

SECTION G

Table of Contents



**Advantage™ Series
Switch-Rated Devices**



**HBL® Watertight
IEC Pin and Sleeve**



**Circuit-Lock® Unfused and
Fused Mechanical Interlocks**



Product	Page
Products at a Glance	G-2
Configurations Chart	G-3
IEC Pin and Sleeve	
Advantage™ Series Switch-Rated Devices	G-6
Watertight Devices	G-10
Corrosion Resistant Devices	G-12
Data Center Pin and Sleeve	G-13
Back Boxes	G-14
Accessories	G-15
Dimensions	G-16
Horsepower Ratings	G-19
Unfused Circuit-Lock® Mechanical Interlocks Devices and “Reverse Service”	G-21
Accessories and Dimensions	G-22
Fused Circuit-Lock® Mechanical Interlocks Devices and Accessories	G-25
Dimensions	G-26

Product	Page
Low Profile Pin and Sleeve Devices and Specifications	G-28
Dimensions	G-29
IEC Pin and Sleeve Terminal Identification	G-30
UL 1686 C1 Insulgrip® Pin and Sleeve Style I and Style II Devices	G-34
“Reverse Service” Style I and II Devices	G-35
Back Boxes and Accessories	G-36
Dimensions	G-37
Insulgrip® Mechanical Interlocks Style II, Fused and Unfused Devices	G-41
Dimensions	G-42
Hazardous Location Devices Mechanical Interlocks and Plugs	G-44
Dimensions	G-44

Pin and Sleeve Devices/Mechanical Interlocks

Products at a Glance



Advantage™ Series Pin and Sleeve Switch-Rated Devices

- Advantage™ series devices are approved as disconnecting means for both motor circuitry and branch circuits
- Robust and durable housing, UV-stabilized, impact and corrosion-resistant PBT housing is designed to withstand harsh industrial environments



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



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



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



Back Boxes and Accessories

- A complete line of metallic and non-metallic back boxes, angle adapters, closure caps and liquidtight adapters are available
- Accessories aid with installation efficiencies and support the various applications in which the products are used



Circuit-Lock® Mechanical Interlocks

- IEC pin and sleeve devices are color coded by voltage for easy identification
- Available in either fused or non-fused versions
- IEC reverse service units available for safely connecting generators



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



Hazardous Location Devices

- Copper-free aluminum construction with electrostatically applied polyester/epoxy finish to prevent corrosion
- Large visible rotary handle with ON/OFF indicator allows a quick means of disconnecting power

Pin and Sleeve Devices/Mechanical Interlocks

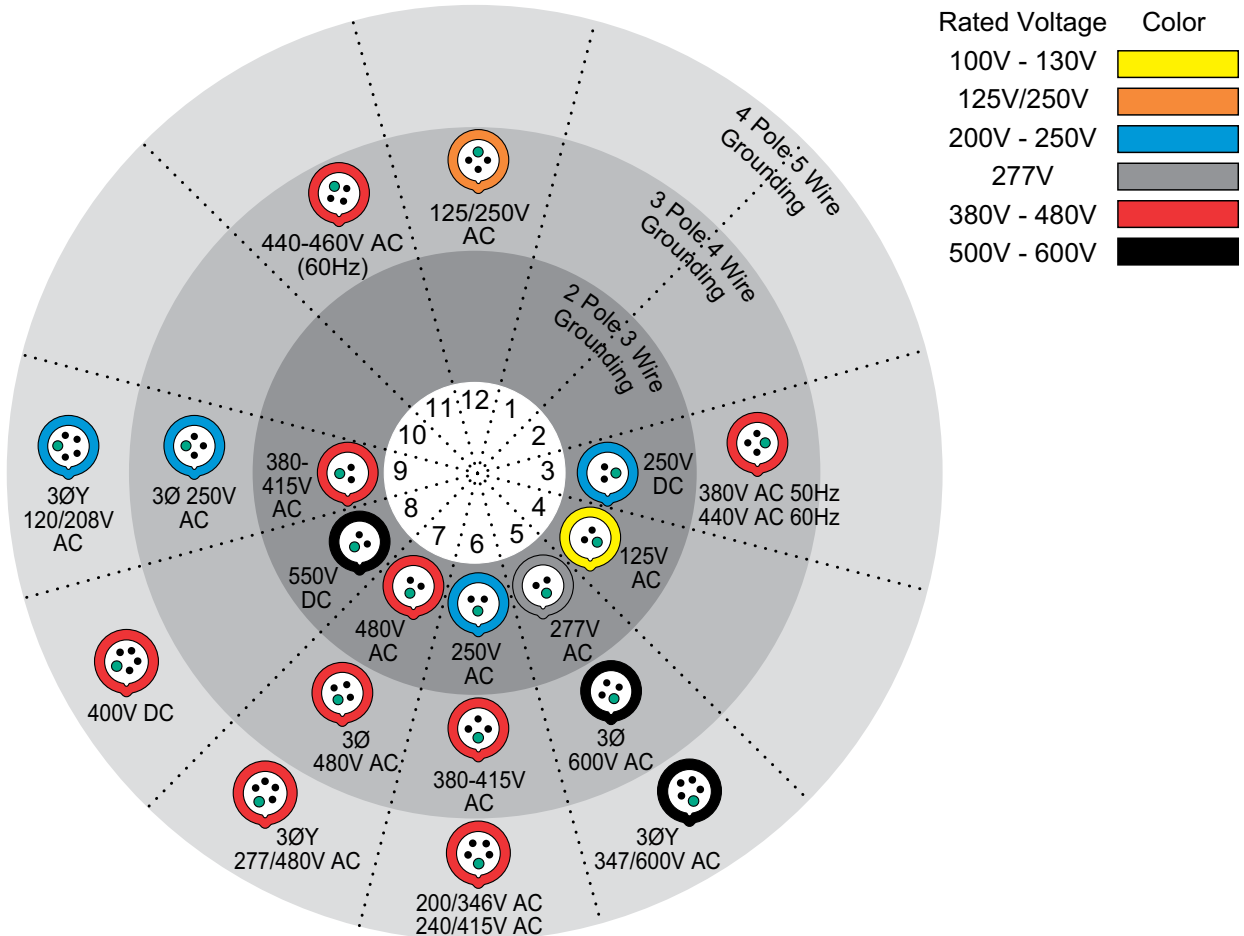
IEC Configurations Chart

Singly Rated Configurations

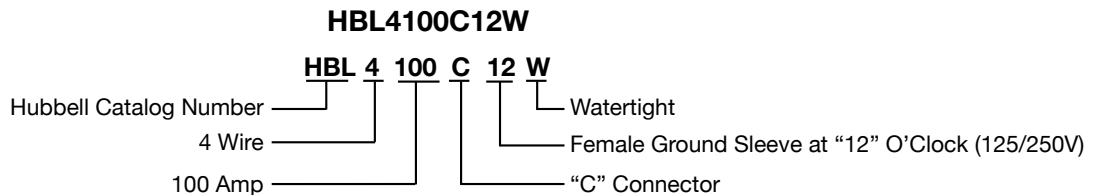
Hubbell Pin and Sleeve products are designed and manufactured to meet the International Standard IEC 60309-1 and IEC 60309-2. This device standard calls out a singly rated, non-interchangeable configuration for every voltage and type of service throughout the world. Pin and sleeve device housings are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

Voltage

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



Typical IEC Pin and Sleeve Catalog Number



Explanation

- | | | | | | |
|---|---|---|---|---|---|
| <p>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

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



Ease of Use

- 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



Full Line of Accessories

- Advantage series receptacles have same mounting pattern as our standard receptacles, for non-metallic and metallic back boxes (see page G-14)
- Full offering of liquidtight adapters (see page G-15)

Features and Benefits

Advantage™ Series Pin and Sleeve Switch-Rated

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.

Hubbell's Pin and Sleeve connections have always been safe – that hasn't changed. The Advantage™ series simply has more... Advantages.



The Hubbell Advantages



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 permanent identification



Continuous Ground Engagement

- Unswitched feed-through ground pin is first-to-make and last-to-break followed by switched neutral and phase contact(s)



Superior Water Ingress Protection

- UL witnessed IP69k and UL Type 4X and 12. Device is built to withstand wet and harsh environments



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



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





Rating		Pin and Sleeve Devices							Accessories		
Amps	Poles and Wires	Configuration Recep./ Conn.	Plug/ Inlet	AC Voltage	Connector	Receptacle	HP	Mating Plug**	IP67 Inlet	Back Boxes	Closure Caps
30	2P 3W			125V			2				
32	2P 3W			100-130V			2				
30	2P 3W			250V			5				
32	2P 3W			220-240V							
30	2P 3W			480V			10				
30	3P 4W			125/250V			2				
30/32	3P 4W			3Ø 250V			10				
30	3P 4W			3Ø 480V			20				
30	3P 4W			3Ø 600V			30				
30/32	3P 4W			380-415V			7.5				
32	3P 4W			380-440V			10				
30	4P 5W			3ØY 347/600V			30				
30	4P 5W			200/346- 240/415V			7.5				
32	4P 5W			220/380V 240/415V							
30	4P 5W			3ØY 277/480V			20				
30/32	4P 5W			3ØY 120/208V			10				
60	2P 3W			125V			3				
60	2P 3W			250V			7.5				
63	2P 3W			220-240V							
60	2P 3W			480V			15				
60	3P 4W			125/250V			3				
60/63	3P 4W			3Ø 250V			10				
60	3P 4W			3Ø 480V			30				
60	3P 4W			3Ø 600V			40				
60/63	3P 4W			380-415V			10				
60	4P 5W			3ØY 347/600V			40				
60/63	4P 5W			200/346- 240/415V			10				
60	4P 5W			3ØY 277/480V			30				
60/63	4P 5W			3ØY 120/208V			10				

