030N | PC3430 |
| 32 | 2P 3W | | | 100-130V | HBLS332C4W | HBLS332R4W | 2 | HBLS332P4W | HBL332B4W | BB2030N | PC3430 |
| 30 | 2P 3W | | | 250V | HBLS330C6W* | HBLS330R6W* | 5 | HBLS330P6W* | HBL330B6W* | BB2030N | PC3430 |
| 32 | 2P 3W | | | 220-240V | | | | | | | |
| 30 | 2P 3W | | | 480V | HBLS330C7W | HBLS330R7W | 10 | HBLS330P7W | HBL330B7W | BB2030N | PC3430 |
| 30 | 3P 4W | | | 125/250V | HBLS430C12W | HBLS430R12W | 2 | HBLS430P12W | HBL430B12W | BB2030N | PC3430 |
| 30/32 | 3P 4W | | | 30 250V | HBLS430C9W* | HBLS430R9W* | 10 | HBLS430P9W* | HBL430B9W* | BB2030N | PC3430 |
| 30 | 3P 4W | | | 30 480V | HBLS430C7W | HBLS430R7W | 20 | HBLS430P7W | HBL430B7W | BB2030N | PC3430 |
| 30 | 3P 4W | | | 30 600V | HBLS430C5W | HBLS430R5W | 30 | HBLS430P5W | HBL430B5W | BB2030N | PC3430 |
| 30/32 | 3P 4W | | | 380-415V | HBLS430C6W* | HBLS430R6W* | 7.5 | HBLS430P6W* | HBL430B6W* | BB2030N | PC3430 |
| 32 | 3P 4W | | | 380-440V | HBLS432C3W | HBLS432R3W | 10 | HBLS432P3W | HBL432B3W | BB2030N | PC3430 |
| 30 | 4P 5W | | | 30Y 347/600V | HBLS530C5W | HBLS530R5W | 30 | HBLS530P5W | HBL530B5W | BB2030N | PC530 |
| 30 | 4P 5W | | | 200/346-240/415V | HBLS530C6W* | HBLS530R6W* | 7.5 | HBLS530P6W* | HBL530B6W* | BB2030N | PC530 |
| 32 | 4P 5W | | | 220/380V 240/415V | | | | | | | |
| 30 | 4P 5W | | | 30Y 277/480V | HBLS530C7W | HBLS530R7W | 20 | HBLS530P7W | HBL530B7W | BB2030N | PC530 |
| 30/32 | 4P 5W | | | 30Y 120/208V | HBLS530C9W* | HBLS530R9W* | 10 | HBLS530P9W* | HBL530B9W* | BB2030N | PC530 |

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 | |

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 | HBLS360C4W | HBLS360R4W | 3 | HBLS360P4W | HBLS360B4W | BB60N | PC60 |
| 60 | 2P 3W | | | 250V | HBLS360C6W* | HBLS360R6W* | 7.5 | HBLS360P6W* | HBLS360B6W* | BB60N | PC60 |
| 63 | 2P 3W | | | 220-240V | | | | | | | |
| 60 | 2P 3W | | | 480V | HBLS360C7W | HBLS360R7W | 15 | HBLS360P7W | HBLS360B7W | BB60N | PC60 |
| 60 | 3P 4W | | | 125/250V | HBLS460C12W | HBLS460R12W | 30 | HBLS460P12W | HBLS460B12W | BB60N | PC60 |
| 60/63 | 3P 4W | | | 30 250V | HBLS460C9W* | HBLS460R9W* | 10 | HBLS460P9W* | HBLS460B9W* | BB60N | PC60 |
| 60 | 3P 4W | | | 30 480V | | | | | | | |
| 60 | 3P 4W | | | 30 600V | HBLS460C5W | HBLS460R5W | 40 | HBLS460P5W | HBLS460B5W | BB60N | PC60 |
| 60/63 | 3P 4W | | | 380-415V | HBLS460C6W* | HBLS460R6W* | 10 | HBLS460P6W* | HBLS460B6W* | BB60N | PC60 |
| 60 | 3P 4W | | | 3ØY 347/600V | | | | | | | |
| 60/63 | 4P 5W | | | 200/346-240/415V | HBLS560C6W* | HBLS560R6W* | 10 | HBLS560P6W* | HBLS560B6W* | BB60N | PC60 |
| 60 | 4P 5W | | | 3ØY 277/480V | | | | | | | |
| 60/63 | 4P 5W | | | 3ØY 120/208V | HBLS560C9W* | HBLS560R9W* | 10 | HBLS560P9W* | HBLS560B9W* | BB60N | PC60 |

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:

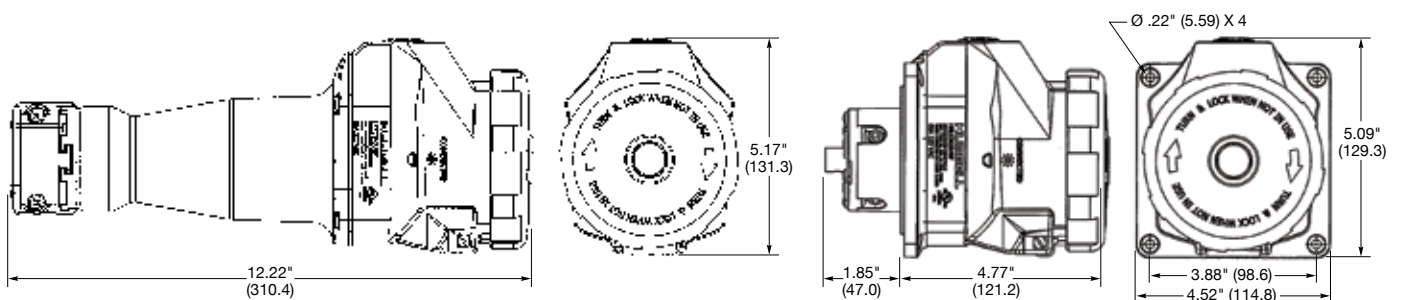
The Pilot Pin is smaller than the ground and phase pins and are designed to make after main and break before main breaks. This pin can be used to communicate with auxiliary devices within your facility. They are "Break before main break" and by design are the last contact in the sequence to make and first to break.



| Rating | | | Pin and Sleeve Devices | | | |
|--------|-------------|------------|-----------------------------|------------------------------|---------------------|----------------------|
| Amp | 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



Dimensions in Inches (mm)



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 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 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.



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 | | | |
| 60 | 2P 3W | | | 550V | | | |
| 100 | 2P 3W | | | 550V | | | |
| | 4P 5W | | | 400V | | | |

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 | | | | |
| | 4P 5W | | | 200/346V 240/415V | | | | |
| 60/63 | 3P 4W | | | 380-415V | | | | |
| | 4P 5W | | | 200/346V 240/415V | | | | |

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" | BB2030N |
| Back box for 60 and 63A devices. | 1¼" | BB60N |
| Back box for 100 and 125A devices. | 1½" | BB100N |

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" | BB201W |
| | 1" | BB301W |
| Back box for 60 and 63A devices. | 1¼" | BB601W |
| | 1½" | BB602W |
| Back box for 100 and 125A devices. | 1½" | BB1001W |
| | 2" | BB1002W |
| Angle adapter only for 60,63,100 and 125A devices. | | AA6010015 |

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" | AB203055 |
| Angle adapter only. | | AA203055 |
| Back box and adapter for 60, 63, 100 and 125A devices. | 1½" | FW6010055 |
| Angle adapter only. | | AA6010055 |

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" | FT202W |
| | 1" | FT302W |

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" | FW60100 |

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. | HBL2030AP |

Angle Wall Box Adapter

| Description | Catalog Number |
|---|-----------------|
| Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to standard wall boxes. | AA2030PS |

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.



