



**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.



**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. The devices are fully interchangeable with other manufacturers of UL1686 C1 devices.



**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.

**Hubbell Produces the Highest Quality and Most Extensive Pin and Sleeve Offering.**

Similar to our Twist-Lock® devices, Hubbell's Pin and Sleeve line of plugs, connectors, inlets, receptacles, mechanical interlocks and accessories are the highest performing products available. The HBL® series of IEC pin and sleeve and Insulgrip lines are assembled in the USA and have a full list of innovative features.

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.

The Insulgrip line of pin and sleeve is listed UL Type 4X which provides a watertight, dust-tight seal for harsh environments. The non-metallic bodies of the plugs and connectors provide excellent insulating, impact and UV resistant properties. The patented beryllium copper spring-pin design of the contacts maintains high unit pressure on mating sleeves. This ensures reliable electrical contact while minimizing heat rise. There are two styles of Insulgrip pin and sleeve devices. Style I devices achieve grounding by attaching the metallic shell to a ground terminal within the device. Style II devices feature redundant grounding by including an additional ground pin and sleeve to the grounding method used in Style I. The full Insulgrip line of devices is interchangeable with other manufacturers of UL1686 C1 devices which makes it ideal for use in industrial applications where multiple manufactures of product may be present.

Both the IEC and Insulgrip lines of pin and sleeve are used often in conjunction with mechanical interlocks. Mechanical interlocks prevent users from mating or breaking the circuit under load. This feature is critical to maintain a safe electrical connection. The interlocks are also available in reverse service applications where a generator is providing power to an electrical system.



**Circuit-Lock® Mechanical Interlocks**

Hubbell's Circuit-Lock enclosure products virtually eliminate making or breaking the circuit under load. This revolutionary design incorporates a disconnect switch and receptacle in one compact non-metallic unit. They are available in either a fused or non-fused versions.



**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.



**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.



**Reverse Service**

Generators and portable power distribution units require devices to deliver power in a reverse direction to power up a piece of equipment or building. Hubbell manufactures reverse service devices in both the IEC and Insulgrip Pin and Sleeve configurations as well as IEC Mechanical Interlock Inlets.

