

# IEC Pin & Sleeve

## HBL Series Dual Certified Plugs and Connectors

Hubbell's new line of IEC 60309 Valox Pin & Sleeve Devices are **dual certified for both US and European markets**. They are ideal for the data center and high tech server industry because customers can use the same device for multiple electrical applications globally.

Devices are **UL Listed/ CSA Certified** to bi-national standard CSA C22.2 No. 182.1-07/UL 1682 for the North American market and are **TUV Rheinland Certified** and **UL Classified** for the European and International markets. These devices are IP67 Rated, RoHS compliant and showcase all the inherent safety benefits of their Valox V-0 rated housings.

Our robust offering includes plugs, connectors, receptacles and inlets. These devices are available in 30/32A, 60/63A and 100/125A in 3-pole, 4-wire and 4-pole 5-wire. All these device configurations are 6 o'clock ground/earth pin. A complete line of accessories are also available.



Rating					Watertight Devices			
Amps	Poles And Wires	Configuration Recep./ Conn.	Plug	AC Voltage	Receptacle	Plug	Connector	Inlet
30/32	3P 4W			380-415V	HBL430R6V02	HBL430P6V02	HBL430C6V02	HBL430B6V02
	4P 5W			200/346V 240/415V	HBL530R6V02	HBL530P6V02	HBL530C6V02	HBL530B6V02
60/63	3P 4W			380-415V	HBL460R6V02	HBL460P6V02	HBL460C6V02	HBL460B6V02
	4P 5W			200/346V 240/415V	HBL560R6V02	HBL560P6V02	HBL560C6V02	HBL560B6V02
100/125	3P 4W			380/415V	HBL4100R6V02*	HBL4100P6V02*	HBL4100C6V02*	HBL4100B6V02*
100/125	4P 5W			200/346V 240/415V	HBL5100R6V02*	HBL5100P6V02*	HBL5100C6V02*	HBL5100B6V02*

\* Special Order. Consult factory regarding your 100/125A needs.



**BB60N**



**BB601W**



**FW6010055**



**FT202W**



**FW60100**



**SAB34**

### 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 30/32A devices.	1"	<b>BB2030N</b>
Back box for 60/63A devices.	1¼"	<b>BB60N</b>
Back box for 100/125A devices.	1½"	<b>BB100N</b>

Note: \*Hub is not included; order one of the following Raco® 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\*\*

Description	NPT Hub Size	Catalog Number
Back box for 30/32A devices.	¾"	<b>BB201W</b>
	1"	<b>BB301W</b>
Back box for 60/63A devices.	1¼"	<b>BB601W</b>
	1½"	<b>BB602W</b>
Back box for 100/125A devices.	1½"	<b>BB1001W</b>
	2"	<b>BB1002W</b>

Note: \*\*These boxes are cast aluminum, suitable for IP56 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 30/32A devices.	1"	<b>AB203055</b>
Angle adapter only.		<b>AA203055</b>
Back box and adapter for 60/63A and 100/125A devices.	1½"	<b>FW6010055</b>
Angle adapter only.		<b>AA6010055</b>

Note: \*\*These boxes are cast aluminum, suitable for IP56 requirements and are finished with enamel paint.

#### Metallic Feed-Thru Back Box\*\*

Description	NPT Hub Size	Catalog Number
Feed-thru box for 30/32A devices.	¾"	<b>FT202W</b>
	1"	<b>FT302W</b>

Note: \*\*These boxes are cast aluminum, suitable for IP56 requirements and are finished with enamel paint.

#### Metallic Four-Way 15° Angle Back Box\*\*

Description	NPT Hub Size	Catalog Number
Four-way box for 60/63A and 100/125A devices.	1½"	<b>FW60100</b>

Note: \*\*These boxes are cast aluminum, suitable for IP56 requirements and are finished with enamel paint.

#### Liquidtight Adapters

Machined aluminum adapters are available to provide a means for attaching flexible liquidtight metal conduit to the 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.

Rating of Hubbell Pin and Sleeve Device	Liquidtight Conduit Size	Hubbell Liquidtight Adapter
30/32 Amp 4 wire	½" NPT	<b>SAB12</b>
	¾" NPT	<b>SAB34</b>
	1" NPT	<b>SAB100</b>
30/32 Amp 5 wire and 60/63 Amp (all)	½" NPT	<b>SAC12</b>
	¾" NPT	<b>SAC34</b>
	1" NPT	<b>SAC100</b>
100/125 Amp (all)	1¼" NPT	<b>SAC125</b>
	1½" NPT	<b>SAD125</b>
	1½" NPT	<b>SAD150</b>

### Plug Dimensions

Type	Dimensions in Inches (mm)		
	A	B	Cord Grip Range
<b>HBL430P6V02</b>	8.05" (204.5)	3.74" (95.0)	.375"-1.250" (9.5-31.8)
<b>HBL530P6V02</b>	8.54" (216.9)	4.02" (102.0)	.500"-1.450" (12.7-36.8)
<b>HBL460P6V02, HBL560P6V02</b>	10.15" (257.8)	4.49" (114.0)	.500"-1.450" (12.7-36.8)
<b>HBL4100P6V02, HBL5100P6V02</b>	12.63" (320.8)	4.92" (125.0)	1.065"-1.940" (27.1-49.3)