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. | PC320 |
| Fits all 16 and 20A, 4 wire plugs and inlets. | PC420 |
| Fits all 16 and 20A, 5 wire plugs and inlets. | PC520 |
| Fits all 30 and 32A, 3 and 4 wire plugs and inlets. | PC3430 |
| Fits all 30 and 32A, 5 wire plugs and inlets. | PC530 |
| Fits all 60 and 63A plugs and inlets. | PC60 |
| Fits all 100 and 125A plugs and inlets. | PC100 |



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. | CA320 |
| Fits all 16 and 20A, 4 wire watertight female devices. | CA420 |
| Fits all 16 and 20A, 5 wire watertight female devices. | CA520 |
| Fits all 30 and 32A, 3 and 4 wire watertight female devices. | CA3430 |
| Fits all 30 and 32A, 5 wire watertight female devices. | CA530 |
| Fits all 60 and 63A watertight female devices. | CA60 |
| Fits all 100 and 125A watertight female devices. | CA100 |



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. | CC320 | LR320* |
| Fits all 16 and 20A, 4 wire plugs, connectors and inlets. | CC420 | LR420* |
| Fits all 16 and 20A, 5 wire plugs, connectors and inlets. | CC520† | LR520* |
| Fits all 30 and 32A, 3 and 4 wire plugs, connectors and inlets. | CC3430 | LR3430* |
| Fits all 30 and 32A, 5 wire plugs, connectors and inlets. | CC530† | LR530* |
| Fits all 60 and 63A plugs, connectors and inlets. | CC60 | LR60* |
| Fits all 100 and 125A plugs, connectors and inlets. | CC100 | LR100* |



CC3430



LR3430

Note: *Locking Ring only for plugs and inlets.
†Consult factory.

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.

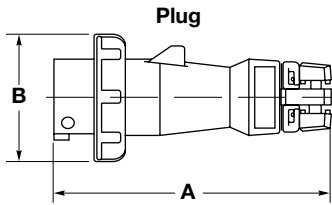
| Rating of Hubbell Pin and Sleeve Device | Liquidtight Conduit Size | Hubbell Liquidtight Adapter | Optional Kellems Liquidtight Conduit Grip |
|---|--------------------------|-----------------------------|---|
| 16 and 20 Amp 3 and 4 Wire | 1/2" NPT | SAA12 | 074093402 |
| | 3/4" NPT | SAA34 | 074093403 |
| 16 and 20 Amp 5 wire and 30 and 32 Amp 3 and 4 wire | 1/2" NPT | SAB12 | 074093402 |
| | 3/4" NPT | SAB34 | 074093403 |
| | 1" NPT | SAB100 | 074093404 |
| 30 and 32 Amp 5 wire and 60 and 63 Amp (all) | 1/2" NPT | SAC12 | 074093402 |
| | 3/4" NPT | SAC34 | 074093403 |
| | 1" NPT | SAC100 | 074093404 |
| | 1 1/4" NPT | SAC125 | 074093405 |
| 100 and 125 Amp (all) | 1 1/4" NPT | SAD125 | 074093405 |
| | 1 1/2" NPT | SAD150 | 074093406 |



SAB34

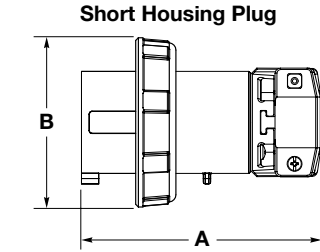


074093403



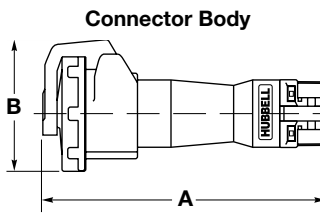
Plug Dimensions

| Type | A | B | Cord Grip Range |
|---|----------------|---------------|---------------------------|
| HBL320P | 6.61" (167.8) | 2.87" (73.0) | .330"-.830" (8.4-21.1) |
| HBL420P | 7.00" (177.8) | 3.19" (81.0) | .330"-.830" (8.4-21.1) |
| HBL520P | 7.65" (194.3) | 3.50" (89.0) | .330"-.830" (8.4-21.1) |
| HBL330P | 8.05" (204.5) | 3.74" (95.0) | .375"-1.250" (9.5-31.8) |
| HBL430P | 8.05" (204.5) | 3.74" (95.0) | .375"-1.250" (9.5-31.8) |
| HBL530P | 8.54" (216.9) | 4.02" (102.0) | .500"-1.450" (12.7-36.8) |
| HBL360P, HBL460P, HBL560P | 10.15" (257.8) | 4.49" (114.0) | .500"-1.450" (12.7-36.8) |
| HBL3100P, HBL4100P, M4100P, HBL5100P, M5100P | 12.63" (320.8) | 4.92" (125.0) | 1.065"-1.940" (27.1-49.3) |



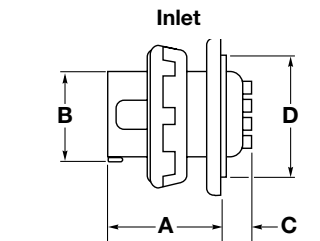
Short Housing Plug Dimensions

| Type | A | B | Cord Grip Range |
|---------------------|----------------|---------------|---------------------------|
| HBL5100P9WSH | 8.30" (210.82) | 4.92" (125.0) | 1.065"-1.940" (27.1-49.3) |



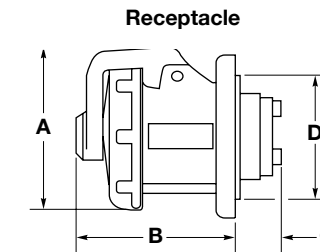
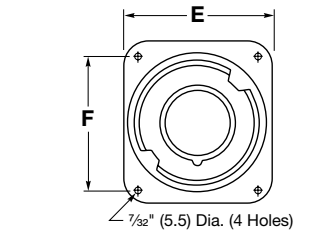
Connector Body Dimensions

| Type | A | B | Cord Grip Range |
|---|----------------|---------------|---------------------------|
| HBL320C | 7.49" (190.3) | 3.33" (84.6) | .330"-.830" (8.4-21.1) |
| HBL420C | 7.90" (200.6) | 3.66" (93.0) | .330"-.830" (8.4-21.1) |
| HBL520C | 8.54" (216.9) | 3.94" (100.0) | .330"-.830" (8.4-21.1) |
| HBL330C | 9.05" (229.9) | 4.27" (108.5) | .375"-1.250" (9.5-31.8) |
| HBL430C | 9.05" (229.9) | 4.27" (108.5) | .375"-1.250" (9.5-31.8) |
| HBL530C | 9.68" (245.8) | 4.70" (119.5) | .500"-1.450" (12.7-36.8) |
| HBL360C, HBL460C, HBL560C | 11.15" (283.2) | 5.10" (129.5) | .500"-1.450" (12.7-36.8) |
| HBL3100C, HBL4100C, M4100C, HBL5100C, M5100C | 13.57" (344.7) | 5.71" (145) | 1.065"-1.940" (27.1-49.3) |



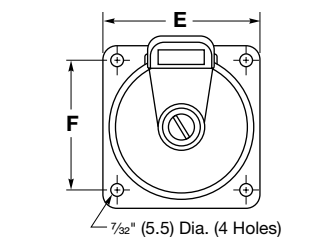
Inlet Dimensions

| Type | A | B | C | D | E | F |
|---|---------------|--------------|--------------|---------------|---------------|---------------|
| HBL320B | 2.54" (64.5) | 1.85" (47.0) | 1.14" (29.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL420B | 2.54" (64.5) | 2.11" (53.6) | 1.14" (29.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL520B | 2.54" (64.5) | 2.41" (61.2) | 1.14" (29.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL330B | 2.99" (76.0) | 2.49" (63.2) | 1.04" (26.5) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL430B | 2.99" (76.0) | 2.49" (63.2) | 1.04" (26.5) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL530B | 2.99" (76.0) | 2.75" (69.9) | 1.04" (26.5) | 2.80" (71.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL360B, HBL460B, HBL560B | 4.04" (102.6) | 2.97" (75.5) | 1.18" (30.0) | 3.46" (88.0) | 4.50" (114.3) | 3.88" (98.5) |
| HBL3100B, HBL4100B, M4100B, HBL5100B, M5100B | 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 |
|---|---------------|---------------|--------------|---------------|---------------|---------------|
| HBL320R | 3.33" (84.5) | 2.78" (70.6) | 1.02" (26.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL420R | 3.66" (93.0) | 2.78" (70.6) | 1.02" (26.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL520R | 3.94" (100.0) | 2.78" (70.6) | 1.02" (26.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL330R | 4.27" (108.5) | 3.09" (78.5) | 1.16" (29.5) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL430R | 4.27" (108.5) | 3.09" (78.5) | 1.16" (29.5) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL530R | 4.70" (119.4) | 3.09" (78.5) | 1.16" (29.5) | 2.83" (71.9) | 3.75" (95.3) | 3.13" (79.5) |
| HBL360R, HBL460R, HBL560R | 5.10" (129.5) | 4.07" (103.4) | 1.69" (43.0) | 3.46" (88.0) | 4.50" (114.3) | 3.88" (98.6) |
| HBL3100R, HBL4100R, M4100R, HBL5100R, M5100R | 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.