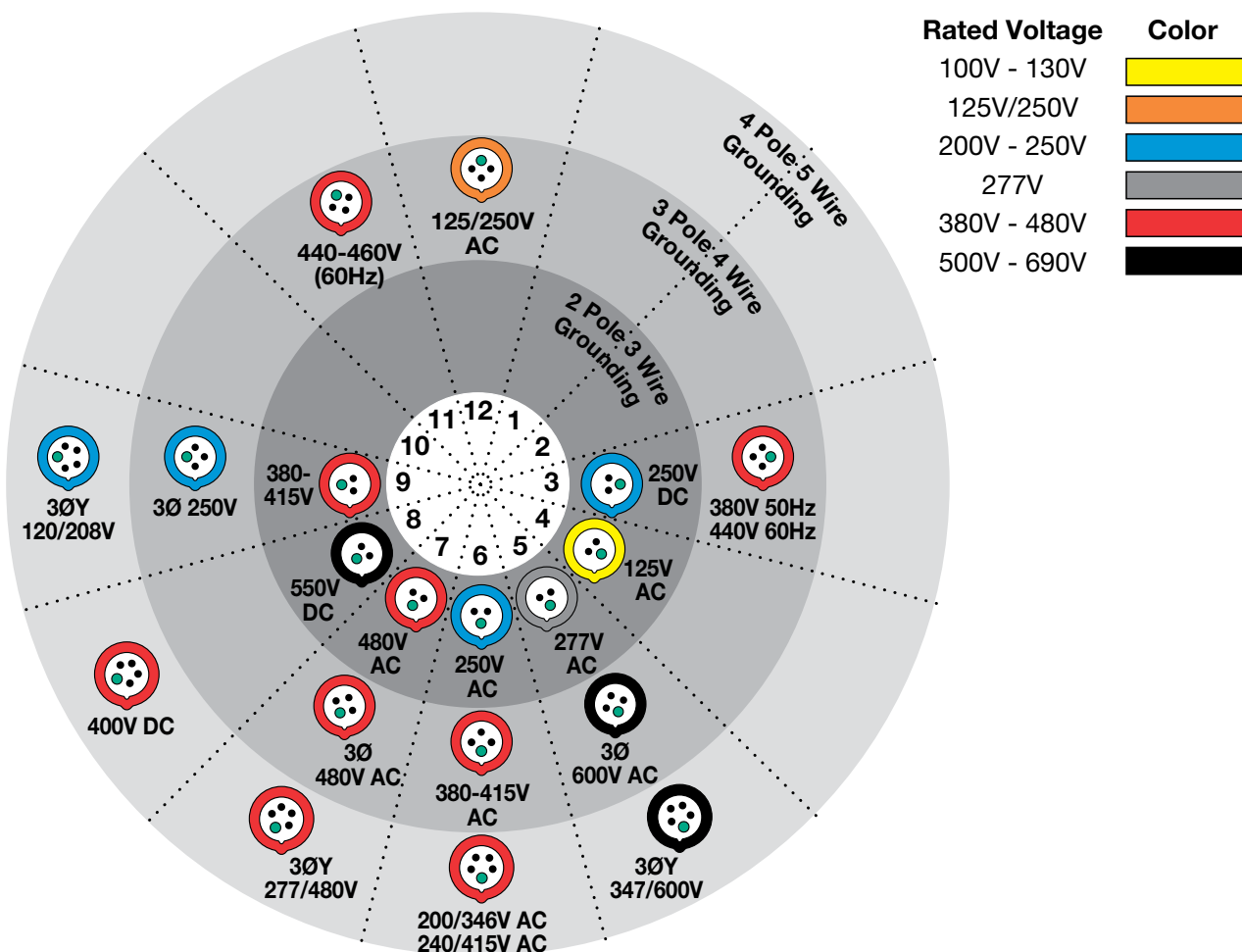


### Singly Rated Configurations

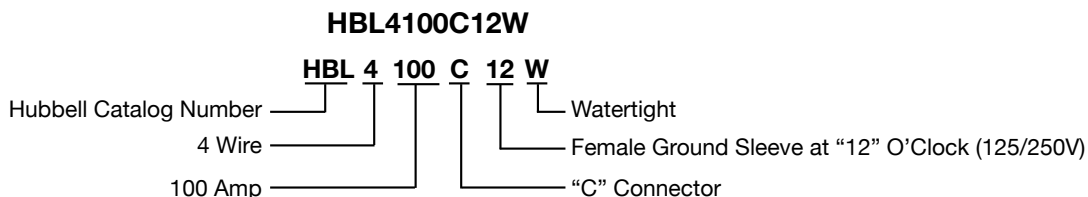
Hubbell Pin and Sleeve products are designed and manufactured to meet the International Standard IEC 60309-1 and IEC 60309-2. This device standard calls out a singly rated, non-interchangeable configuration for every voltage and type of service throughout the world. Pin and sleeve device housings are color coded by voltage rating.

### Voltage

The voltage is determined by the location of the female ground contact relative to the housing keyway. Simply by manufacturing the device with a ground contact in a certain "clock" position, the device will be rated for a particular voltage system. The diagram shows the keying position and the color coding that is associated with each voltage.



### Typical IEC Pin and Sleeve Catalog Number

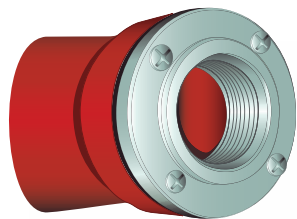


#### Explanation

- |   |  |  |   |  |  |
|---|--|--|---|--|--|
| <p><b>1 (HBL) Designates Hubbell Catalog Number</b></p> | <p><b>2 First Digit</b><br/>3-3 wire<br/>4-4 wire<br/>5-5 wire</p> | <p><b>3 Next Series Of Digits</b><br/>Preceding a letter<br/>20-20 Amp<br/>30-30 Amp<br/>60-60 Amp<br/>100-100 Amp</p> | <p><b>4 Letter</b><br/>P-Plug<br/>R-Receptacle<br/>C-Connector<br/>B-Inlet<br/>MI-Mechanical Interlock<br/>MIF-Mechanical Interlock Fused</p> | <p><b>5 Last Digit(s)</b><br/>After the letter. This denotes the position of the ground sleeve and the assigned voltage in the receptacle as it relates to the hours of the clock. This is done to eliminate interchangeability between devices with different voltages.</p> | <p><b>6 Letter: W</b><br/>Watertight</p> |
|---|--|--|---|--|--|



**IP67**  
 SUITABILITY



**Self-Closing Gasketed Cover**

Detents into position to fully close automatically.  
 Corrosion-resistant hardware

**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

**Watertight Neoprene Sealing Glands**

Provide a reliable seal at the cable entry point.  
 Prevents infiltration of contaminants