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

**Mating plug 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.

Rating					Pin and Sleeve Devices					Accessories	
Amps	Poles and Wires	Configuration Recept./ Plug/ Inlet	AC Voltage	Color	Connector	Receptacle	HP	Mating Plug**	Inlet**	Back Boxes	Closure Caps
100	3P 4W		3Ø 600V	Black	HBLS4100C5W	HBLS4100R5W	50	HBLS4100P5W	HBLS4100B5W	BB100N	PC100
100	3P 4W		380-415V	Red	HBLS4100C6W*	HBLS4100R6W*	15	HBLS4100P6W	HBLS4100B6W	BB100N	PC100
100	3P 4W		3Ø 480V	Red	HBLS4100C7W	HBLS4100R7W	40	HBLS4100P7W	HBLS4100B7W	BB100N	PC100
100	3P 4W		3Ø 250V	Blue	HBLS4100C9W*	HBLS4100R9W*	15	HBLS4100P9W	HBLS4100B9W	BB100N	PC100
100	3P 4W		125/250V	Orange	HBLS4100C12W	HBLS4100R12W	10; 3	HBLS4100P12W	HBLS4100B12W	BB100N	PC100
100	4P 5W		3ØY 347/600V	Black	HBLS5100C5W	HBLS5100R5W	50	HBLS5100P5W	HBLS5100B5W	BB100N	PC100
100	4P 5W		200/346-240/415V	Red	HBLS5100C6W*	HBLS5100R6W*	15	HBLS5100P6W	HBLS5100B6W	BB100N	PC100
100	4P 5W		3ØY 277/480V	Red	HBLS5100C7W	HBLS5100R7W	40	HBLS5100P7W	HBLS5100B7W	BB100N	PC100
100	4P 5W		3ØY 120/208V	Blue	HBLS5100C9W*	HBLS5100R9W*	15	HBLS5100P9W	HBLS5100B9W	BB100N	PC100

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.

Optional Pilot Pin Available on All 60A and 100A Devices

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



Rating			Pin and Sleeve Devices			
Amps	Poles/Wires	AC Voltage	Connector with Pilot Sleeve	Receptacle with Pilot Sleeve	Plug with Pilot Pin	Inlet with Pilot Pin
60/63	3P 4W	3Ø 250V	HBLS460C9WP*	HBLS460R9WP*	HBLS460P9WP*	HBLS460B9WP*

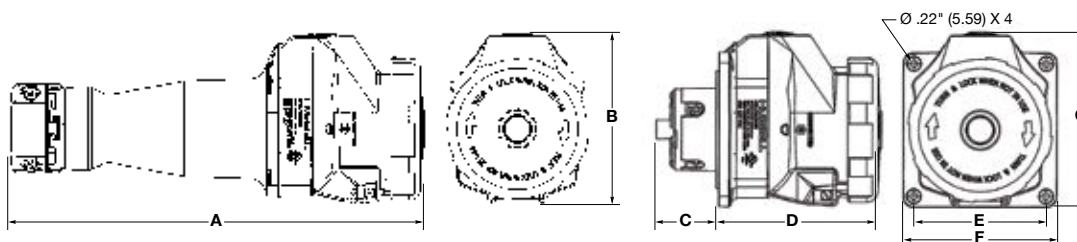
Note: *Just add a "P" suffix for Pilot pin for 60 amp devices.

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 Class J fuse. Also 125A RK1 fuse for 100A devices only
Endurance	Min 10,000 mating cycles
Flammability	V-0
Operating Temperature	Max Continuous +75°C; Min continuous -40°C
Environmental	Type 4X, 12 and IP69k
UV Resistance	All materials are UV stabilized

Dimensions

Description	Connector		C	D	Receptacle		G
	A	B			E	F	
30A	9.9" (251.5)	4.5" (114.3)	1.06" (27.2)	3.83" (97.3)	3.13" (79.4)	3.75" (95.2)	4.5" (114.3)
60A	12.22" (310.4)	5.17" (131.3)	1.85" (47.0)	4.77" (121.2)	3.88" (98.6)	4.52" (114.8)	5.09" (129.3)
100A	15.89" (403.6)	5.63" (142.9)	3.08" (78.2)	5.03" (127.6)	4.87" (123.7)	5.63" (142.9)	5.88" (149.3)



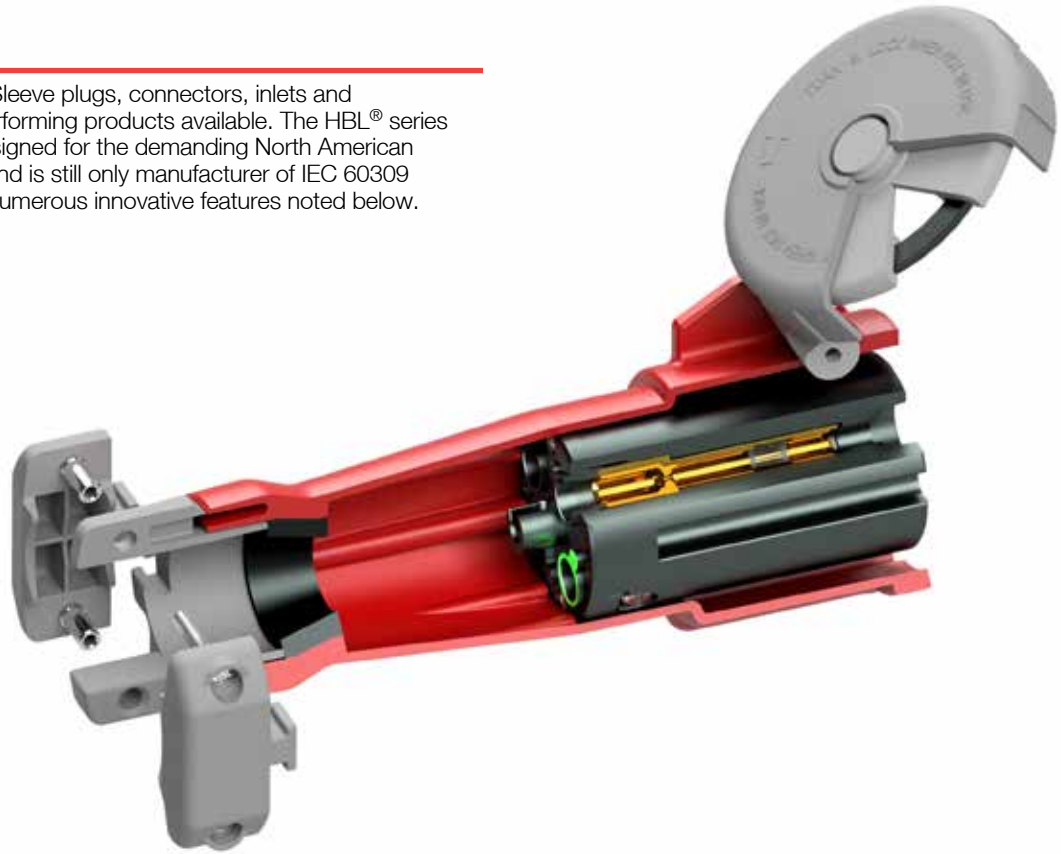
Dimensions in Inches (mm)

Features and Benefits

TYPE 4X, 12

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 numerous innovative features noted below.



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

- Aluminum or non-metallic 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

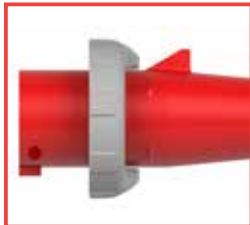
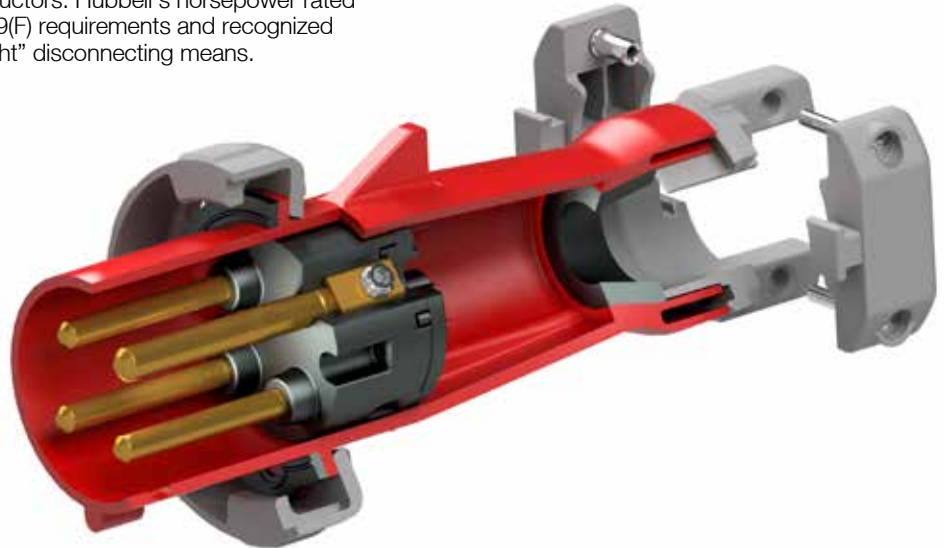
- (60/63 and 100/125 Amp) Recessed within the female sleeve, provides and maintains high unit pressure on mating pins to minimize temperature rise
- Broaches oxide film to achieve low resistance contact for cooler operation

Features and Benefits

TYPE 4X, 12

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 recognized 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./ Conn.	Plug/ Inlet	AC Voltage	Receptacle	Plug	Connector	Inlet	Back Boxes Non-Metallic	Back Boxes Metallic*	Closure Caps	Recept./ Conn.	Plug/ Inlet
16	2P 3W			100-130V									
20	2P 3W			125V									
16/20	2P 3W			220-240V 250V									
20	2P 3W			480V									
20	3P 4W			125/250V									
16/20	3P 4W			380-415V									
	3P 4W			3Ø 250V									
20	3P 4W			3Ø 480V									
20	3P 4W			3Ø 600V									
16/20	4P 5W			220/380V 240/415V									
	4P 5W			3ØY 120/208V									
20	4P 5W			3ØY 277/480V									
20	4P 5W			3ØY 347/600V									
30	2P 3W			125V									
30/32	2P 3W			220-240V 250V									
30	2P 3W			480V									
30	3P 4W			125/250V									
30/32	3P 4W			380-415V									
	3P 4W			3Ø 250V									
30	3P 4W			3Ø 480V									
30	3P 4W			3Ø 600V									
30/32	4P 5W			220/380V 240/415V									
	4P 5W			3ØY 120/208V									
30	4P 5W			3ØY 277/480V									
30	4P 5W			3ØY 347/600V									
32	2P 3W			100-130V									
32	3P 4W			380V 50Hz 440V 60Hz									

Note: See page G-14 and G-15 for back boxes and accessories, G-16 and G-17 for product dimensions, G-18 and G-19 for product specifications and HP ratings.