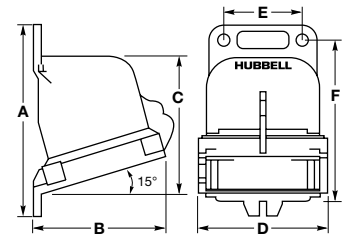
Dimensions in Inches (mm)



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" | BB2030N |
| 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" | BB60N |
| 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" | BB100N |

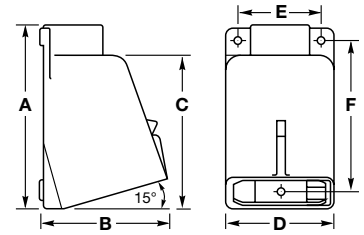
Note: *Hub is not included; order one of the following **Raco**® part numbers: 1 inch = 1704, 1¼ inch = 1705, 1½ inch = 1706. These boxes meet IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.



Non-Metallic Angle Box

Metallic 15° Angle Back Box

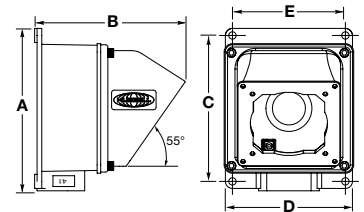
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
|--|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------|----------------|
| 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" | BB201W |
| 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" | BB301W |
| 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" | BB601W |
| 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" | BB602W |
| 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" | BB1001W |
| 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" | BB1002W |



Metallic 15° Angle Box

Metallic 55° Angle Back Box and Adapter

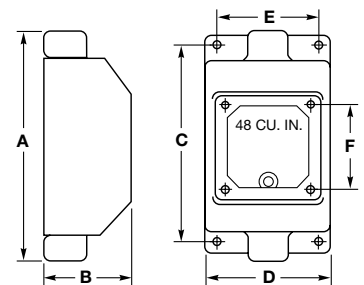
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
|---|--------------|---------------|---------------|---------------|---------------|---------------|-------------|---------------------|------------------|
| 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" | AB203055 |
| 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" | AA203055 |
| 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" | FW6010055 |
| 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" | AA6010055 |



Metallic 55° Angle Box

Metallic Feed-Thru Back Box

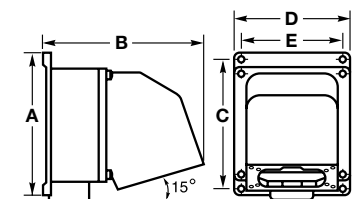
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
|---|--------------|---------------|--------------|---------------|---------------|--------------|--------------|---------------------|----------------|
| 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" | FT202W |
| 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" | FT302W |



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" | FW60100 |



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)



Watertight Materials

| Part | Material |
|---------------------|--|
| Inlet | |
| 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 |

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.

| | |
|-----------------------|---|
| Connector Body | |
| 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) |

| | |
|--------------------|--|
| Plug | |
| 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) |

| | |
|-----------------------|---|
| Receptacle | |
| 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 |

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 |

Note: *All devices on page G-11 have Valox® housings.

© Zytel is registered trademark of E.I. DuPont.

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



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

| AC Voltage Rating | Horsepower | Catalog Number | | | |
|-------------------|------------|-------------------|-------------------|-------------------|-------------------|
| 3Ø 250 | 2 | HBL420R9W | HBL420P9W | HBL420C9W | HBL420B9W |
| 3Ø 480 | 5 | HBL420R7W | HBL420P7W | HBL420C7W | HBL420B7W |
| 3Ø 600 | 7.5 | HBL420R5W | HBL420P5W | HBL420C5W | HBL420B5W |
| 3ØY 120/208 | .5 | HBL520R9W | HBL520P9W | HBL520C9W | HBL520B9W |
| 3ØY 277/480 | 5 | HBL520R7W | HBL520P7W | HBL520C7W | HBL520B7W |
| 3ØY 347/600 | 7.5 | HBL520R5W | HBL520P5W | HBL520C5W | HBL520B5W |
| 3Ø 250 | 3 | HBL430R9W | HBL430P9W | HBL430C9W | HBL430B9W |
| 3Ø 480 | 7.5 | HBL430R7W | HBL430P7W | HBL430C7W | HBL430B7W |
| 3Ø 600 | 10 | HBL430R5W | HBL430P5W | HBL430C5W | HBL430B5W |
| 3ØY 120/208 | 2 | HBL530R9W | HBL530P9W | HBL530C9W | HBL530B9W |
| 3ØY 277/480 | 7.5 | HBL530R7W | HBL530P7W | HBL530C7W | HBL530B7W |
| 3ØY 347/600 | 10 | HBL530R5W | HBL530P5W | HBL530C5W | HBL530B5W |
| 3Ø 250 | 5 | HBL460R9W | HBL460P9W | HBL460C9W | HBL460B9W |
| 3Ø 480 | 10 | HBL460R7W | HBL460P7W | HBL460C7W | HBL460B7W |
| 3Ø 600 | 15 | HBL460R5W | HBL460P5W | HBL460C5W | HBL460B5W |
| 3ØY 120/208 | 3 | HBL560R9W | HBL560P9W | HBL560C9W | HBL560B9W |
| 3ØY 277/480 | 10 | HBL560R7W | HBL560P7W | HBL560C7W | HBL560B7W |
| 3ØY 347/600 | 15 | HBL560R5W | HBL560P5W | HBL560C5W | HBL560B5W |
| 3Ø 250 | 10 | HBL4100R9W | HBL4100P9W | HBL4100C9W | HBL4100B9W |
| 3Ø 480 | 30 | HBL4100R7W | HBL4100P7W | HBL4100C7W | HBL4100B7W |
| 3Ø 600 | 30 | HBL4100R5W | HBL4100P5W | HBL4100C5W | HBL4100B5W |
| 3ØY 120/208 | 10 | HBL5100R9W | HBL5100P9W | HBL5100C9W | HBL5100B9W |
| 3ØY 277/480 | 30 | HBL5100R7W | HBL5100P7W | HBL5100C7W | HBL5100B7W |
| 3ØY 347/600 | 30 | HBL5100R5W | HBL5100P5W | HBL5100C5W | HBL5100B5W |



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).

Pin and Sleeve Devices/Mechanical Interlocks



IP67
SUITABILITY

Enclosure Type 4X, 12

| Rating | | | | | Unfused Circuit-Lock® Devices | | Reverse Service | |
|--------|-----------------|---------------|------|---------------------|-------------------------------|-------------|----------------------|--------------|
| Amps | Poles and Wires | Configuration | | AC Voltage | Mechanical Interlock | | Mechanical Interlock | |
| | | Recep. | Plug | | Mating Plug | Mating Plug | | |
| 20 | 3P 4W | | | 120/240V | | HBL420P12W | — | — |
| | 3P 4W | | | 3Ø 240V | | HBL420P9W | — | — |
| | 3P 4W | | | 3Ø 480V | | HBL420P7W | — | — |
| | 3P 4W | | | 3Ø 600V | | HBL420P5W | — | — |
| 30 | 2P 3W | | | 120V | | HBL330P4W | — | — |
| | 2P 3W | | | 240V | | HBL330P6W | — | — |
| | 2P 3W | | | 480V | | HBL330P7W | — | — |
| | 3P 4W | | | 120/240V | | HBL430P12W | — | — |
| | 3P 4W | | | 3Ø 240V | | HBL430P9W | HBL430MI9WR | HBL430P9WR |
| | 3P 4W | | | 3Ø 480V | | HBL430P7W | HBL430MI7WR | HBL430P7WR |
| | 3P 4W | | | 3Ø 600V | | HBL430P5W | HBL430MI5WR | HBL430P5WR |
| | 4P 5W | | | 3ØY 120/208V | | HBL530P9W | — | — |
| | 4P 5W | | | 3ØY 277/480V | | HBL530P7W | — | — |
| | 4P 5W | | | 3ØY 347/600V | | HBL530P5W | — | — |
| 32 | 3P 4W | | | 380V 50HZ-440V 60Hz | | HBL432P3W | — | — |
| 60 | 2P 3W | | | 120V | | HBL360P4W | — | — |
| | 2P 3W | | | 240V | | HBL360P6W | — | — |
| | 2P 3W | | | 480V | | HBL360P7W | — | — |
| | 3P 4W | | | 120/240V | | HBL460P12W | HBL460MI12WR | HBL460P12WR |
| | 3P 4W | | | 3Ø 240V | | HBL460P9W | HBL460MI9WR | HBL460P9WR |
| | 3P 4W | | | 3Ø 480V | | HBL460P7W | HBL460MI7WR | HBL460P7WR |
| | 3P 4W | | | 3Ø 600V | | HBL460P5W | HBL460MI5WR | HBL460P5WR |
| | 4P 5W | | | 3ØY 120/208V | | HBL560P9W | — | — |
| | 4P 5W | | | 3ØY 277/480V | | HBL560P7W | — | — |
| | 4P 5W | | | 3ØY 347/600V | | HBL560P5W | — | — |
| 100 | 2P 3W | | | 240V | | HBL3100P6W | — | — |
| | 3P 4W | | | 120/240V | | HBL4100P12W | HBL4100MI12WR | HBL4100P12WR |
| | 3P 4W | | | 3Ø 240V | | HBL4100P9W | HBL4100MI9WR | HBL4100P9WR |
| | 3P 4W | | | 3Ø 480V | | HBL4100P7W | HBL4100MI7WR | HBL4100P7WR |
| | 3P 4W | | | 3Ø 600V | | HBL4100P5W | HBL4100MI5WR | HBL4100P5WR |
| | 4P 5W | | | 3ØY 120/208V | | HBL5100P9W | — | — |