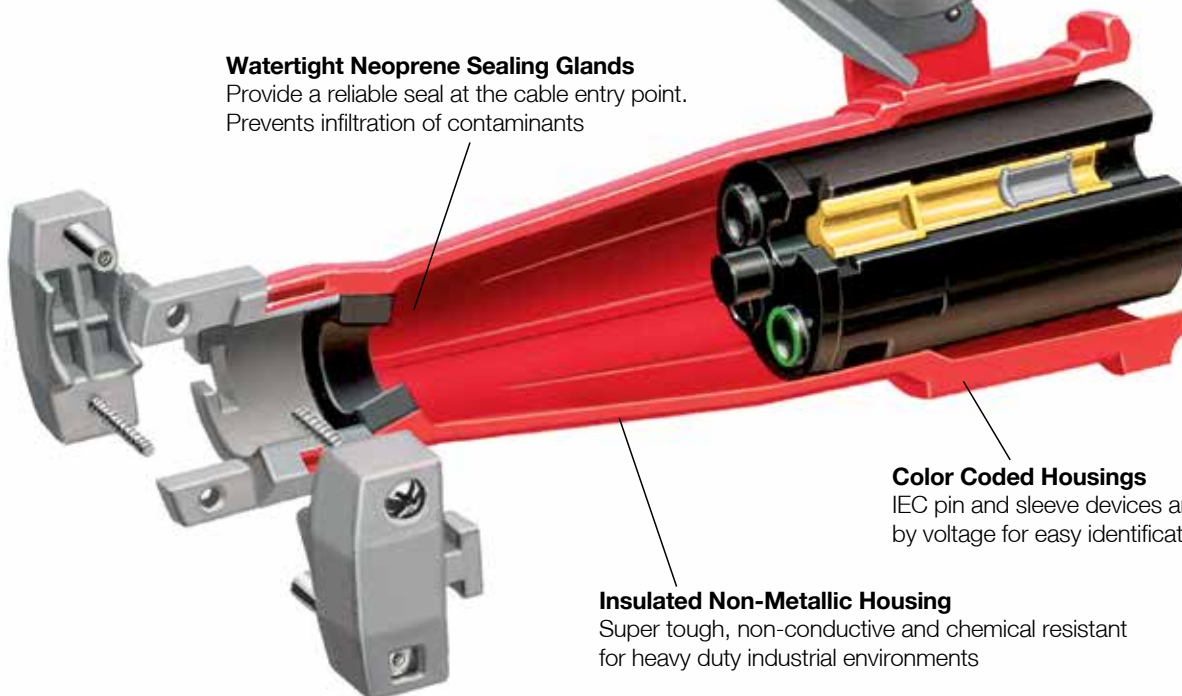


**Color Coded Housings**

IEC pin and sleeve devices are color coded by voltage for easy identification

**Insulated Non-Metallic Housing**

Super tough, non-conductive and chemical resistant for heavy duty industrial environments



**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.



**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**

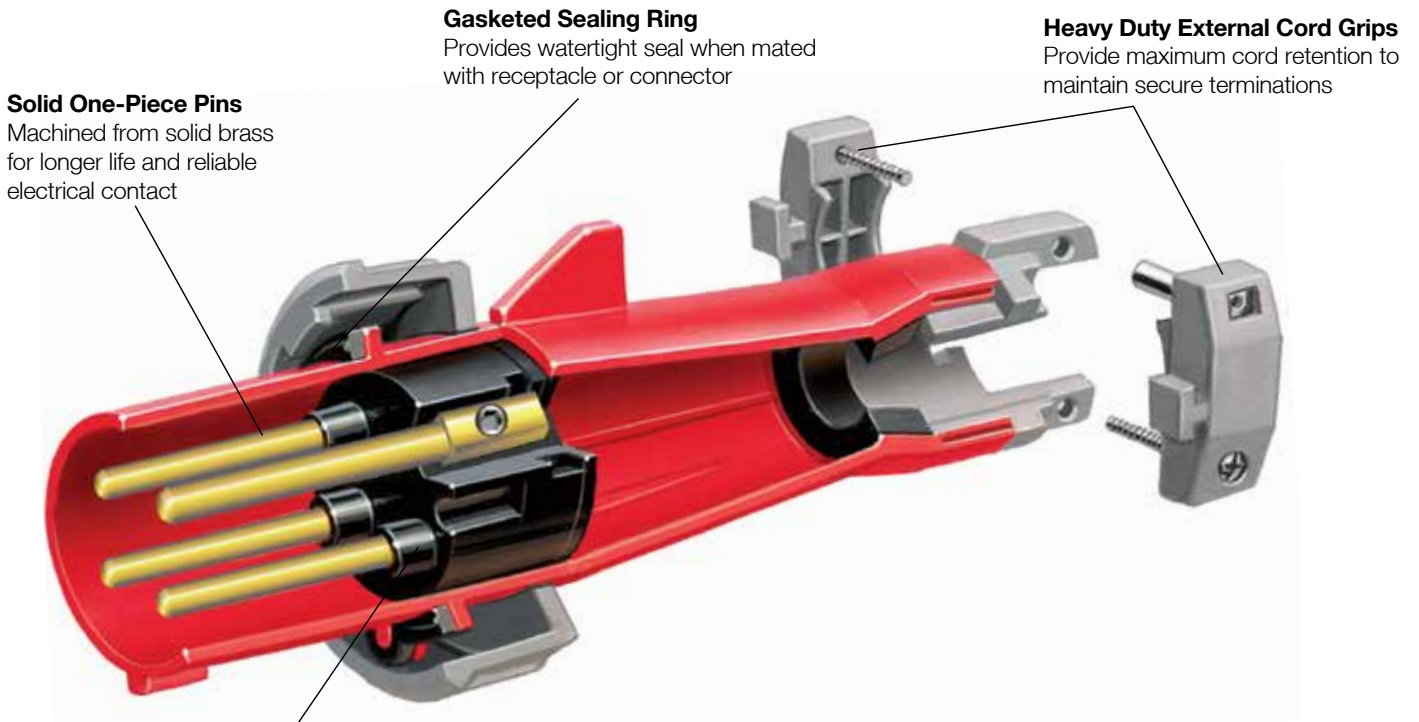
(60/63 and 100/125 Amp)  
 Recessed within the female sleeve, provides and maintains high unit pressure on mating pins to minimize temperature rise. Broaches oxide film to achieve low resistance contact for cooler operation.