See page G-15 for closure caps, purchased separately. PC320, PC420, PC520, PC3430, PC530 are not UL or CSA.

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

†Consult factory.

See 20, 30, 60 & 100 amp offering for additional dual rated devices for use at either 16A or 20A, 30A or 32A, 60A or 63A and 100A or 125A.

Rating					Watertight Devices				Accessories		Replacement Interiors		
Amps	Poles and Wires	Configuration Recept./ Plug/ Conn.	Plug/ Inlet	AC Voltage	Receptacle	Plug	Connector	Inlet	Back Boxes Non-Metallic	Back Boxes Metallic	Closure Caps	Recept./ Conn.	Plug/ Inlet
60	2P 3W			125V									
60/63	2P 3W			220-240V 250V									
60	2P 3W			480V									
60	3P 4W			125/250V									
60/63	3P 4W			380-415V									
	3P 4W			3Ø 250V									
60	3P 4W			3Ø 480V									
60	3P 4W			3Ø 600V									
60/63	4P 5W			220/380V 240/415V									
	4P 5W			3Ø 120/208V									
60	4P 5W			3Ø 277/480V									
60	4P 5W			3Ø 347/600V									
100	2P 3W			125V									
100	2P 3W			250V									
100	2P 3W			480V									
100	3P 4W			125/250V									
100/ 125	3P 4W			380-415V									
	3P 4W			3Ø 250V									
100	3P 4W			3Ø 480V									
100	3P 4W			3Ø 600V									
100/ 125	4P 5W			220/380V 240/415V									
	4P 5W			3Ø 120/208V									
100	4P 5W			3Ø 277/480V									
100	4P 5W			3Ø 347/600V									

Note: See page G-14 and G-15 for back boxes and accessories, G-16 and G-17 for product dimensions, G-18 and G-19 for product specifications and HP ratings.

For 60/63A and 100/125A application requiring a pilot pin add a "P" suffix to end of standard catalog number.

See page G-15 for closure caps, purchased separately. PC60 and PC100 are not UL or CSA.

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

**Short housing plug HBL5100P9WSH. IP22 suitability.

†Consult factory.

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 AA-19 for corrosion resistant cord sets.

Pin and Sleeve Devices/Mechanical Interlocks

Data Center DC Rated Pin and Sleeve Devices

TYPE 4X, 12



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 PBT housing is heavy duty for safety and protecting the internal components.



Rating					Watertight Devices			
Amps	Poles And Wires	Configuration Recep./ Conn.	Plug	DC Voltage	Receptacle	Plug	Connector	
30	2P 3W			550V				
					HBL330R8WDC	HBL330P8V0DC	HBL330C8V0DC	
60	2P 3W			550V				
					HBL360R8WDC*	HBL360P8V0DC	HBL360C8V0DC	
100	2P 3W			550V				
					HBL3100R8WDC	HBL3100P8V0DC	HBL3100C8V0DC	
	4P 5W			400V				
					HBL5100R8WDC	HBL5100P8V0DC	HBL5100C8V0DC	

Note: *Inlet available - HBL360B8WDC.

Dual Certified Pin and Sleeve Devices

TYPE 4X, 12



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 UL Classified 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 PBT housing and internal components.

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



BB60N



BB301W



BB601WSS



FW6010055



FT202W



FW60100



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	Stainless Steel	Cast Iron
Back box for 16, 20, 30 and 32A devices.	¾"	BB201WSS	BB201W
	1"	BB301WSS	BB301W
Back box for 60 and 63A devices.	1¼"	BB601WSS	BB601W
	1½"	–	BB602W
Back box for 100 and 125A devices.	1½"	BB1001WSS	BB1001W
	2"	BB1002WSS	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 4 1/16 inch square for non-watertight applications.

Pin and Sleeve Devices/Mechanical Interlocks

Accessories

Closure Caps

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

Description	Catalog Number
Fits all 16 and 20A, 3 wire plugs and inlets.	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. Exact replacement cover assemblies required to maintain proper water ingress. They are not reverse compatible. Replacement covers are not interchangeable. Kit contains cover, arm assembly and installation tool.

Description	IP67	IP69k/4X
	Catalog Number	Catalog Number
Fits all 16 and 20A, 3 wire watertight female devices.	CA320	HBLCA320
Fits all 16 and 20A, 4 wire watertight female devices.	CA420	HBLCA420
Fits all 16 and 20A, 5 wire watertight female devices.	CA520	HBLCA520
Fits all 30 and 32A, 3 and 4 wire watertight female devices.	CA3430	HBLCA3430
Fits all 30 and 32A, 5 wire watertight female devices.	CA530	HBLCA530
Fits all 60 and 63A watertight female devices.	CA60	HBLCA60
Fits all 100 and 125A watertight female devices.	CA100	HBLCA100



CA60



HBLCA60

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
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*

Note: *Locking Ring only for plugs and inlets.

†Consult factory.



CC3430



LR3430



SAB34



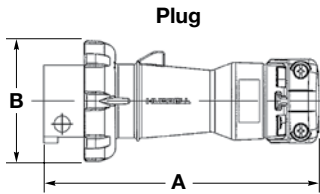
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Liquidtight Adapters

Machined aluminum or non-metallic 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.

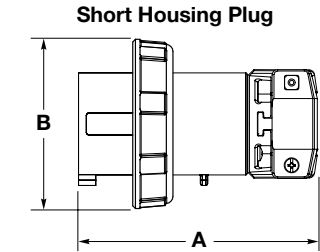
Rating of Hubbell Pin and Sleeve Device	Liquidtight Conduit Size	Liquidtight Adapters		Optional Kellems Liquidtight Conduit Grip
		Aluminum	Non-Metallic	
16 and 20 Amp 3 and 4 Wire	½" NPT	SAA12	—	074093402
	¾" NPT	SAA34	—	074093403
16 and 20 Amp 5 wire and 30 and 32 Amp 3 and 4 wire	½" NPT	SAB12	—	074093402
	¾" NPT	SAB34	—	074093403
	1" NPT	SAB100	—	074093404
30 and 32 Amp 5 wire and 60 and 63 Amp (all)	½" NPT	SAC12	SAC12NM	074093402
	¾" NPT	SAC34	SAC34NM	074093403
	1" NPT	SAC100	SAC100NM	074093404
	1¼" NPT	SAC125	—	074093405
100 and 125 Amp (all)	1¼" NPT	SAD125	—	074093405
	1½" NPT	SAD150	—	074093406

Pin and Sleeve Devices/Mechanical Interlocks



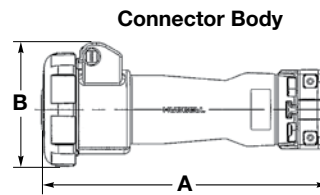
Plug Dimensions

Type	A	B	Cord Grip Range
HBL320P	6.61" (167.8)	2.87" (73.0)	.330"-1.830" (8.4-21.1)
HBL420P	7.00" (177.8)	3.19" (81.0)	.330"-1.830" (8.4-21.1)
HBL520P	7.65" (194.3)	3.50" (89.0)	.330"-1.830" (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)



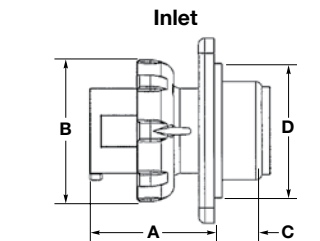
Short Housing Plug Dimensions

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



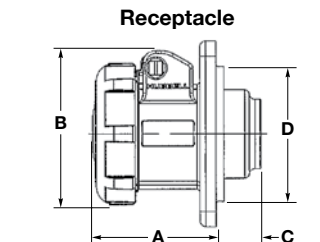
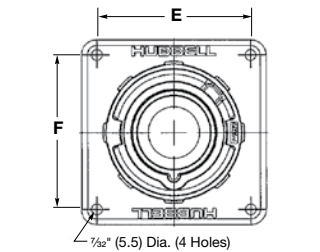
Connector Body Dimensions

Type	A	B	Cord Grip Range
HBL320C	7.21 (183.1)	3.10 (78.9)	.330"-1.830" (8.4-21.1)
HBL420C	7.57 (192.3)	3.43 (87.2)	.330"-1.830" (8.4-21.1)
HBL520C	8.24 (209.2)	3.71 (94.3)	.330"-1.830" (8.4-21.1)
HBL330C	8.24 (209.2)	3.71 (94.3)	.375"-1.250" (9.5-31.8)
HBL430C	8.69 (220.6)	3.74 (95.0)	.375"-1.250" (9.5-31.8)
HBL530C	9.33 (237.0)	4.02 (102.1)	.500"-1.450" (12.7-36.8)
HBL360C, HBL460C, HBL560C	10.75 (272.9)	4.39 (111.5)	.500"-1.450" (12.7-36.8)
HBL3100C, HBL4100C, M4100C, HBL5100C, M5100C	13.14 (333.8)	5.06 (128.5)	1.065"-1.940" (27.1-49.3)