Note: 20, 30 and 32A – 1 inch NPT hub supplied; 60 and 100A – 1¼ inch hub supplied.



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. | HBLAC1 |
| "Break Before Main Break", 1 set of n/o contacts. | HBLAC2 |

Ground Block

| Description | Catalog Number |
|------------------------------|--------------------|
| For 20, 30 and 32A switches. | HBL30RGB |
| For 60 and 100A switches. | HBL60100RGB |

Neutral Block

| Description | Catalog Number |
|------------------------------|------------------|
| For 20, 30 and 32A switches. | HBL30RNB |
| For 60A switches. | HBL60RNB |
| For 100A switches. | HBL100RNB |

Watertight Closure Plug Kits

| Description | Catalog Number |
|---|----------------|
| For 20, 30 and 32A 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 |

Replacement Flip Covers

| Description | Catalog Number |
|---|-----------------|
| For 20A mechanical interlocks. | CA420MI |
| For 30 and 32A, 3 and 4 wire mechanical interlocks. | CA3430MI |
| For 30A, 5 wire mechanical interlocks. | CA530MI |
| For 60A mechanical interlocks. | CA60MI |
| For 100A mechanical interlocks. | CA100MI |

Replacement Switches

| Description | Catalog Number |
|--|---------------------|
| For 20A mechanical interlocks. | HBLDS3RS |
| For 30 and 32A mechanical interlocks. | HBL30MIRS |
| For 60 and 100A mechanical interlocks. | HBLDS60100RS |

Replacement Mounting Feet

| Description | Catalog Number |
|--|-----------------|
| For 20, 30, 32, 60 and 100A mechanical interlocks. | HBLRFT2* |

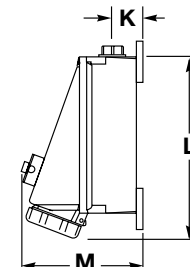
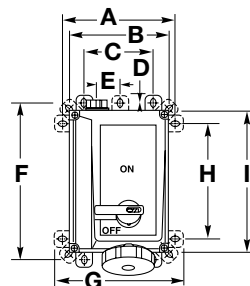
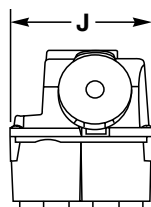
Dimensions

| 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).





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 | HBL420MI12W | HBL420P12W |
| 20 | 3Ø 240V AC | 5 | HBL420MI9W | HBL420P9W |
| 20 | 3Ø 480V AC | 10 | HBL420MI7W | HBL420P7W |
| 20 | 3Ø 600V AC | 10 | HBL420MI5W | HBL420P5W |
| 30 | 120V AC | 2 | HBL330MI4W | HBL330P4W |
| 30 | 240V AC | 3 (208-240V AC) | HBL330MI6W | HBL330P6W |
| 30 | 480V AC | 7.5 | HBL330MI7W | HBL330P7W |
| 30 | 120/240V AC | 3 (208-240V AC) | HBL430MI12W | HBL430P12W |
| 30 | 3Ø 600V AC | 20 | HBL430MI5W | HBL430P5W |
| 30 | 3Ø 480V AC | 15 | HBL430MI7W | HBL430P7W |
| 30 | 3Ø 250V AC | 7.5 | HBL430MI9W | HBL430P9W |
| 30 | 3ØY 347/600V AC | 20 | HBL530MI5W | HBL530P5W |
| 30 | 3ØY 277/480V AC | 15 | HBL530MI7W | HBL530P7W |
| 30 | 3ØY 120/208V AC | 5 | HBL530MI9W | HBL530P9W |
| 32 | 380V AC 50Hz – 440V AC 60Hz | 15 (440V AC 3Ø 60Hz) | HBL432MI3W | HBL432P3W |
| 60 | 120V AC | 3 | HBL360MI4W | HBL360P4W |
| 60 | 240V AC | 7.5 (208-240V AC) | HBL360MI6W | HBL360P6W |
| 60 | 480V AC | 20 | HBL360MI7W | HBL360P7W |
| 60 | 120/240V AC | 7.5 (208-240V AC) | HBL460MI12W | HBL460P12W |
| 60 | 3Ø 600V AC | 40 | HBL460MI5W | HBL460P5W |
| 60 | 3Ø 480V AC | 30 | HBL460MI7W | HBL460P7W |
| 60 | 3Ø 250V AC | 15 | HBL460MI9W | HBL460P9W |
| 60 | 3ØY 347/600V AC | 40 | HBL560MI5W | HBL560P5W |
| 60 | 3ØY 277/480V AC | 30 | HBL560MI7W | HBL560P7W |
| 60 | 3ØY 120/208V AC | 15 | HBL560MI9W | HBL560P9W |
| 100 | 240V AC | 15 (10 @ 208V AC) | HBL3100MI6W | HBL3100P6W |
| 100 | 120/240V AC | 15 | HBL4100MI12W | HBL4100P12W |
| 100 | 3Ø 600V AC | 50 | HBL4100MI5W | HBL4100P5W |
| 100 | 3Ø 480V AC | 50 | HBL4100MI7W | HBL4100P7W |
| 100 | 3Ø 250V AC | 25 (208-240V AC) | HBL4100MI9W | HBL4100P9W |
| 100 | 3ØY 120/208V AC | 20 | HBL5100MI9W | HBL5100P9W |

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



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 ^A |

Note: ^APackage of 10 feet and 10 screws.