**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.

**IP67**  
 SUITABILITY



**Solid One-Piece Pins**  
 Machined from solid brass for longer life and reliable electrical contact

**Gasketed Sealing Ring**  
 Provides watertight seal when mated with receptacle or connector

**Heavy Duty External Cord Grips**  
 Provide maximum cord retention to maintain secure terminations

**Contact Collar**  
 Raised collar surrounds each phase pin increasing the tracking resistance between contacts across the contact carrier face



**Lockout/Tagout**  
 Tapered opening on plug shroud accommodates up to 3/8 inch (9.7mm) lock shackle diameter



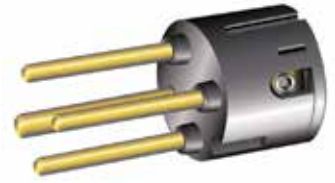
**Rugged One-Piece Housing**  
 Thick wall construction protects internal components, eliminates joints preventing infiltration of contaminants. Amperage/voltage rating and catalog number molded in housing for easy identification.



**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.



**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. The large box terminals are designed for North American conductors.



**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.

# IEC Pin and Sleeve Watertight Devices

20 and 30 Ampere – North American Ratings, 16 and 32 Ampere – International Ratings



Rating		Watertight Devices				Accessories			Replacement Interiors				
Amps	Poles and Wires	Configuration Recept./ Conn.	Plug/ Inlet	AC Voltage	Receptacle	Plug	Connector	Inlet	Back Boxes		Closure Caps	Recept./ Conn.	Plug/ Inlet
									Non-Metallic	Metallic*			
16	2P 3W			100–130V	HBL316R4W	HBL316P4W	HBL316C4W	HBL316B4W†	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	2P 3W			220–240V	HBL316R6W	HBL316P6W	HBL316C6W	HBL316B6W	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	3P 4W			380–415V	HBL416R6W	HBL416P6W	HBL416C6W	HBL416B6W†	BB2030N	BB201W BB301W	PC420	IN420DF	IN420DM
	4P 5W			220/380V 240/415V	HBL516R6W	HBL516P6W	HBL516C6W	HBL516B6W	BB2030N	BB201W BB301W	PC520	IN520EF†	IN520EM
20	2P 3W			125V	HBL320R4W	HBL320P4W	HBL320C4W	HBL320B4W	BB2030N	BB201W BB301W	PC320	IN320AF	IN320AM
	2P 3W			250V	HBL320R6W	HBL320P6W	HBL320C6W	HBL320B6W	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	2P 3W			480V	HBL320R7W	HBL320P7W	HBL320C7W	HBL320B7W	BB2030N	BB201W BB301W	PC320	IN320BF	IN320BM
	3P 4W			125/250V	HBL420R12W	HBL420P12W	HBL420C12W	HBL420B12W	BB2030N	BB201W BB301W	PC420	IN420CF	IN420CM
	3P 4W			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.

# IEC Pin and Sleeve Watertight Devices

60 and 100 Ampere – North American Ratings, 63 and 125 Ampere – International Ratings

IP67  
SUITABILITY



Rating		Watertight Devices				Accessories			Replacement Interiors				
Amps	Poles and Wires	Configuration Recep./ Conn.	Plug/ Inlet	AC Voltage	Receptacle	Plug	Connector	Inlet	Back Boxes		Closure Caps	Recep./ Conn.	Plug/ Inlet
									Non-Metallic	Metallic†			
60	2P 3W			125V	HBL360R4W	HBL360P4W	HBL360C4W	HBL360B4W	BB60N	BB601W BB602W	PC60	IN360AF	IN360AM
	2P 3W			250V	HBL360R6W	HBL360P6W	HBL360C6W	HBL360B6W	BB60N	BB601W BB602W	PC60	IN360BF	IN360BM†
	2P 3W			480V	HBL360R7W	HBL360P7W	HBL360C7W	HBL360B7W	BB60N	BB601W BB602W	PC60	IN360BF	IN360BM†
	3P 4W			125/250V	HBL460R12W	HBL460P12W	HBL460C12W	HBL460B12W	BB60N	BB601W BB602W	PC60	IN460CF	IN460CM
	3P 4W			30 250V	HBL460R9W	HBL460P9W	HBL460C9W	HBL460B9W	BB60N	BB601W BB602W	PC60	IN460DF	IN460DM
	3P 4W			30 480V	HBL460R7W	HBL460P7W	HBL460C7W	HBL460B7W	BB60N	BB601W BB602W	PC60	IN460DF	IN460DM
	3P 4W			30 600V	HBL460R5W	HBL460P5W	HBL460C5W	HBL460B5W	BB60N	BB601W BB602W	PC60	IN460DF	IN460DM
	4P 5W			30Y 120/208V	HBL560R9W	HBL560P9W	HBL560C9W	HBL560B9W	BB60N	BB601W BB602W	PC60	IN560EF	IN560EM†
	4P 5W			30Y 277/480V	HBL560R7W	HBL560P7W	HBL560C7W	HBL560B7W	BB60N	BB601W BB602W	PC60	IN560EF	IN560EM†
	4P 5W			30Y 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			30 250V	HBL4100R9W	HBL4100P9W	HBL4100C9W	HBL4100B9W	BB100N	BB1001W BB1002W	PC100	IN4100DF	IN4100DM
	3P 4W			30 480V	HBL4100R7W	HBL4100P7W	HBL4100C7W	HBL4100B7W	BB100N	BB1001W BB1002W	PC100	IN4100DF	IN4100DM
	3P 4W			30 600V	HBL4100R5W	HBL4100P5W	HBL4100C5W	HBL4100B5W	BB100N	BB1001W BB1002W	PC100	IN4100DF	IN4100DM
	4P 5W			30Y 120/208V	HBL5100R9W	HBL5100P9W*	HBL5100C9W	HBL5100B9W	BB100N	BB1001W BB1002W	PC100	IN5100EF	IN5100EM
	4P 5W			30Y 277/480V	HBL5100R7W	HBL5100P7W	HBL5100C7W	HBL5100B7W	BB100N	BB1001W BB1002W	PC100	IN5100EF	IN5100EM
	4P 5W			30Y 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 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