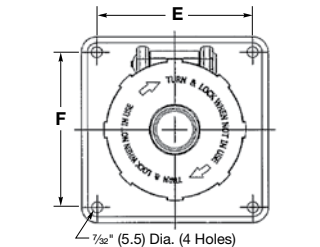
Inlet Dimensions

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	2.47 (62.8)	3.10 (78.9)	.91 (23.0)	2.71 (68.9)	3.75 (95.3)	3.13 (79.4)
HBL420R	2.46 (62.4)	3.43 (87.2)	.91 (23.0)	2.71 (68.9)	3.75 (95.3)	3.13 (79.4)
HBL520R	2.50 (63.4)	3.71 (94.3)	.90 (22.9)	2.71 (68.9)	3.75 (95.3)	3.12 (79.3)
HBL330R	2.74 (69.7)	3.74 (95.0)	1.04 (26.5)	2.71 (68.9)	3.75 (95.3) SQ	4X 3.13 (79.4) SQ
HBL430R	2.74 (69.7)	3.74 (95.0)	1.04 (26.5)	2.71 (68.9)	3.75 (95.3) SQ	4X 3.13 (79.4) SQ
HBL530R	2.75 (69.7)	4.02 (102.1)	1.04 (26.5)	2.83 (71.9)	3.75 (95.3) SQ	3.13 (79.4) SQ
HBL360R, HBL460R, HBL560R	3.67 (93.2)	4.39 (111.5)	1.57 (40.0)	3.45 (87.7)	4.50 (114.3) SQ	3.88 (98.4) SQ
HBL3100R, HBL4100R, M4100R, HBL5100R, M5100R	3.78 (96.1)	5.07 (128.7)	2.30 (58.5)	3.93 (99.8)	4.87 (123.7) SQ	5.50 (139.7) SQ



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

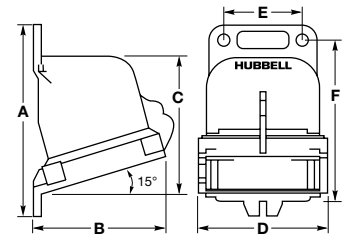
Dimensions in Inches (mm)

Pin and Sleeve Devices/Mechanical Interlocks

Non-Metallic 15° Angle Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Back box for 16, 20, 30 & 32A devices.	1"	5.67" (144.0)	4.44" (112.8)	4.05" (102.9)	3.91" (99.3)	2.35" (59.7)	4.92" (125.0)	30.00"	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

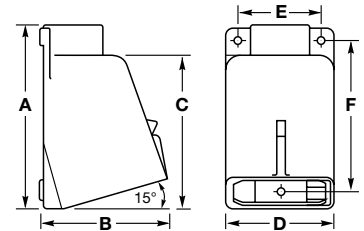
Note: *Hub is not included; order one of the following *Raco*® part numbers: 1 inch = 1704, 1¼ inch = 1705, 1½ inch = 1706. These boxes meet IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.



Non-Metallic Angle Box

Metallic 15° Angle Back Box

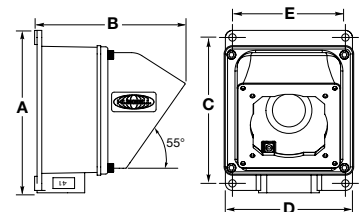
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Back box for 16, 20, 30 & 32A devices.	¾"	5.12" (130.2)	4.00" (101.6)	4.19" (106.4)	3.75" (95.3)	3.00" (76.2)	4.00" (101.6)	30.00"	BB201W
Back box for 16, 20, 30 & 32A devices.	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

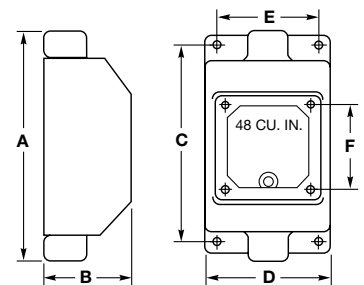
Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Cubic Inch Capacity	Catalog Number
Feed-thru box and angle adapter for 16, 20, 30 & 32A devices.	1"	6.80" (172.4)	6.60" (167.0)	5.63" (142.9)	4.50" (114.3)	3.74" (95.0)	–	42.27"	AB203055
Angle adapter for 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

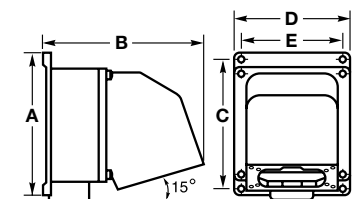


Metallic Feed-Thru Box

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

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.



Metallic Four-Way Angle Box

Dimensions in Inches (mm)

Pin and Sleeve Devices/Mechanical Interlocks

Watertight Materials

Part	Material
Plug	
Housing	PBT
Locking Ring	PBT
Sealing Gasket	Solid Neoprene
Cord Clamp	PBT
Gland Cap	PBT
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)

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	PBT
Cord Clamps	PBT
Glands	Solid Neoprene
Cover Arms	PBT
Arm Springs	Stainless Steel (17-7 type)
Covers	PBT
Cover Screw	Nickel-plated brass
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)

Inlet	
Housing	PBT
Locking Ring	PBT
Mounting Flange	PBT
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

Receptacle	
Housing	PBT
Mounting Flange	PBT
Arm Spring	Stainless Steel (17-7 type)
Cover Arm	PBT
Cover	PBT
Cover Screw	Nickel-plated brass
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

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

Pin and Sleeve Devices/Mechanical Interlocks

Performance

Electrical

Dielectric Withstand Voltage	3000V AC.
Max. Working Voltage	600V RMS (i.e., minimum creepage distance 10 millimeters, minimum clearance 8 millimeters, per IEC 60309-1 for devices rated over 500V).
Current Interrupting	Certified for current interrupting at full rated current (Except DC rated devices).
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.
Endurance	5,000 connect and disconnect cycles with load for 16A and 20A, 1,000 cycles with load and 1,000 cycles without load for 30A, 32A, 60A and 63A, and 250 cycles with load and 250 cycles without load for 100A and 125A.

Mechanical

Impact Resistance	Per CSA C22.2 No. 182.1 / UL1682.
Cord Grip Cable Retention	Per CSA C22.2 No. 182.1 / UL1682.
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49 and the harmonized <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with North American and IEC conventions.
Product Identification	Identification and ratings are a permanent part of the device housing.

Environmental

Moisture Resistance	Watertight per IEC 60309-1.
Ingress Protection	TYPE 4X, 12 and IP69K.
Flammability	V.0.
Operating Temperatures	Maximum Continuous 75°C; Minimum - 40°C without impact.

Materials

Housings	PBT.
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 Hubbell IEC Pin and Sleeve Devices*

Single Phase

Amps	Wire Count	Voltage	Clock	Catalog Number	HP Rating
20	3	125V	4	HBL320x4W	1
20	3	250V	6	HBL320x6W	2
20	3	480V	7	HBL320x7W	5
20	4	125/250 (208L-L)	12	HBL420x12W	2
20	4	125/250 (250L-L)	12	HBL420x12W	2
20	4	125/250 (125L-N)	12	HBL420x12W	1
30	3	125V	4	HBL330x4W	2
30	3	250V	6	HBL330x6W	3
30	3	480V	7	HBL330x7W	7.5
30	3	550VDC	8	HBL330X8	N/A
30	4	125/250 (208L-L)	12	HBL430x12W	3
30	4	125/250 (250L-L)	12	HBL430x12W	3
30	4	125/250 (125L-N)	12	HBL430x12W	2
60	3	125V	4	HBL360x4W	2
60	3	250V	6	HBL360x6W	3
60	3	480V	7	HBL360x7W	7.5
60	3	250VDC	3	HBL360x3W	N/A
60	3	550VDC	8	HBL360x8W	N/A
60	4	125/250 (208L-L)	12	HBL460x12W	3
60	4	125/250 (250L-L)	12	HBL460x12W	3
60	4	125/250 (125L-N)	12	HBL460x12W	2
100	3	125V	4	HBL3100x4W	5
100	3	250V	6	HBL3100x6W	15
100	3	480V	7	HBL3100x7W	30
100	3	250VDC	3	HBL3100x3W	N/A
100	3	550VDC	8	HBL3100x8W	N/A
100	4	125/250 (208L-L)	12	HBL4100x12W	10
100	4	125/250 (250L-L)	12	HBL4100x12W	15
100	4	125/250 (125L-N)	12	HBL4100x12W	5

3-Phase

Amps	Wire Count	Voltage	Clock	Catalog Number	HP Rating
20	4	3Ø 250V	9	HBL420x9W	5
20	4	3Ø 480V	7	HBL420x7W	10
20	4	3Ø 600V	5	HBL420x5W	10
20	4	3Ø 380-415V	6	HBL420x6W	7.5
20	5	3ØY 120/208V	9	HBL520x9W	3
20	5	3ØY 277/480V	7	HBL520x7W	10
20	5	3ØY 347/600V	5	HBL520x5W	10
20	5	3Ø 240/415V	6	HBL520x6W	5
30	4	3Ø 250V	9	HBL430x9W	7.5
30	4	3Ø 480V	7	HBL430x7W	15
30	4	3Ø 600V	5	HBL430x5W	20
30	5	3ØY 120/208V	9	HBL530x9W	5
30	5	3ØY 277/480V	7	HBL530x7W	15
30	5	3ØY 347/600V	5	HBL530x5W	20
30	4	3Ø 380/415V	6	HBL430x6W	10
30	5	3Ø 200/346-240/415	6	HBL530x6W	10
60	4	3Ø 250V	9	HBL460x9W	7.5
60	4	3Ø 480V	7	HBL460x7W	20
60	4	3Ø 600V	5	HBL460x5W	25
60	4	3Ø 380-415VAC	6	HBL460x6W	10
60	5	3ØY 120/208V	9	HBL560x9W	7.5
60	5	3ØY 277/480V	7	HBL560x7W	20
60	5	3ØY 347/600V	5	HBL560x5W	25
60	5	3Ø 200/346-240/415	6	HBL560x6W	10
100	4	3Ø 250V	9	HBL4100x9W	15
100	4	3Ø 480V	7	HBL4100x7W	40
100	4	3Ø 600V	5	HBL4100x5W	50
100	4	3Ø 380-415V	6	HBL4100x6W	30
100	5	3ØY 200/346-240/415V	6	HBL5100x6W	30
100	5	400VDC	8	HBL5100x8W	N/A
100	5	3ØY 120/208V	9	HBL5100x9W	15
100	5	3ØY 277/480V	7	HBL5100x7W	40
100	5	3ØY 347/600V	5	HBL5100x5W	50

Note: *Horsepower Ratings are NOT standardized amongst different Pin and Sleeve manufacturers.