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. |

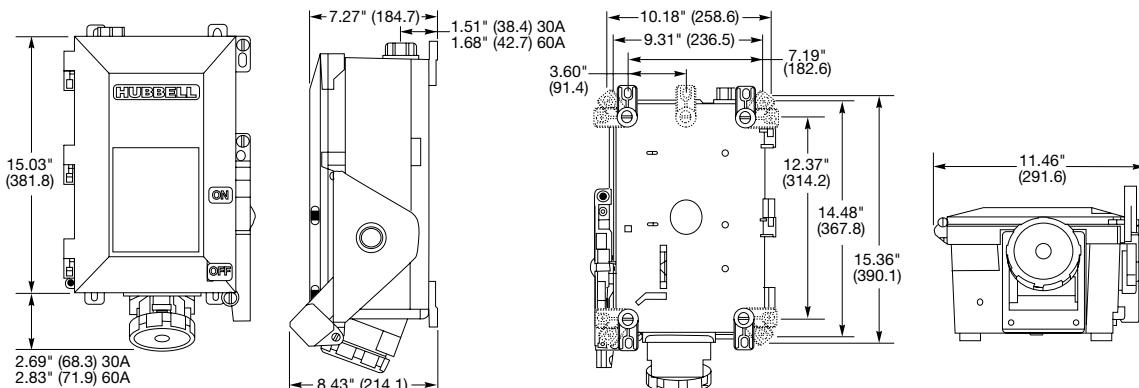
Horsepower Ratings

| Amps | AC Voltage Rating | Standard | Maximum** | Mechanical Interlock | Use Pin and Sleeve Plug |
|------|-------------------|----------|-----------|----------------------|-------------------------|
| 30 | 3Ø 600V AC | 7.5 | 20 | HBL430MIF5W | HBL430P5W |
| 30 | 3Ø 480V AC | 5 | 15 | HBL430MIF7W | HBL430P7W |
| 30 | 3Ø 240V | 3 | 7.5 | HBL430MIF9W | HBL430P9W |
| 30 | 120/240V AC | 1.5* | 3* | HBL430MIF12W | HBL430P12W |
| 30 | 3ØY 277/480V | 5 | 15 | HBL530MIF7W | HBL530P7W |
| 30 | 3ØY 347/600V | 7.5 | 20 | HBL530MIF5W | HBL530P5W |
| 60 | 3Ø 600V AC | 15 | 50 | HBL460MIF5W | HBL460P5W |
| 60 | 3Ø 480V AC | 15 | 30 | HBL460MIF7W | HBL460P7W |
| 60 | 3Ø 240V AC | 7.5 | 15 | HBL460MIF9W | HBL460P9W |
| 60 | 120/240V AC | 3* | 10* | HBL460MIF12W | HBL460P12W |
| 60 | 3ØY 120/208V | 7.5 | 15 | HBL560MIF9W | HBL560P9W |

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. | Max. Inches (mm) | |
| 20 | 3P 4W | | 3Ø 250V | | | | .350" - .710" (8.3 - 15.9) | |
| 30 | 3P 4W | | 125/250V | | | | .390" - .775" (9.9 - 19.7) | |
| 30 | 3P 4W | | 3Ø 250V | | | | .390" - .775" (9.9 - 19.7) | |
| 60 | 3P 4W | | 3Ø 250V | | | | .75" - 1.25" (19.1 - 31.8) | |
| 60 | 4P 5W | | 3ØY 120/208V | | | | .89" - 1.42" (22.6 - 36.1) | |
| 100 | 4P 5W | | 3ØY 120/208V | | | | 1.34" - 1.50" (34.0 - 38.1) | |

Specifications

Electrical

Dielectric Withstand Voltage 3000V AC.
 Max. Working Voltage 250V RMS.
 Current Interrupting Certified for current interruption 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%.

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 UL 94 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) |

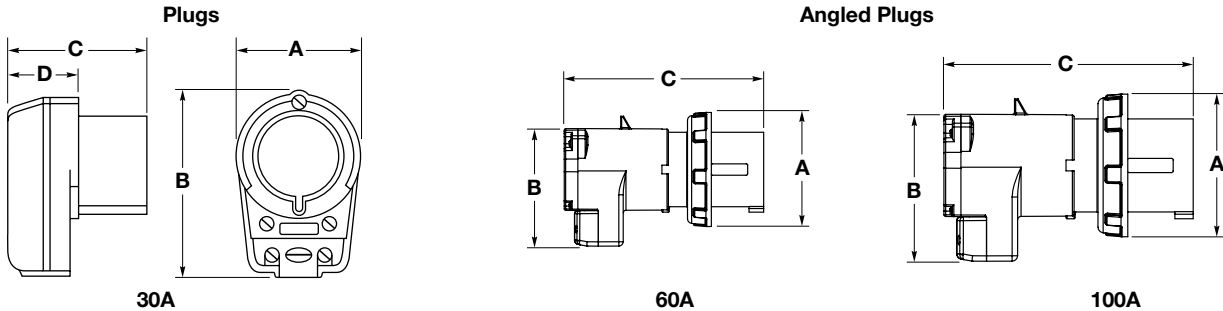
| Receptacle | Material |
|-------------------------|------------------------------|
| Body | Zytel® 101 Nylon |
| Sleeve Carrier 20 & 30A | Zytel® 101 Nylon |
| Sleeve Carrier 60A | High-Impact Thermoset |
| Sleeves | Brass CDA #360 |
| Assembly Screws | Stainless Steel (300 series) |
| Terminal Screws | 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-27 for product dimensions.



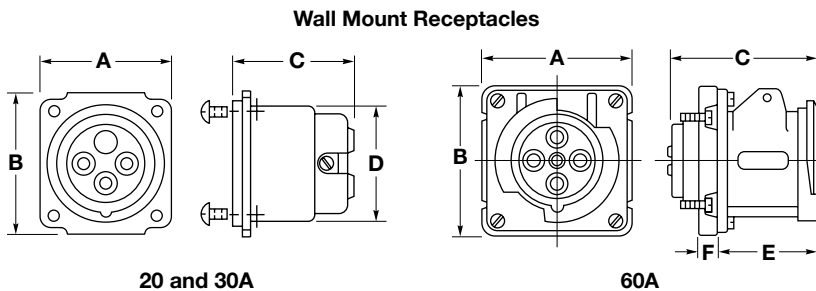
Plug Dimensions

| Type | A | B | C | D | Cord Range Diameter |
|----------------|-------------------|-------------------|-------------------|-----------------|-----------------------------|
| L430P12 | 2.97" (75.4) | 4.18" (106.2) | 3.50" (88.9) | 1.71" (43.4) | .390"-.775" (9.9-19.7) |
| A460P9 | 3.38" (85.9) | 4.25" (108.0) | 7.00" (177.8) | – | .75"-1.25" (19.1- 31.8) |
| A5100P9 | 4.92" (125.00) | 5.07" (128.81) | 8.60" (218.35) | – | 1.34"-1.50" (34.0- 38.1) |

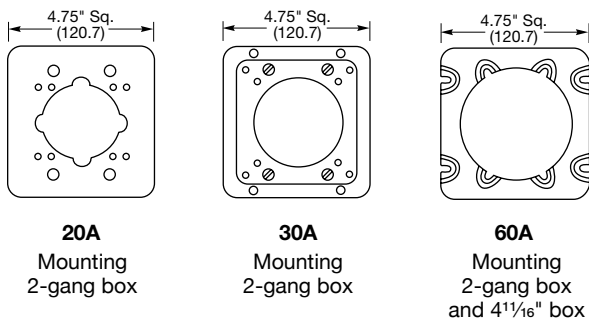


Wall Mount Receptacle Dimensions

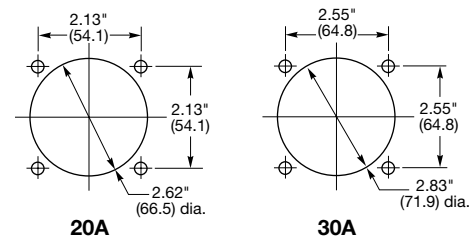
| Type | A | B | C | D | E | F |
|----------------|------------------|------------------|------------------|-----------------|-----------------|----------------|
| L420R9 | 2.60" (66.0) | 2.81" (71.4) | 2.28" (57.9) | 2.38" (60.5) | – | – |
| L430R12 | 3.12" (79.2) | 3.12" (79.2) | 2.77" (70.4) | 2.76" (70.1) | – | – |
| A460R9 | 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)



IEC Pin and Sleeve Terminal Identification – Rear View

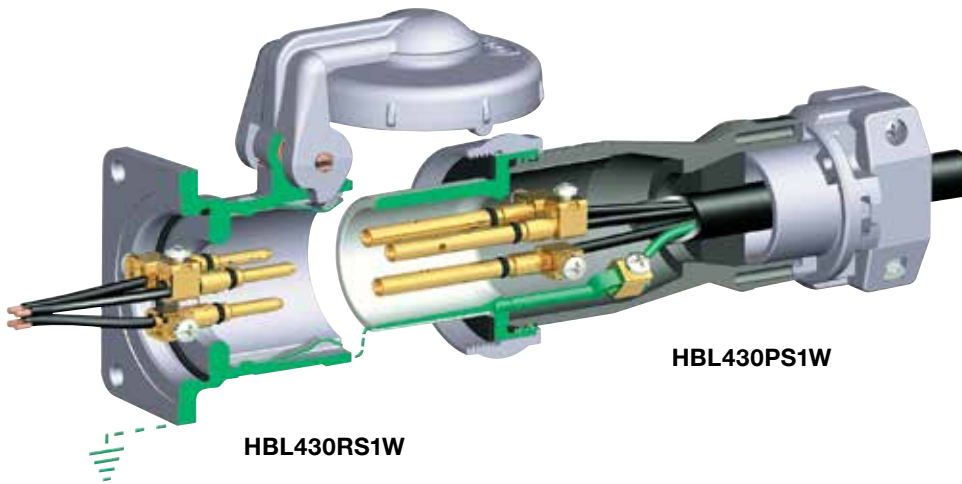
| Description | Rating | | Terminal Marking Pattern* | | | |
|-------------|--|--|---------------------------|---------------|----------------|---------------|
| | Domestic | International | Receptacle and Connector | | Plug and Inlet | |
| | | | Domestic | International | Domestic | International |
| 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.