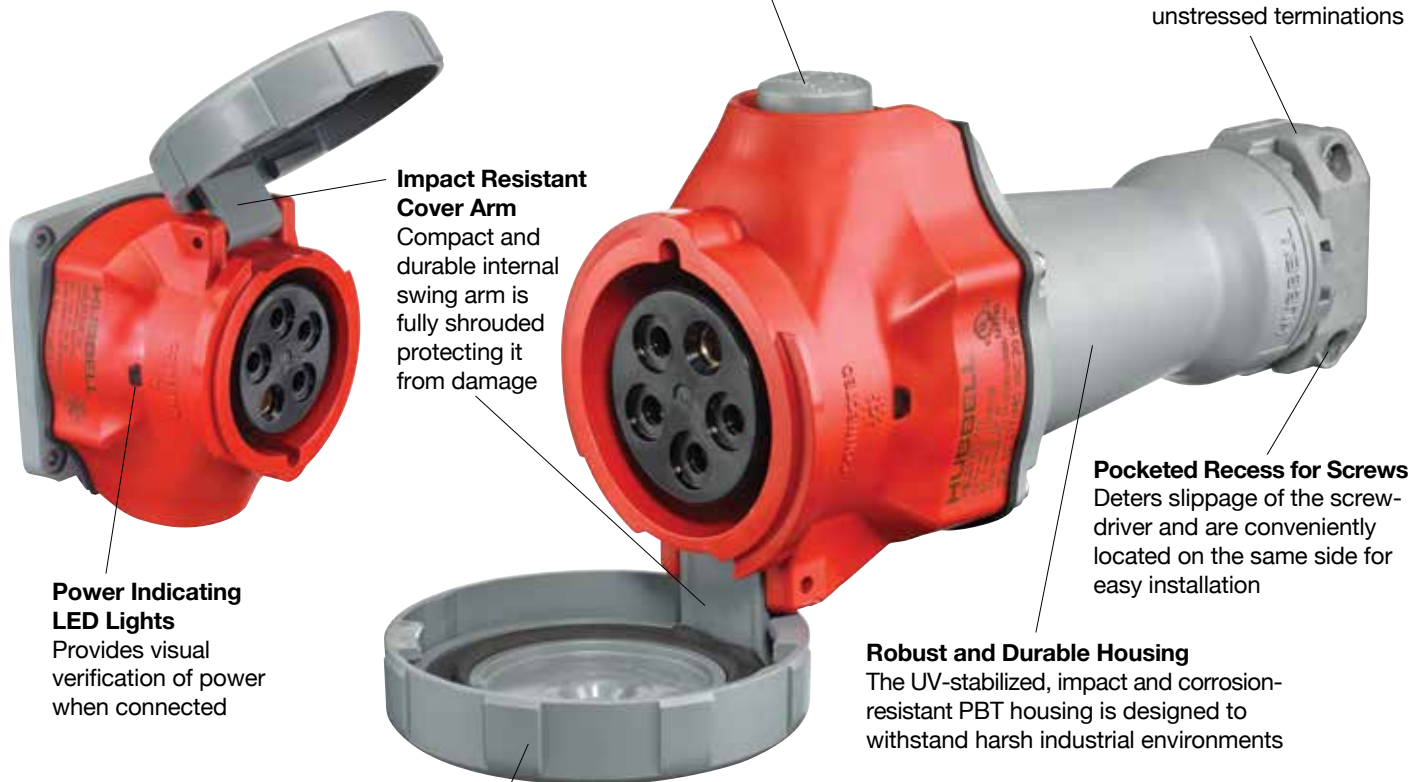
Device is similar in size to standard IEC 60309-2 devices. Receptacles mount to standard Hubbell IEC Pin and Sleeve Back Boxes

#### Spring-Loaded Disconnect Button

Oversized for easy actuation with gloved hands

#### Heavy Duty External Cord Grips

Provides maximum cord retention to maintain unstressed terminations



#### Impact Resistant Cover Arm

Compact and durable internal swing arm is fully shrouded protecting it from damage

#### Power Indicating LED Lights

Provides visual verification of power when connected

#### Pocketed Recess for Screws

Deters slippage of the screwdriver and are conveniently located on the same side for easy installation

#### Robust and Durable Housing

The 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

#### Spring-Loaded Cover

Spring-loaded to the open position, reminding users that the cover must be secured to ensure maximum ingress protection

#### Color Coded Housings

IEC pin and sleeve devices are color coded by voltage for easy identification

#### Ergonomic Design

Hubbell puts the Advantage™ into the palm of your hands with the easy-to-use leverage grip design from Hubbell



### The Advantages:

- **IEC 60309 Singularity 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-thru ground pin is first-to-make and last-to-break followed by switched neutral and phase contact(s).