Pin and Sleeve Devices/Mechanical Interlocks

Features and Benefits

IP67
SUITABILITY

Unfused Circuit-Lock® Pin and Sleeve Mechanical Interlocks

The National Electrical Code (NEC®) requires a separate disconnect means within sight of all motor loads. The NEC requires the disconnecting means in a motor-circuit be listed as “Suitable as Motor Disconnect” if the motor is rated greater than 2 HP.

Hubbell’s revolutionary Circuit-Lock interlock incorporates the disconnect switch and receptacle in one compact, non-metallic and economical unit. Removing the plug and locking it out provides a visual means of verifying equipment has been disconnected. All Circuit-Lock mechanical interlocks can be locked out as a method of compliance with the OSHA Lockout/Tagout regulation.

The switch cannot be turned ON until the plug is completely engaged, and the plug cannot be removed until the switch is turned OFF. At the same time, it eliminates the possibility of making or breaking the circuit under load or making a casual or “lazy” connection. The non-metallic enclosure can be connected to the metallic conduit and not interfere with the ground continuity.

In addition, these horsepower rated units are durable, watertight and easy to install. And they are compatible with IEC 60309-2 plugs. These Circuit-Lock units are available in 20, 30, 60 and 100A models, and in 3, 4 and 5 wire configurations that are designed to the IEC 60309-1 and 60309-2 standards.

Hubbell’s Circuit-Lock Mechanical Interlocks are also available in “Reverse Service” versions. These units incorporate the disconnect switch and reverse service receptacle (inlet) in one compact, non-metallic and economical unit. These units are available in 30, 60 and 100A models, 4 wire configurations.



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)



Liftcover

- Replaceable spring-loaded liftcover with gasket for a watertight seal
- Pre-wired IEC Pin and Sleeve receptacle
- Reverse service has dependable solid brass pins for longer life and reliable electrical contact



Identification

- Color coded rating pad and receptacle mount to signify voltage



Installation

- Comes with brass inserts and stainless steel screws for higher torque and better sealing
- Three molded-in conduit drill points are located on top, bottom and back surface of enclosure
- Adjustable mounting feet are ductile to allow mounting on irregular surfaces

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

Rating					Unfused Circuit-Lock® Devices		Reverse Service		
Amps	Poles and Wires	Configuration Recep.	Plug	AC Voltage	Mechanical Interlock	Mating Plug	Mechanical Interlock	Mating Plug	
20	3P 4W			120/240V		HBL420MI12W	HBL420P12W	—	—
	3P 4W			3Ø 240V		HBL420MI9W	HBL420P9W	—	—
	3P 4W			3Ø 480V		HBL420MI7W	HBL420P7W	—	—
	3P 4W			3Ø 600V		HBL420MI5W	HBL420P5W	—	—
30	2P 3W			120V		HBL330MI4W	HBL330P4W	—	—
	2P 3W			240V		HBL330MI6W	HBL330P6W	—	—
	2P 3W			480V		HBL330MI7W	HBL330P7W	—	—
	3P 4W			120/240V		HBL430MI12W	HBL430P12W	—	—
	3P 4W			3Ø 240V		HBL430MI9W	HBL430P9W	HBL430MI9WR	HBL430P9WR
	3P 4W			3Ø 480V		HBL430MI7W	HBL430P7W	HBL430MI7WR	HBL430P7WR
	3P 4W			3Ø 600V		HBL430MI5W	HBL430P5W	HBL430MI5WR	HBL430P5WR
	4P 5W			3ØY 120/208V		HBL530MI9W	HBL530P9W	—	—
	4P 5W			3ØY 277/480V		HBL530MI7W	HBL530P7W	—	—
	4P 5W			3ØY 347/600V		HBL530MI5W	HBL530P5W	—	—
32	3P 4W			380V 50HZ-440V 60HZ		HBL432MI3W	HBL432P3W	—	—
60	2P 3W			120V		HBL360MI4W	HBL360P4W	—	—
	2P 3W			240V		HBL360MI6W	HBL360P6W	—	—
	2P 3W			480V		HBL360MI7W	HBL360P7W	—	—
	3P 4W			120/240V		HBL460MI12W	HBL460P12W	HBL460MI12WR	HBL460P12WR
	3P 4W			3Ø 240V		HBL460MI9W	HBL460P9W	HBL460MI9WR	HBL460P9WR
	3P 4W			3Ø 480V		HBL460MI7W	HBL460P7W	HBL460MI7WR	HBL460P7WR
	3P 4W			3Ø 600V		HBL460MI5W	HBL460P5W	HBL460MI5WR	HBL460P5WR
	4P 5W			3ØY 120/208V		HBL560MI9W	HBL560P9W	—	—
	4P 5W			3ØY 277/480V		HBL560MI7W	HBL560P7W	—	—
	4P 5W			3ØY 347/600V		HBL560MI5W	HBL560P5W	—	—
100	2P 3W			240V		HBL3100MI6W	HBL3100P6W	—	—
	3P 4W			120/240V		HBL4100MI12W	HBL4100P12W	HBL4100MI12WR	HBL4100P12WR
	3P 4W			3Ø 240V		HBL4100MI9W	HBL4100P9W	HBL4100MI9WR	HBL4100P9WR
	3P 4W			3Ø 480V		HBL4100MI7W	HBL4100P7W	HBL4100MI7WR	HBL4100P7WR
	3P 4W			3Ø 600V		HBL4100MI5W	HBL4100P5W	HBL4100MI5WR	HBL4100P5WR
	4P 5W			3ØY 120/208V		HBL5100MI9W	HBL5100P9W	—	—

Note: 20, 30 and 32A – 1 inch NPT hub supplied; 60 and 100A – 1/4 inch hub supplied.

Pin and Sleeve Devices/Mechanical Interlocks



HBLAC1



HBLAC2



HBL30RGB

HBL30RNB



MICPK30



CA3430MI



HBL30MIRS



HBLRFT2

Dimensions in Inches (mm)

Auxiliary Contacts for 20, 30, 32, 60 and 100A Switch, NEMA A600 Pilot Duty

Description	Catalog Number
"Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts.	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*

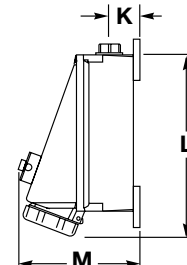
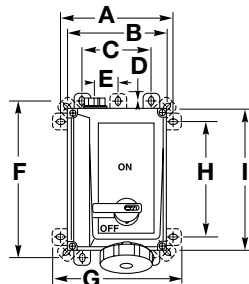
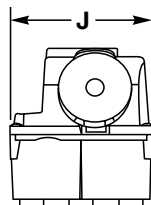
Dimensions

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).



Pin and Sleeve Devices/Mechanical Interlocks

Typical Specifications

Manufacturer's Identification	Hubbell HBL430MI7W
Description	Circuit-Lock® Pin and Sleeve Mechanical Interlock
Electrical Type	3 Pole + Earth
Rating	30A, 480V AC, 3 Phase
Configuration	IEC 60309-2, UL1686 C2, Clock position 7
Enclosure Type	Indoor and 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	PBT	Top	PBT
Handle	PBT	Conduit Hub	Zinc
Enclosure Gasket	Neoprene	Shaft	PBT
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. Mechanical 10,000 cycles, electrical 6,000 cycles.

Operations

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	Indoor and Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling Dirt and Noncorrosive Liquids).
Ingress Protection	IP69K 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

Pin and Sleeve Devices/Mechanical Interlocks

Features and Benefits

IP66
SUITABILITY

Fused Circuit-Lock® Pin and Sleeve Mechanical Interlocks

Hubbell Circuit-Lock® Pin and Sleeve Mechanical Interlocks are a revolutionary design that incorporates a disconnect switch and pin and sleeve receptacle in a compact non-metallic unit. These devices offer maximum safety by preventing users from mating or breaking a circuit under load—Hubbell's interlock mechanism detects the presence of a plug and prevents it from being removed when the switch is in the "ON" position.

It features a high visibility red handle that can be locked in the OFF position to meet OSHA lockout/tagout regulations. The enclosure door can be locked to prevent unauthorized access. The rugged, corrosion-resistant Type 4X PBT 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.



Housing Design

- Non-metallic enclosure meets UL 50E Type 4X (watertight), 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged thermoplastic PBT 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

IP66
SUITABILITY

Enclosure Type 4X, 12

Rating					Fused Circuit-Lock® Devices		
Amps	Poles and Wires	Configuration Recep./ 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
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

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.