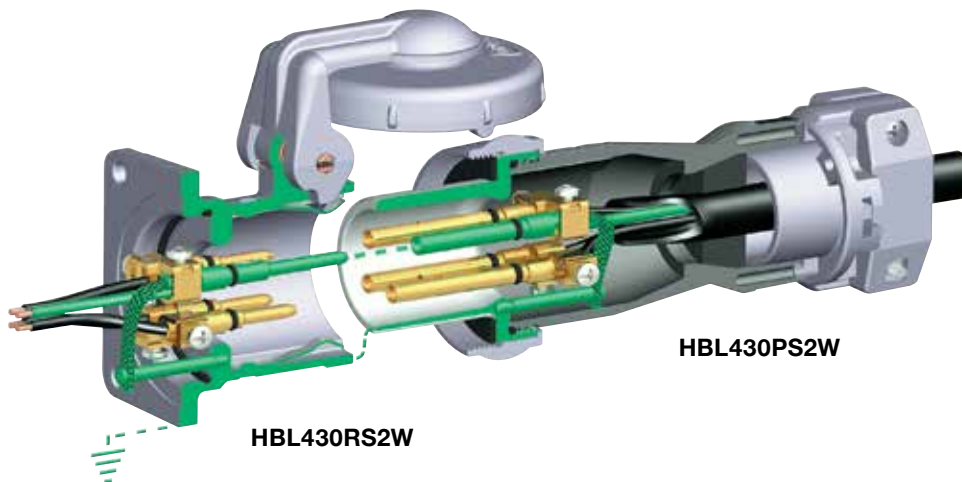
Ground Path

To reduce the likelihood of electrical shock, the National Electrical Code requires that non-current carrying metallic components be grounded. Insulgrip 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.

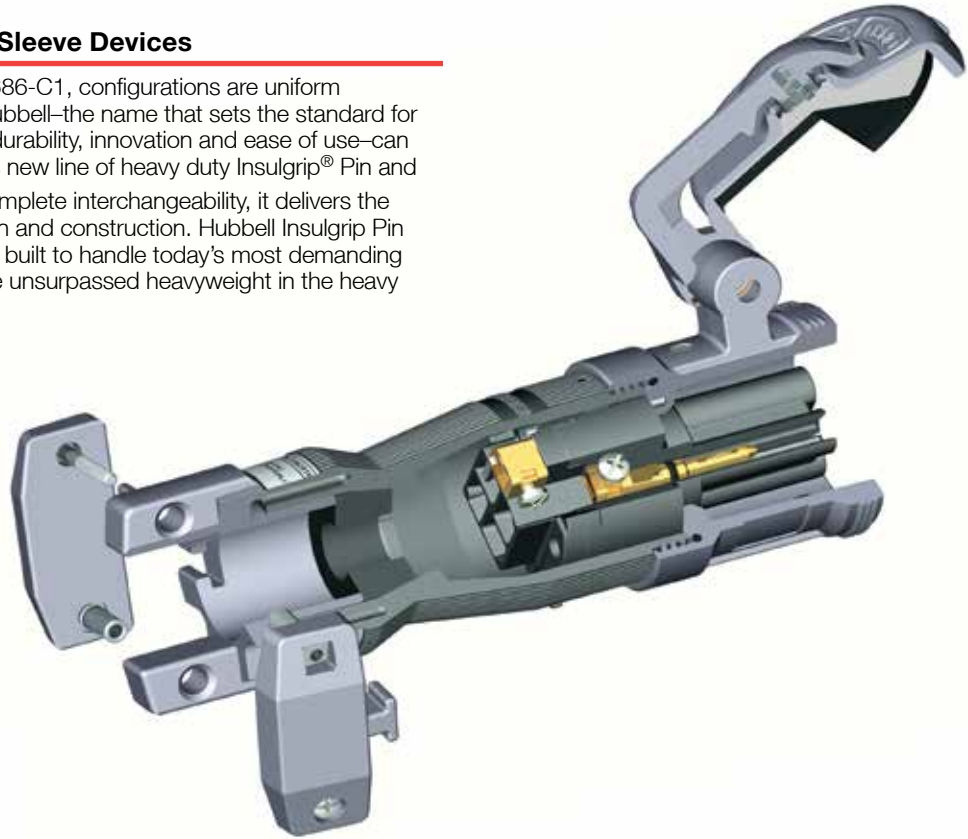
New Pole and Wire Terminology

| 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

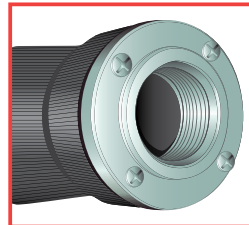
UL 1686 C1 Insulgrip® Pin and Sleeve Devices

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



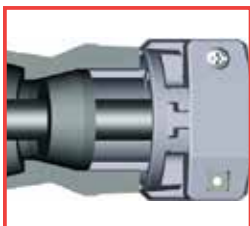
Powerful Mechanical Cord Grip

- 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

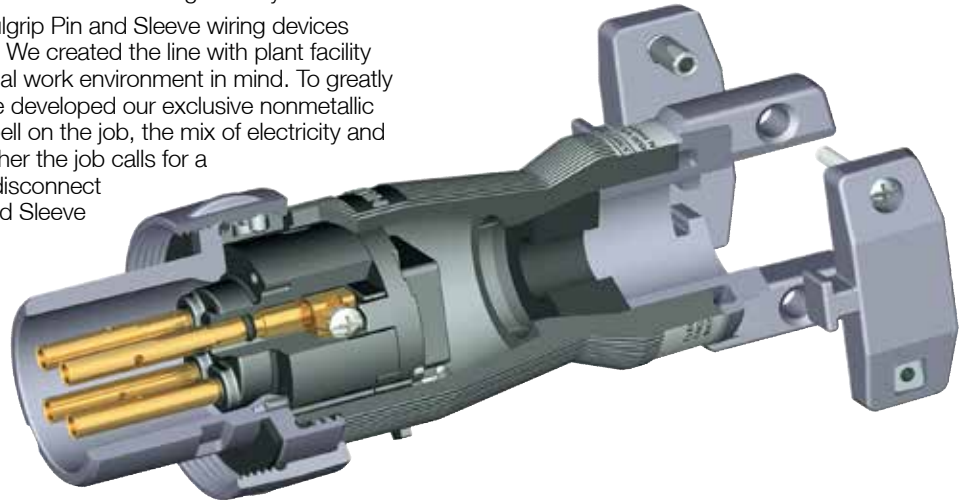
- Interlocking box terminals ensure that terminal screws remain secure and cannot loosen
- The floating box is designed to obtain high-torque values without damaging stranded conductors

Features and Benefits

UL 1686 C1 Insulgrip® Pin and Sleeve Devices

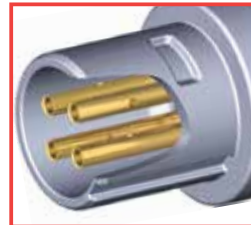
Metallic where you want it, non-metallic where you need it. Different from traditional all-metallic devices, Hubbell Pin and Sleeve wiring devices are designed to provide metallic shrouding where you want it and a non-metallic housing where you need it.