- **Sleek and Modern Design**

The ergonomic device is easy to keep clean making it ideal for hygienic food processing facilities.

- **Permanent Labelless Markings**

Product ratings are laser-marked into the device and will not wash off for easy and permanent identification.

Rating					Pin and Sleeve Devices			
Amps	Poles & Wires	Configuration Recep./ Conn.	Plug/ Inlet	AC Voltage			HP	
30	2P 3W			125V	HBLS330C4W	HBLS330R4W	2	HBLS330P4W
30	2P 3W			250V	HBLS330C6W*	HBLS330R6W*	5	HBLS330P6W*
32	2P 3W			220–240V	HBLS330C6W*	HBLS330R6W*	5	HBLS330P6W*
30	2P 3W			480V	HBLS330C7W	HBLS330R7W	10	HBLS330P7W
32	2P 3W			100–130V	HBLS332C4W	HBLS332R4W	2	HBLS332P4W
30	3P 4W			125/250V	HBLS430C12W	HBLS430R12W	2	HBLS430P12W
30/32	3P 4W			3Ø 250V	HBLS430C9W*	HBLS430R9W*	10	HBLS430P9W*
30	3P 4W			3Ø 480V	HBLS430C7W	HBLS430R7W	20	HBLS430P7W
30	3P 4W			3Ø 600V	HBLS430C5W	HBLS430R5W	30	HBLS430P5W
30/32	3P 4W			380–415V	HBLS430C6W*	HBLS430R6W*	7.5	HBLS430P6W*
32	3P 4W			380–440V	HBLS432C3W	HBLS432R3W	10	HBLS432P3W
30	4P 5W			30Y 347/600V	HBLS530C5W	HBLS530R5W	30	HBLS530P5W
30	4P 5W			200/346–240/415V	HBLS530C6W*	HBLS530R6W*	7.5	HBLS530P6W*
32	4P 5W			220/380V 240/415V	HBLS530C6W*	HBLS530R6W*	7.5	HBLS530P6W*
30	4P 5W			30Y 277/480V	HBLS530C7W	HBLS530R7W	20	HBLS530P7W
30/32	4P 5W			30Y 120/208V	HBLS530C9W*	HBLS530R9W*	10	HBLS530P9W*

Note: \*Certain IEC configurations allow for a single product to be certified as both a North American (Series 2) and International ampereage (Series 1). These products are marked accordingly with both the UL Listing and UL Classified markings.

\*\*Mating plug required to maintain 4X/IP69k ratings. HP Ratings when used with ADVANTAGE™ Series connections.

## HP Ratings

120V 1Ø	240V 1Ø	208V 1Ø	240V 3Ø	480V 3Ø	600V 3Ø
2 HP	5 HP	10 HP	10 HP	20 HP	30 HP

## Materials

Part	Material	Connector	Receptacle	Plug
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



IP67  
SUITABILITY



**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
- Water Treatment
- Meat Packing
- Agriculture
- Factory
- Washdown
- Construction
- Outdoor Entertainment
- Temporary Power

**Standard Service**

Rating					Watertight Devices			Accessories		
Amps	Poles And Wires	Configuration Recep./ 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.



**IP67**  
SUITABILITY



**DC Rated Pin and Sleeve Devices**

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	<b>HBL360R8WDC*</b>	<b>HBL360P8V0DC</b>	<b>HBL360C8V0DC</b>
100	2P 3W			550V	<b>HBL3100R8WDC</b>	<b>HBL3100P8V0DC</b>	<b>HBL3100C8V0DC</b>
	4P 5W			400V	<b>HBL5100R8WDC</b>	<b>HBL5100P8V0DC</b>	<b>HBL5100C8V0DC</b>

Note: \*Inlet available - HBL360B8WDC.

**IP67**  
SUITABILITY



**Dual Certified Pin and Sleeve Devices**

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	<b>HBL530R6V02</b>	<b>HBL530P6V02</b>	<b>HBL530C6V02</b>	<b>HBL530B6V02</b>
60/63	3P 4W			380-415V	<b>HBL460R6V02</b>	<b>HBL460P6V02</b>	<b>HBL460C6V02</b>	<b>HBL460B6V02</b>
	4P 5W			200/346V 240/415V	<b>HBL560R6V02</b>	<b>HBL560P6V02</b>	<b>HBL560C6V02</b>	<b>HBL560B6V02</b>

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



**BB60N**



**BB601W**



**FW6010055**



**FT202W**



**FW60100**



**HBL2030AP**



**AA2030PS**

## Back Boxes

Hubbell manufactures an extensive line of back boxes for use with IEC Pin and Sleeve devices. Each back box is designed to give the user the maximum amount of wiring room while achieving grounding to metallic conduit. Hubbell back boxes are available in non-metallic and cast metal versions.