ACFSNO

Replacement Switches

Description	Gray Style Switch Catalog Number
For 30A fused switches.	HBL30MIFRS
For 60A fused switches. Gray Style switch will retro fit Black Style switch.	HBL60MIFRS



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.

Pin and Sleeve Devices/Mechanical Interlocks

Specifications

Typical Specifications

Manufacturer's Identification	Hubbell HBL460MIF7W
Description	Fused Circuit-Lock Pin and Sleeve Mechanical Interlock
Electrical Type	3 Pole + Earth
Rating	60A, 480V AC, 3 Phase
Configuration	IEC 60309-2, UL1686C2, Clock Position 7
Enclosure Type	Indoor and Outdoor - 4X (Watertight, Washdown) Indoor - 12 (Dust-tight, Falling dirt)
Certification	UL Listed for US and Canada

Materials

Part	Material
Base and Top	PBT
Handle	PBT
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	Indoor and 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.

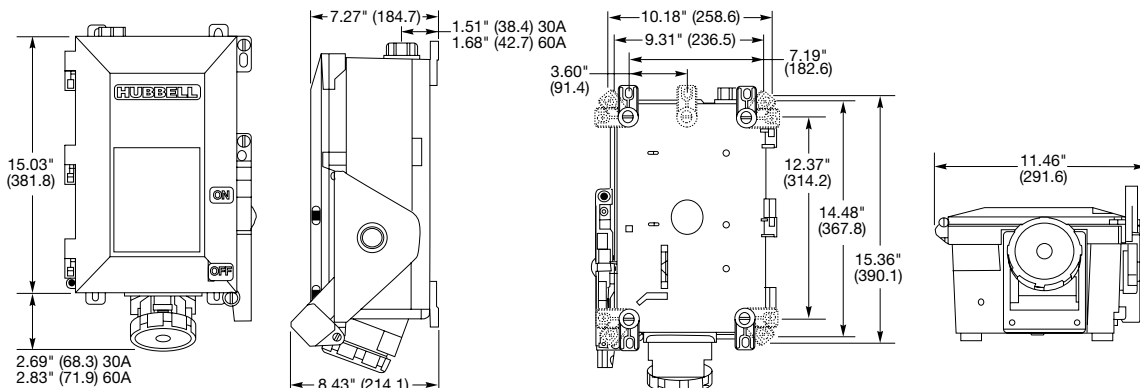
Horsepower Ratings

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
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)

Features and Benefits

20 and 30 Amps Low Profile

Hubbell's Low Profile Pin and Sleeve devices were designed to save space without sacrificing pin and sleeve strength, safety and convenience. The small compact design of these plugs is ideal for indoor applications where space is at a premium.

These devices are fully interchangeable with standard IEC 60309 pin and sleeve. They are a perfect fit for tight situations frequently found in hotels, restaurants, convention centers, warehouses, assembly benches and offices.



Housing Design

- Nylon construction, both interior and exterior are made of tough, durable nylon
- Shrouded, 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
- Shroud protects personnel from exposure to arcing



Brass Box Terminal

- Permits high clamping pressure on conductors without damaging wire strands for best electrical conductivity
- Solid one-piece pins construction, for long life, reliable electrical contact and maximum conductivity



Identification

- Color coding for quick, easy visual identification of mating devices
- Ratings and certification are molded into the nylon housing for easy identification and reordering



Split Sleeves

- Self-adjusting stainless steel springs assure constant contact pressure (20A and 30A). On 60A devices, Beryllium copper insert with multiple contact points assures easy insertion and a tight fit
- Stainless steel terminal screws resist rust and corrosion

Low Profile Devices

Rating						Devices		Cord Diameter	
Amps	Poles and Wires	Configuration Recep./ Plug/ Conn. Inlet	AC Voltage	Plug	Receptacle	Min. Inches (mm)	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		 With Cover:	.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 Temperature Rise	Certified for current interruption at full rated current. Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%.

Endurance	Up to 5,000 connect and disconnect cycles at full rated current and voltage.
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Mechanical

Impact Resistance	Per CSA C22.2 No. 182.1 / UL1682
Cord Grip Cable Retention	Per CSA C22.2 No. 182.1 / UL1682
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL standard 62, CSA C22.2 No. 49 and the <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with North American convention.
Product Identification	Ratings are a permanent part of the device housing.

Environmental

Flammability	HB or better per UL94 or CSA C22.2 No. 0.17
Ingress Protection	IP22 Suitability
Operating Temperatures	Maximum Continuous 75° C; Minimum -40°C without impact

Application Guide

Agriculture	Indoor location and maintenance.
Chemical Processing	Indoor location and maintenance.
Construction	Indoors for added safety and abuse resistance.
Entertainment	Indoor location and maintenance.
Food Service	Food service areas where aesthetics and space are concerns.
Light Manufacturing	Indoor locations and maintenance.
Manufacturing	Light assembly areas, stamping operations and maintenance areas.
Military	Warehouse and maintenance areas.

Materials

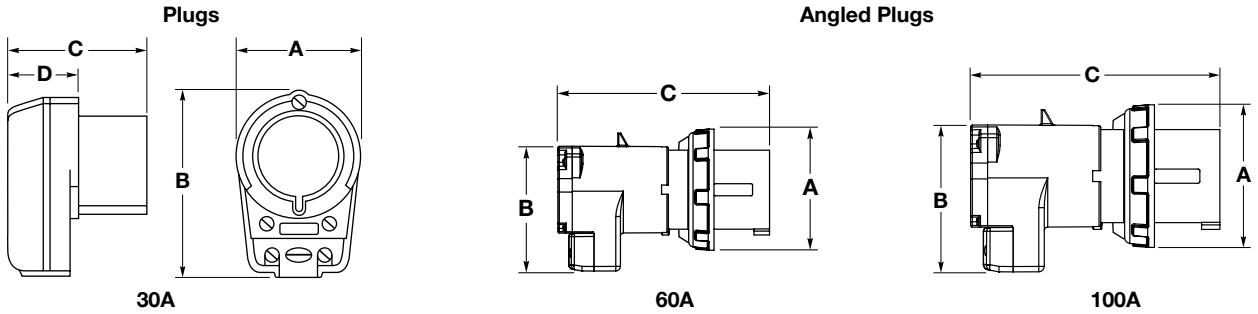
Plug	Material
Case	PBT
Shroud	PBT
Pin Carrier 20 & 30A	PBT
Pin and Carrier 60A	High-Impact Thermoset
Pins	Brass CDA#360
Assembly Screws	Stainless Steel (300 series)
Terminal Screws	Stainless Steel (300 series)
Receptacle	
Body	PBT
Sleeve Carrier 20 & 30A	PBT
Sleeve Carrier 60A	High-Impact Thermoset
Sleeves	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	PBT
Panel Mount Trim Plate	Stainless Steel (300 series)

Note: See page G-29 for product dimensions.

Pin and Sleeve Devices/Mechanical Interlocks

Plug Dimensions

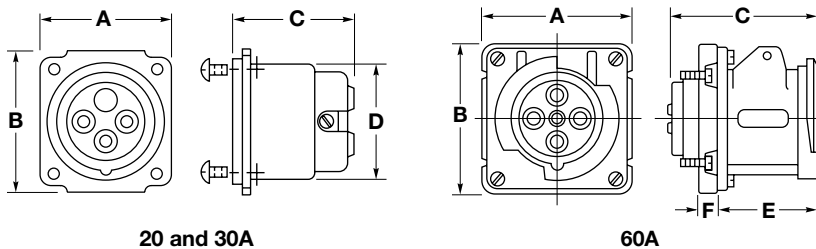
Type	A	B	C	D	Cord Range Diameter
L430P12	2.97" (75.4)	4.18" (106.2)	3.50" (88.9)	1.71" (43.4)	.390"-.775" (9.9-19.7)
A460P9	3.38" (85.9)	4.25" (108.0)	7.00" (177.8)	–	.75"-1.25" (19.1- 31.8)
A5100P9	4.92" (125.00)	5.07" (128.81)	8.60" (218.35)	–	1.34"-1.50" (34.0- 38.1)



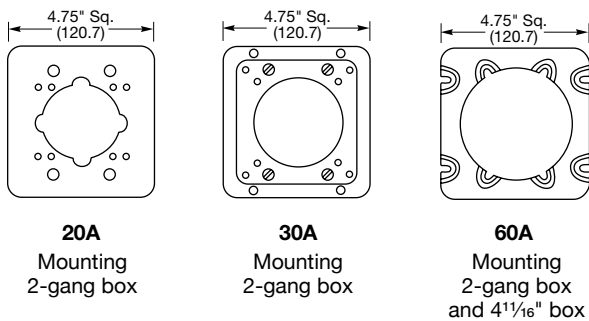
Wall Mount Receptacle Dimensions

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)

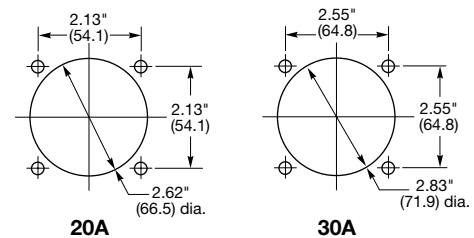
Wall Mount Receptacles



Adapter Plate (Included with "L" and "A" series receptacles)



Panel Cutout



Dimensions in Inches (mm)