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



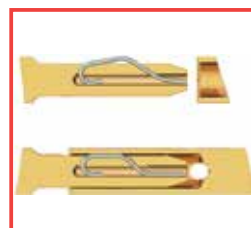
Thermoset Polyester Contact Carrier

- 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 | HBL330RS1W | HBL330PS1W | HBL330CS1W | IN330FS1 | IN330MS1 |
| | 3P 4W |  | 600/250 | HBL430RS1W | HBL430PS1W | HBL430CS1W | IN430FS1 | IN430MS1 |
| | 4P 5W |  | 600/250 | HBL530RS1W | HBL530PS1W | HBL530CS1W | IN530FS1 | IN530MS1 |
| 60 | 2P 3W |  | 600/250 | HBL360RS1W | HBL360PS1W | HBL360CS1W | IN360FS1 | IN360MS1 |
| | 3P 4W |  | 600/250 | HBL460RS1W | HBL460PS1W | HBL460CS1W | IN460FS1 | IN460MS1 |
| | 4P 5W |  | 600/250 | HBL560RS1W | HBL560PS1W | HBL560CS1W | IN560FS1 | IN560MS1 |
| 100 | 2P 3W |  | 600/250 | HBL3100RS1W | HBL3100PS1W | HBL3100CS1W | IN3100FS1 | IN3100MS1 |
| | 3P 4W |  | 600/250 | HBL4100RS1W | HBL4100PS1W | HBL4100CS1W | IN4100FS1 | IN4100MS1 |
| | 4P 5W |  | 600/250 | HBL5100RS1W | HBL5100PS1W | HBL5100CS1W | IN5100FS1 | IN5100MS1 |
| 200 | 3P 4W |  | 600/250 | HBL4200RS1W | HBL4200PS1W | HBL4200CS1W | IN4200FS1† | IN4200MS1† |
| | 4P 5W |  | 600/250 | HBL5200RS1W | HBL5200PS1W | HBL5200CS1W | IN5200FS1† | IN5200MS1† |
| 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 | HBL330RS2W | HBL330PS2W | HBL330CS2W | IN330FS2 | IN330MS2 |
| | 3P 4W |  | 600/250 | HBL430RS2W | HBL430PS2W | HBL430CS2W | IN430FS2 | IN430MS2 |
| 60 | 2P 3W |  | 600/250 | HBL360RS2W | HBL360PS2W | HBL360CS2W | IN360FS2 | IN360MS2 |
| | 3P 4W |  | 600/250 | HBL460RS2W | HBL460PS2W | HBL460CS2W | IN460FS2 | IN460MS2 |
| 100 | 2P 3W |  | 600/250 | HBL3100RS2W | HBL3100PS2W | HBL3100CS2W | IN3100FS2 | IN3100MS2 |
| | 3P 4W |  | 600/250 | HBL4100RS2W | HBL4100PS2W | HBL4100CS2W | IN4100FS2 | IN4100MS2 |
| 200 | 2P 3W |  | 600/250 | HBL3200RS2W | HBL3200PS2W | HBL3200CS2W | IN3200FS2† | IN3200MS2† |
| | 3P 4W |  | 600/250 | HBL4200RS2W | HBL4200PS2W | HBL4200CS2W | IN4200FS2† | IN4200MS2† |

| 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 | M5200RS1 | M5200PS1 | M5200CS1 | 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



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 |  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.



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" | MB301W |
| | 30 | 1" | MB302W |

Metallic 15° Angle Back Box*

| Description | Amps | NPT Hub Size | Catalog Number |
|---------------------------|------|--------------|----------------|
| Back box for 60A devices. | 60 | 1" | MB601W |
| | 60 | 1 1/4" | MB602W |
| | 60 | 1 1/2" | MB603W |

Metallic Feed-Thru Back Box*

| Description | Amps | NPT Hub Size | Catalog Number |
|---|------|--------------|----------------|
| Straight feed-thru box for 30A devices. | 30 | 3/4" | MB303W |
| | 30 | 1" | MB304W |
| Straight feed-thru box for 60A devices. | 60 | 1" | MB604W |
| | 60 | 1 1/4" | MB605W |
| | 60 | 1 1/2" | MB606W |

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" | MB601002W |
| | 60/100 | 1 1/2" | MB601003W |
| | 60/100 | 2" | MB601004W |
| Four-way 45° angle box for 200A devices. | 200 | 2" | MB2003W |
| | 200 | 2 1/2" | MB2004W |
| 45° Angle adapter only for 200A devices. | 200 | - | AA20045 |

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" | MB601006W |
| | 60/100 | 1 1/2" | MB601007W |
| | 60/100 | 2" | MB601008W |

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 | CC3430 | ILR1** |
| Fits all 60A plugs and connectors. | 4 wire (Style 2) and all 5 wire | CC60 | ILR2** |
| | All 3 wire and 4 wire (Style 1) | CC60 | ILR3** |
| Fits all 100A plugs and connectors. | 4 wire (Style 2) and all 5 wire | CC100 | ILR4** |
| | All 3 wire and 4 wire (Style 1) | CC100 | ILR5** |
| Fits all 200A plugs and connectors. | All 3, 4, 5 wire | CC201 | - |

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 | SAB12 | 074093402 |
| | 3/4" NPT | SAB34 | 074093403 |
| | 1" NPT | SAB100 | 074093404 |
| 60 Amp | 1" NPT | SAC100 | 074093404 |
| | 1 1/4" NPT | SAC125 | 074093405 |
| 100 Amp | 1 1/4" NPT | SAD125 | 074093405 |
| | 1 1/2" NPT | SAD150 | 074093406 |

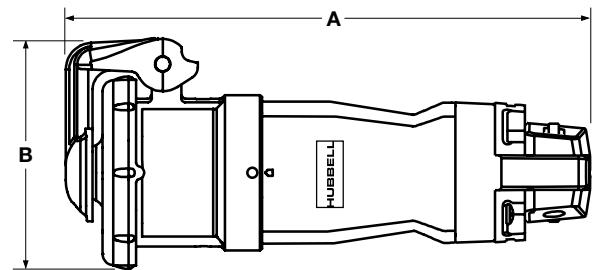
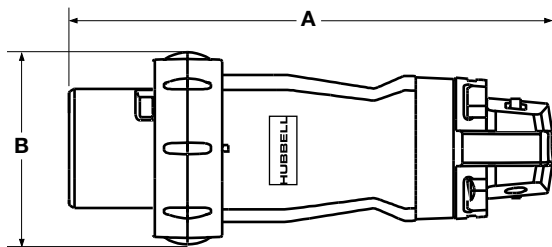


Plug Dimensions

| 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) |

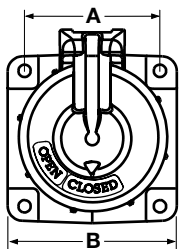
Connector Body Dimensions

| 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) |

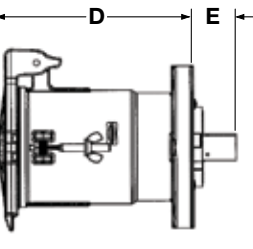
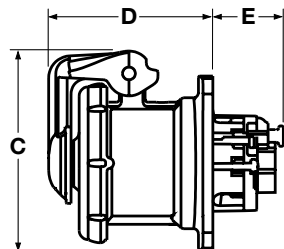


Receptacle Dimensions

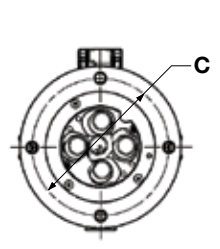
| Amps | Type | A | | B | | C | | D | | E | |
|------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| | | Style I | Style II | Style I | Style II | Style I | Style II | Style I | Style II | Style I | 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) | |



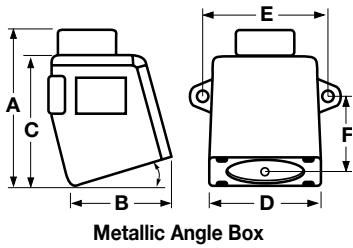
30, 60 and 100 Amp



200 Amp



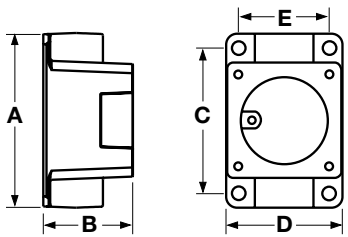
Dimensions in Inches (mm)



Metallic Angle Box

Metallic Angle Back Box

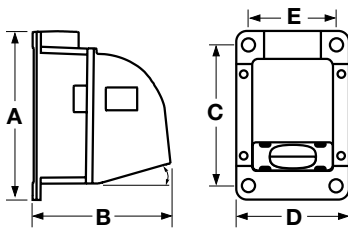
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Catalog Number |
|-------------------------------------|--------------|---------------|---------------|---------------|--------------|---------------|--------------|----------------|
| 30° 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) | MB301W |
| | 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) | MB302W |
| 15° Angle back box for 60A devices. | 1" | - | 4.80" (121.9) | - | - | 5.25" (133.4) | 2.69" (68.3) | MB601W |
| | 1¼" | - | 4.80" (121.9) | - | - | 5.25" (133.4) | 2.69" (68.3) | MB602W |
| | 1½" | - | 4.80" (121.9) | - | - | 5.25" (133.4) | 2.69" (68.3) | MB603W |