### Non-Metallic 15° Angle Back Box

Description	NPT Hub Size*	Catalog Number
Back box for 16, 20, 30 and 32A devices.	1"	<b>BB2030N</b>
Back box for 60 and 63A devices.	1¼"	<b>BB60N</b>
Back box for 100 and 125A devices.	1½"	<b>BB100N</b>

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

### Metallic 15° Angle Back Box\*\*

Description	NPT Hub Size	Catalog Number
Back box for 16, 20, 30 and 32A devices.	¾"	<b>BB201W</b>
	1"	<b>BB301W</b>
Back box for 60 and 63A devices.	1¼"	<b>BB601W</b>
	1½"	<b>BB602W</b>
Back box for 100 and 125A devices.	1½"	<b>BB1001W</b>
	2"	<b>BB1002W</b>

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

### Metallic 55° Angle Back Box and Adapter\*\*

Description	NPT Hub Size	Catalog Number
Feed-thru box back box and adapter for 16, 20, 30 and 32A devices.	1"	<b>AB203055</b>
Angle adapter only.		<b>AA203055</b>
Back box and adapter for 60, 63, 100 and 125A devices.	1½"	<b>FW6010055</b>
Angle adapter only.		<b>AA6010055</b>

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

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

Description	NPT Hub Size	Catalog Number
Feed-thru box for 16, 20, 30 and 32A devices.	¾"	<b>FT202W</b>
	1"	<b>FT302W</b>

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

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

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

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

### Straight Wall Box Adapter

Description	Catalog Number
Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to 2-gang, device boxes and FD boxes.	<b>HBL2030AP</b>

### Angle Wall Box Adapter

Description	Catalog Number
Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to standard wall boxes.	<b>AA2030PS</b>

*Note: Adapts 20 and 30A Watertight Pin and Sleeve receptacle to single, 2-gang standard wall box and 4 or 4¼ inch square for non-watertight applications.*



## Closure Caps

Cap assemblies provide watertight sealing to a disconnected male IEC Pin and Sleeve plug or inlet. Manufactured of the same tough non-metallic material as the watertight IEC Pin and Sleeve devices for corrosion and abuse resistance.

Description	Catalog Number
Fits all 16 and 20A, 3 wire plugs and inlets.	<b>PC320</b>
Fits all 16 and 20A, 4 wire plugs and inlets.	<b>PC420</b>
Fits all 16 and 20A, 5 wire plugs and inlets.	<b>PC520</b>
Fits all 30 and 32A, 3 and 4 wire plugs and inlets.	<b>PC3430</b>
Fits all 30 and 32A, 5 wire plugs and inlets.	<b>PC530</b>
Fits all 60 and 63A plugs and inlets.	<b>PC60</b>
Fits all 100 and 125A plugs and inlets.	<b>PC100</b>



**PC3430**

## Cover Assemblies

Replacement cover assemblies for use with watertight connector bodies and receptacles. Kit contains cover, arm assembly and installation tool.

Description	Catalog Number
Fits all 16 and 20A, 3 wire watertight female devices.	<b>CA320</b>
Fits all 16 and 20A, 4 wire watertight female devices.	<b>CA420</b>
Fits all 16 and 20A, 5 wire watertight female devices.	<b>CA520</b>
Fits all 30 and 32A, 3 and 4 wire watertight female devices.	<b>CA3430</b>
Fits all 30 and 32A, 5 wire watertight female devices.	<b>CA530</b>
Fits all 60 and 63A watertight female devices.	<b>CA60</b>
Fits all 100 and 125A watertight female devices.	<b>CA100</b>



**CA3430**

## Cord Clamp and Locking Ring

Replacement cord clamp and locking ring for use with IEC plugs, connectors and inlets.

Description	Cord Clamp and Locking Ring	Locking Ring Only
Fits all 16 and 20A, 3 wire plugs, connectors and inlets.	<b>CC320</b>	<b>LR320*</b>
Fits all 16 and 20A, 4 wire plugs, connectors and inlets.	<b>CC420</b>	<b>LR420*</b>
Fits all 16 and 20A, 5 wire plugs, connectors and inlets.	<b>CC520†</b>	<b>LR520*</b>
Fits all 30 and 32A, 3 and 4 wire plugs, connectors and inlets.	<b>CC3430</b>	<b>LR3430*</b>
Fits all 30 and 32A, 5 wire plugs, connectors and inlets.	<b>CC530†</b>	<b>LR530*</b>
Fits all 60 and 63A plugs, connectors and inlets.	<b>CC60</b>	<b>LR60*</b>
Fits all 100 and 125A plugs, connectors and inlets.	<b>CC100</b>	<b>LR100*</b>