Pin and Sleeve Devices/Mechanical Interlocks

IEC Pin and Sleeve Terminal Identification – Rear View

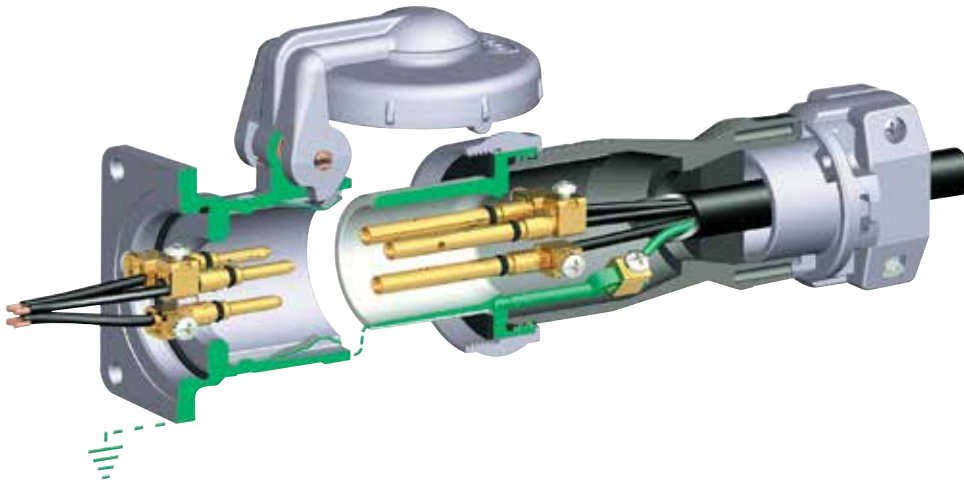
Description	Rating		Terminal Marking Pattern*			
	Domestic	International	Receptacle and Connector		Plug and Inlet	
			Domestic	International	Domestic	International
3 Wire	125V AC 277V AC	100-130V				
3 Wire	250V AC 480V AC 600V AC	200-250V 380-415V AC				
4 Wire	125/250V AC 1ØY 120/208V	—				
4 Wire	(3Ø Δ) 250V AC 480V AC 600V AC	380-415V AC				
5 Wire	(3ØY) 120/208V AC 277/480V AC 347/600V AC	220/380V 50Hz 250/440V 60Hz 200/346V to 240/415V 50 and 60Hz				

Note: *Location of grounding contact position will change as clock positions assigned to specific voltages change.
 ★Pilot contacts supplied on 4 and 5 wire, 63 and 125 Amp international rated devices.

Pin and Sleeve Devices/Mechanical Interlocks

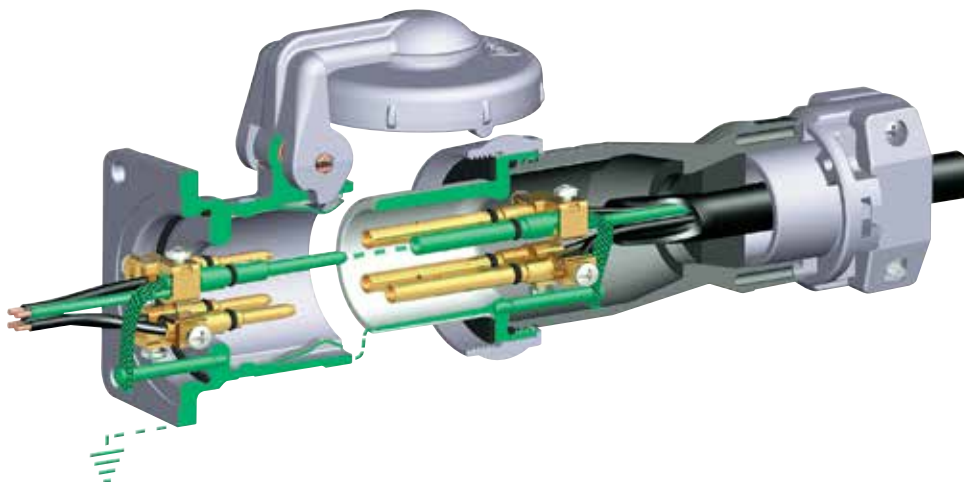
Ground Path

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

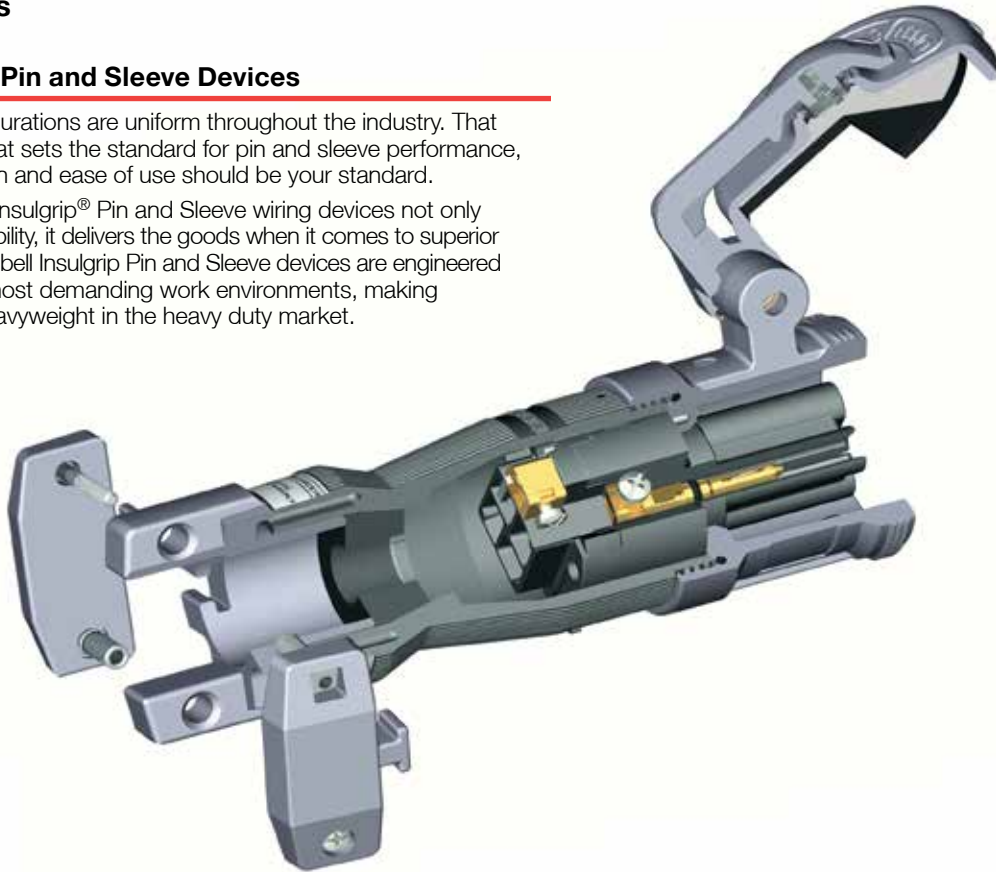
Style I			Style II		
New	Old	No. of Contacts	New	Old	No. of Contacts
2P 3W	2W 2P	2	2P 3W	2W 3P	3
3P 4W	3W 3P	3	3P 4W	3W 4P	4
4P 5W	4W 4P	4			

Features and Benefits

UL 1686 C1 Insulgrip® Pin and Sleeve Devices

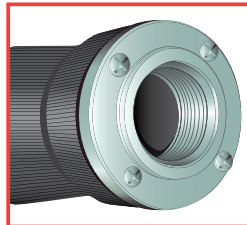
UL standard 1686-C1 configurations are uniform throughout the industry. That means Hubbell—the name that sets the standard for pin and sleeve performance, reliability, durability, innovation and ease of use should be your standard.

Hubbell's 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

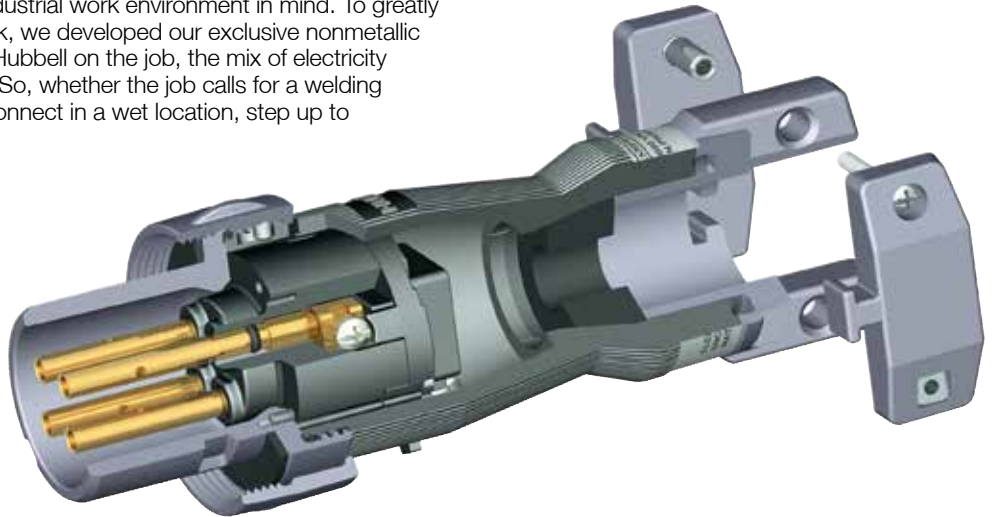
- Interlocking box terminals ensure that terminal screws remain secure and cannot loosen
- The floating box is designed to obtain high-torque values without damaging stranded conductors

Features and Benefits

UL 1686 C1 Insulgrip® Pin and Sleeve Devices

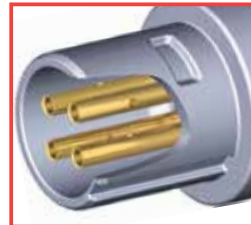
Metallic where you want it, non-metallic where you need it. Different from traditional all-metallic devices, Hubbell Pin and Sleeve wiring devices are designed to provide metallic shrouding where you want it and a non-metallic housing where you need it.