Metallic Feed-Thru Box

Metallic Feed-Thru Back Box

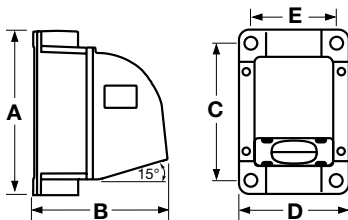
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Catalog Number |
|---------------------------|--------------|---------------|--------------|---------------|---------------|--------------|-------------|----------------|
| Back box for 30A devices. | ¾" | 5.35" (136.0) | 2.91" (74.0) | 4.53" (115.0) | 3.59" (91.0) | 2.62" (67.0) | - | MB303W |
| | 1" | 5.35" (136.0) | 2.91" (74.0) | 4.53" (115.0) | 3.59" (91.0) | 2.62" (67.0) | - | MB304W |
| 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) | - | MB604W |
| | 1¼" | 6.50" (165.1) | 3.80" (97.0) | 5.75" (146.1) | 4.50" (114.3) | 3.50" (88.9) | - | MB605W |
| | 1½" | 6.50" (165.1) | 3.80" (97.0) | 5.75" (146.1) | 4.50" (114.3) | 3.50" (88.9) | - | MB606W |



Metallic Four-Way Angle Box

Metallic Four-Way 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 |
|---|--------------|----------------|---------------|---------------|---------------|---------------|-------------|------------------|
| 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) | - | MB601002W |
| | 1½" | 7.92" (201.0) | 8.52" (216.0) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601003W |
| | 2" | 7.92" (201.0) | 8.52" (216.0) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601004W |
| 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) | - | MB2003W |
| | 2½" | 10.82" (274.8) | 9.86" (250.4) | 9.50" (241.3) | 8.17" (207.5) | 6.75" (171.5) | - | MB2004W |
| 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) | - | AA20045 |



Metallic Feed-Thru Angle Box

Metallic Four-Way Feed-Thru 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) | 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) | - | MB601006W |
| | 1½" | 7.98" (202.7) | 8.55" (217.2) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601007W |
| | 2" | 7.98" (202.7) | 8.55" (217.2) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601008W |

Note: These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Dimensions in Inches (mm)



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 |
| Connector Body | |
| 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 |
| Receptacle | |
| 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 |

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) | 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. |

Materials

| | |
|---------------------|---|
| 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. |

Valox® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.
Rynite® is a registered trademark of E.I. DuPont Corp.



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 | | |
| 60 | 3P 4W | | 600/250 | | |



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 | | |
| 60 | 3P 4W | | 600/250 | | |

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. | 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 | Gray Style Switch |
|--|--------------------|-------------------|
| For 30A fused switches. | 30MIFRS | HBL30MIFRS |
| For 60A fused switches. Gray Style switch will retro fit Black Style switch. | – | HBL60MIFRS |
| For 30A unfused switches. | 30MISRS | HBL30MISRS |
| For 60A unfused switches. Gray Style switch will retro fit Black Style switch. | – | HBL60MISRS |

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 |



HBLRFT2

Replacement Mounting Feet

| Description | Catalog Number |
|--|----------------------------|
| Replacement mounting feet and screws for 30 and 60A fused mechanical interlocks. | HBLRFT2^A |

Note: ^APackage of 10 feet and 10 screws.



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

| | |
|--------------------------------|--|
| Electrical | |
| 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 |

| | |
|-------------------------|--|
| 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 housing. |
| Mounting | External adjustable 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 +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

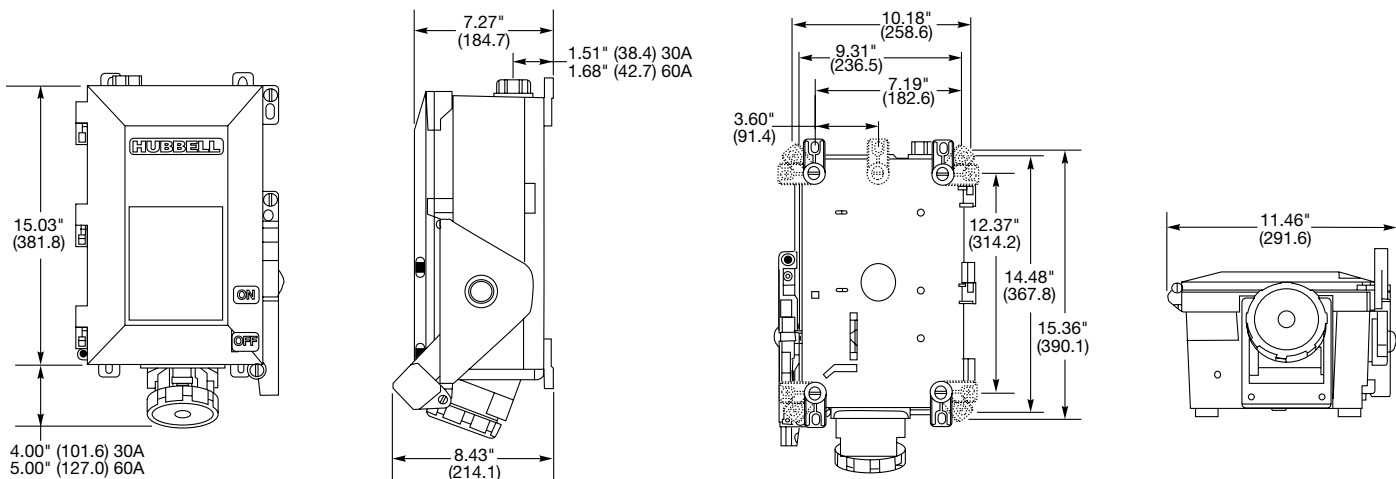
| 3 Phase A.C. | Standard | Maximum* |
|--------------|----------|----------|
| 200-240V | 3 | 7.5 |
| 480V | 5 | 15 |
| 600V | 7.5 | 20 |

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)

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



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 I & 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

- Internal switch horsepower rated as "suitable as a motor disconnect"
- 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



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

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



HBLVSQ3034

30 and 60 Amp Non-Fused UL1686 Mechanical Interlocks and Plugs

| Amp | Circuit | Mechanical Interlock | Plug |
|-------------------|---------|----------------------|------------------|
| 30 Amp 600V AC | 2W 3P | HBLVSQ3023 | HBLVP3385 |
| | 3W 4P | HBLVSQ3034 | HBLVP3485 |
| 60 AMP 600V AC | 2W 3P | HBLVSQ6023 | HBLVP6385 |
| | 3W 4P | HBLVSQ6034 | HBLVP6485 |

Note: 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.



HBLVP3485

Horsepower Ratings (VAC)*

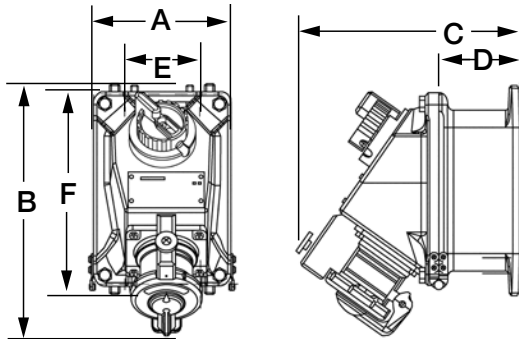


| Amp | Circuit | 120 | 240 | 480 | 600 |
|--------|---------|-----|-----|-----|-----|
| 30 Amp | 1Ø | 2 | 5 | 10 | 15 |
| | 3Ø | 3 | 7.5 | 15 | 20 |
| 60 Amp | 1Ø | – | 10 | 15 | 20 |
| | 3Ø | – | 10 | 25 | 30 |

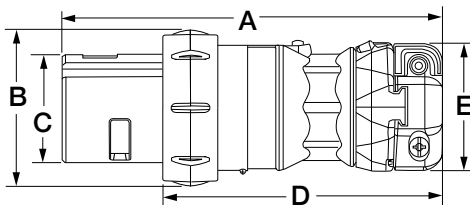
Note: *Internal switch only.

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) |



Dimensions in Inches (mm)

| 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) |