**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.

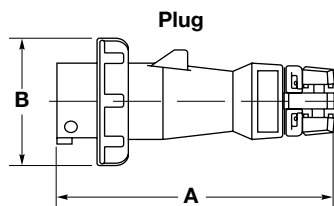


**SAB34**

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	½" NPT	<b>SAA12</b>	<b>074093402</b>
	¾" NPT	<b>SAA34</b>	<b>074093403</b>
16 and 20 Amp 5 wire and 30 and 32 Amp 3 and 4 wire	½" NPT	<b>SAB12</b>	<b>074093402</b>
	¾" NPT	<b>SAB34</b>	<b>074093403</b>
	1" NPT	<b>SAB100</b>	<b>074093404</b>
30 and 32 Amp 5 wire	¾" NPT	<b>SAC34</b>	<b>074093403</b>
30 and 32 Amp 5 wire and 60 and 63 Amp (all)	1" NPT	<b>SAC100</b>	<b>074093404</b>
	1¼" NPT	<b>SAC125</b>	<b>074093405</b>
100 and 125 Amp (all)	1¼" NPT	<b>SAD125</b>	<b>074093405</b>
	1½" NPT	<b>SAD150</b>	<b>074093406</b>

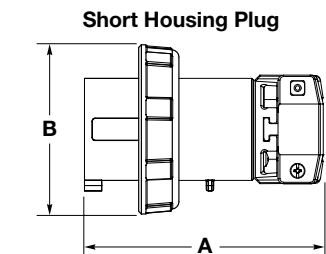


**074093403**



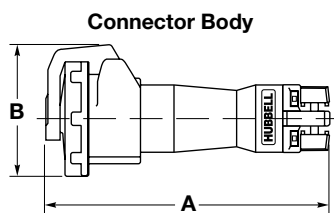
### Plug Dimensions

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



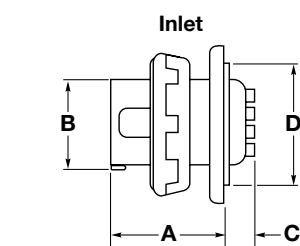
### Short Housing Plug Dimensions

Type	A	B	Cord Grip Range
<b>HBL5100P9WSH</b>	8.30" (210.82)	4.92" (125.0)	1.065"-1.940" (27.1-49.3)



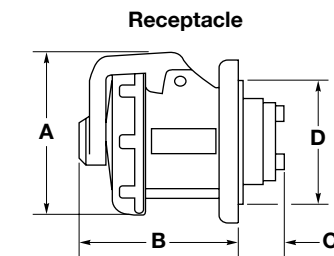
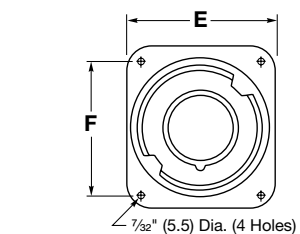
### Connector Body Dimensions

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



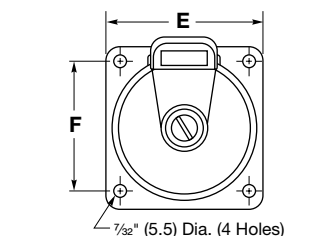
### Inlet Dimensions

Type	A	B	C	D	E	F
<b>HBL320B</b>	2.54" (64.5)	1.85" (47.0)	1.14" (29.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL420B</b>	2.54" (64.5)	2.11" (53.6)	1.14" (29.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL520B</b>	2.54" (64.5)	2.41" (61.2)	1.14" (29.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL330B</b>	2.99" (76.0)	2.49" (63.2)	1.04" (26.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL430B</b>	2.99" (76.0)	2.49" (63.2)	1.04" (26.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL530B</b>	2.99" (76.0)	2.75" (69.9)	1.04" (26.5)	2.80" (71.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL360B, HBL460B, HBL560B</b>	4.04" (102.6)	2.97" (75.5)	1.18" (30.0)	3.46" (88.0)	4.50" (114.3)	3.88" (98.5)
<b>HBL3100B, HBL4100B, M4100B, HBL5100B, M5100B</b>	4.53" (115)	3.44" (87.5)	1.95" (49.5)	3.94" (100.0)	5.50" (139.7)	4.88" (124.0)



### Receptacle Dimensions

Type	A	B	C	D	E	F
<b>HBL320R</b>	3.33" (84.5)	2.78" (70.6)	1.02" (26.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL420R</b>	3.66" (93.0)	2.78" (70.6)	1.02" (26.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL520R</b>	3.94" (100.0)	2.78" (70.6)	1.02" (26.0)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL330R</b>	4.27" (108.5)	3.09" (78.5)	1.16" (29.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL430R</b>	4.27" (108.5)	3.09" (78.5)	1.16" (29.5)	2.72" (69.0)	3.75" (95.3)	3.13" (79.5)
<b>HBL530R</b>	4.70" (119.4)	3.09" (78.5)	1.16" (29.5)	2.83" (71.9)	3.75" (95.3)	3.13" (79.5)
<b>HBL360R, HBL460R, HBL560R</b>	5.10" (129.5)	4.07" (103.4)	1.69" (43.0)	3.46" (88.0)	4.50" (114.3)	3.88" (98.6)
<b>HBL3100R, HBL4100R, M4100R, HBL5100R, M5100R</b>	5.71" (145)	4.23" (107.4)	2.46" (62.5)	3.95" (100.3)	5.50" (139.7)	4.88" (123.9)



Note: 20, 30, 60 and 100A devices are dimensionally equivalent to 16, 32, 63 and 125A devices, respectively.

Dimensions in Inches (mm)