### Connector Body Dimensions

Type	A	B	Cord Grip Range
<b>HBL430C6V02</b>	9.05" (229.9)	4.27" (108.5)	.375"-1.250" (9.5-31.8)
<b>HBL530C6V02</b>	9.68" (245.8)	4.70" (119.5)	.500"-1.450" (12.7-36.8)
<b>HBL460C6V02, HBL560C6V02</b>	11.15" (283.2)	5.10" (129.5)	.500"-1.450" (12.7-36.8)
<b>HBL4100C6V02, HBL5100C6V02</b>	13.57" (344.7)	5.71" (145)	1.065"-1.940" (27.1-49.3)

### Inlet Dimensions

Type	A	B	C	D	E	F
<b>HBL430B6V02</b>	2.99" (76.0)	2.49" (63.2)	1.04" (26.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL530B6V02</b>	2.99" (76.0)	2.75" (69.9)	1.04" (26.5)	2.80" (71.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL460B6V02, HBL560B6V02</b>	4.04" (102.6)	2.97" (75.5)	1.18" (30.0)	3.46" (88.0)	4.50" (114.3)	3.88" (98.5)
<b>HBL4100B6V02, HBL5100B6V02</b>	4.53" (115)	3.44" (87.5)	1.95" (49.5)	3.94" (100.0)	5.50" (139.7)	4.88" (124.0)

### Receptacle Dimensions

Type	A	B	C	D	E	F
<b>HBL430R6V02</b>	4.27" (108.5)	3.09" (78.5)	1.16" (29.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL530R6V02</b>	4.70" (119.4)	3.09" (78.5)	1.16" (29.5)	2.83" (71.9)	3.75" (95.3)	3.13" (79.5)
<b>HBL460R6V02, HBL560R6V02</b>	5.10" (129.5)	4.07" (103.4)	1.69" (43.0)	3.46" (88.0)	4.50" (114.3)	3.88" (98.6)
<b>HBL4100R6V02, HBL5100R6V02</b>	5.71" (145)	4.23" (107.4)	2.46" (62.5)	3.95" (100.3)	5.50" (139.7)	4.88" (123.9)

Note: 30, 60 and 100A devices are dimensionally equivalent to 16, 32, 63 and 125A devices, respectively.

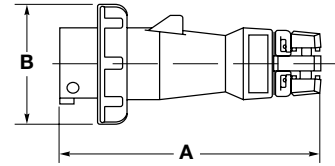
### Watertight Materials

Part	Material	Part	Material
<b>Inlet</b>		<b>Plug</b>	
Housing	Valox	Housing	Valox
Locking Ring	Reinforced Thermoplastic Polyester	Locking Ring	Reinforced Thermoplastic Polyester
Mounting Flange	Zytel® 101 Nylon	Sealing Gasket	Solid Neoprene
Mounting Screws	Stainless Steel (300 Series)	Cord Clamp	Reinforced Thermoplastic Polyester
Contact Carrier	High-Impact Thermoset	Gland Cap	Reinforced Thermoplastic Polyester
Retainer	High-Impact Thermoset	Gland	Solid Neoprene
Ground, Phase Pins	Brass (M-Series - Nickel-plated brass)	Cord Clamp Screws	Stainless Steel (300 Series)
Terminal Screws	Stainless Steel (300 Series)	Clamp Nut	Nickel-Plated Brass
Assembly Screws (2)	Stainless Steel (300 Series)	Gland Clamp Screws	Stainless Steel (300 Series)
Gaskets	Solid Neoprene	Contact Carrier	High-Impact Thermoset
<b>Connector Body</b>		<b>Receptacle</b>	
Housings	Valox	Housings	Valox
Cord Clamps	Reinforced Thermoplastic Polyester	Mounting Flange	Zytel® 101 Nylon
Glands	Solid Neoprene	Arm Spring	Stainless Steel (17-7 type)
Cover Arms	Reinforced Thermoplastic Polyester	Cover Arm	Reinforced Thermoplastic Polyester
Arm Springs	Stainless Steel (17-7 type)	Cover	Reinforced Thermoplastic Polyester
Covers	Reinforced Thermoplastic Polyester	Cover Screw	Nickel-plated brass
Cover Screw	Nickel-plated brass	Rotating Sealing Disc	Polycarbonate
Rotating Sealing Disc	Polycarbonate	Gaskets	Solid Neoprene
Gaskets	Solid Neoprene	Mounting Screws	Stainless Steel (300 Series)
Contact Carrier	High-Impact Thermoset	Terminal Screws	Stainless Steel (300 Series)
Retainer	High-Impact Thermoset	Phase, Ground Sleeves	Brass
Phase, Ground Sleeves	Brass	Sleeve Spring	30/32A Stainless Steel (300 Series); others are Beryllium Copper multi-contact inserts with silver plating
Sleeve Spring	30/32A 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)		

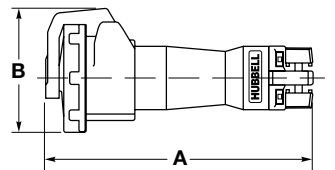
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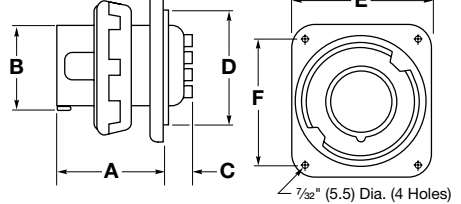
### Plug



### Connector Body



### Inlet



### Receptacle