What's more, Hubbell's 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
- Shroud 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



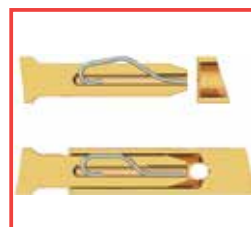
Thermoset Polyester Contact Carrier

- 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









Pin and Sleeve Devices/Mechanical Interlocks









30, 60, 100 and 200 Amp, 600/250 Volt AC/DC, 50-400 Hertz

TYPE 4X**

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.
 See page AA-19 for corrosion resistant cord sets.









Pin and Sleeve Devices/Mechanical Interlocks








30, 60, 100 and 200 Amp, 600/250 Volt AC/DC, 50-400 Hertz

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.

See page AA-19 for corrosion resistant cord sets.

Pin and Sleeve Devices/Mechanical Interlocks



MB30



MB304W

MB601003W



MB601006W



MB2003W



CC3430



ILR1



SAB34



074093403

Insulgrip Pin and Sleeve Metallic Back Boxes

Hubbell manufactures an extensive line of back boxes for use with UL 1686 Pin and Sleeve devices. Each back box is designed to give the user the maximum amount of wiring room while achieving grounding to metallic conduit.

Metallic 30° Angle Back Box*

Description	Amps	NPT Hub Size	Catalog Number
Back box for 30A devices.	30	3/4"	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

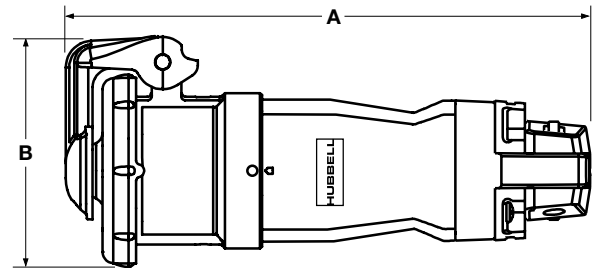
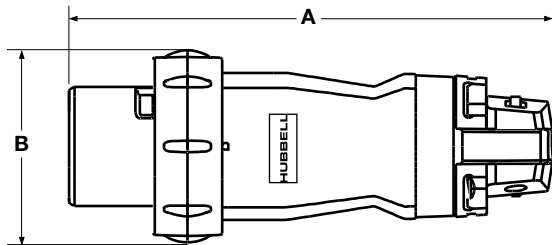
Pin and Sleeve Devices/Mechanical Interlocks

Plug Dimensions

Amps	Type	A		B		Cord Grip Range
		Style I	Style II	Style I	Style II	
30	330P	7.53" (191)	7.53" (191)	3.00" (76)	3.00" (76)	.375-1.20" (9.5-30.5)
	430P	7.53" (191)	7.53" (191)	3.00" (76)	3.00" (76)	.375-1.20" (9.5-30.5)
	530P	7.53" (191)		3.00" (76)		.375-1.20" (9.5-30.5)
60	360P	9.40" (239)	9.40" (239)	3.40" (86)	3.40" (86)	.500-1.45" (12.7-36.8)
	460P	9.40" (239)	9.40" (239)	3.40" (86)	3.70" (94)	.500-1.45" (12.7-36.8)
	560P	9.40" (239)		3.70" (94)		.500-1.45" (12.7-36.8)
100	3100P	10.70" (272)	10.70" (272)	3.70" (94)	3.70" (94)	.925-1.94" (27.0-49.3)
	4100P	10.70" (272)	10.90" (277)	3.70" (94)	4.00" (102)	.925-1.94" (27.0-49.3)
	5100P	10.90" (277)		4.00" (102)		.925-1.94" (27.0-49.3)
200	3200P		11.13" (282)		6.35" (161)	1.00-2.50" (25.4-63.5)
	4200P	11.13" (282)	11.13" (282)	6.35" (161)	6.70" (170)	1.00-2.50" (25.4-63.5)
	5200P	11.13" (282)		6.70" (170)		1.00-2.50" (25.4-63.5)

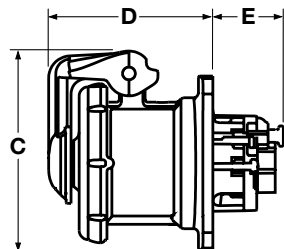
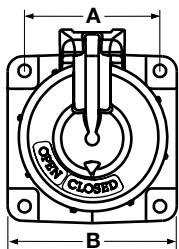
Connector Body Dimensions

Amps	Type	A		B		Cord Grip Range
		Style I	Style II	Style I	Style II	
30	330C	8.38" (213)	8.38" (213)	3.74" (95)	3.74" (95)	.375-1.20" (9.5-30.5)
	430C	8.38" (213)	8.38" (213)	3.74" (95)	3.74" (95)	.375-1.20" (9.5-30.5)
	530C	8.38" (213)		3.74" (95)		.375-1.20" (9.5-30.5)
60	360C	9.90" (251)	9.90" (251)	3.50" (89)	3.50" (89)	.500-1.45" (12.7-36.8)
	460C	9.90" (251)	10.10" (256)	3.50" (89)	3.80" (96)	.500-1.45" (12.7-36.8)
	560C	10.10" (256)		3.80" (96)		.500-1.45" (12.7-36.8)
100	3100C	11.70" (297)	11.70" (297)	4.50" (114)	4.50" (114)	.925-1.94" (27.0-49.3)
	4100C	11.70" (297)	11.90" (302)	4.50" (114)	4.70" (119)	.925-1.94" (27.0-49.3)
	5100C	11.90" (302)		4.70" (119)		.925-1.94" (27.0-49.3)
200	3200C		13.65" (346)		7.00" (177)	1.00-2.50" (25.4-63.5)
	4200C	13.65" (346)	13.65" (346)	7.00" (177)	7.39" (187)	1.00-2.50" (25.4-63.5)
	5200C	13.65" (346)		7.39" (187)		1.00-2.50" (25.4-63.5)

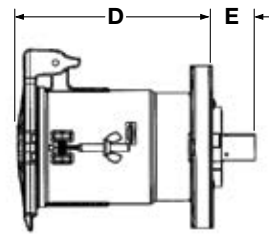
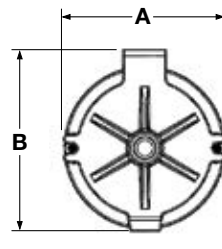


Receptacle Dimensions

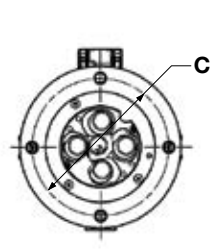
Amps	Type	A		B		C		D		E	
		Style I	Style II	Style I	Style II	Style I	Style II	Style I	Style II	Style I	Style II
30	330R	2.72" (69)	2.72" (69)	3.40" (86)	3.40" (86)	3.89" (99)	3.89" (99)	3.19" (81)	3.19" (81)	1.37" (35)	1.37" (35)
	430R	2.72" (69)	2.72" (69)	3.40" (86)	3.40" (86)	3.89" (99)	3.89" (99)	3.19" (81)	3.19" (81)	1.37" (35)	1.37" (35)
	530R	2.72" (69)		3.40" (86)		3.89" (99)		3.19" (81)		1.37" (35)	
60	360R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.66" (118)	4.42" (112)	4.42" (112)	1.54" (39)	1.54" (39)
	460R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.66" (118)	4.42" (112)	4.42" (112)	1.54" (39)	1.54" (39)
	560R	3.50" (89)		4.25" (108)		4.66" (118)		4.42" (112)		1.54" (39)	
100	3100R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.70" (119)	5.30" (135)	5.30" (135)	1.54" (39)	1.54" (39)
	4100R	3.50" (89)	3.50" (89)	4.25" (108)	4.25" (108)	4.66" (118)	4.70" (119)	5.30" (135)	5.30" (135)	1.54" (39)	1.54" (39)
	5100R	3.50" (89)		4.25" (108)		4.66" (118)		5.30" (135)		1.54" (39)	
200	3200R		6.50" (165)		7.00" (177)		5.63" (143)		7.76" (197)		.99" (25)
	4200R	6.50" (165)	6.90" (170)	7.00" (177)	7.39" (187)	5.63" (143)	5.63" (143)	7.76" (197)	7.76" (197)	.99" (25)	.99" (25)
	5200R	6.90" (170)		7.39" (187)		5.63" (143)		7.76" (197)		.99" (25)	



30, 60 and 100 Amp

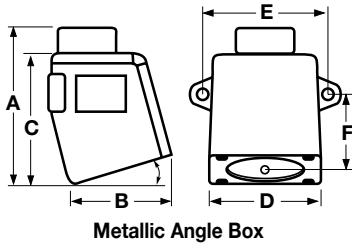


200 Amp



Dimensions in Inches (mm)

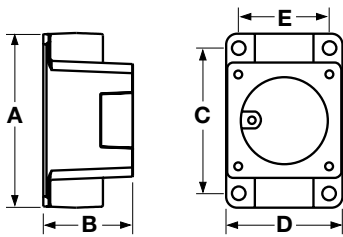
Pin and Sleeve Devices/Mechanical Interlocks



Metallic Angle Box

Metallic Angle Back Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
30° Angle back box for 30A devices.	¾"	4.87" (124.0)	2.94" (75.0)	4.02" (102.0)	3.40" (86.0)	4.25" (108.0)	2.12" (54.0)	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

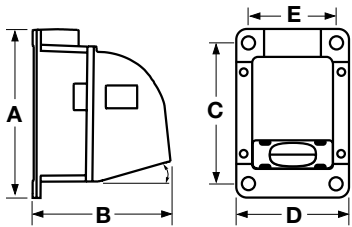


Metallic Feed-Thru Box

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

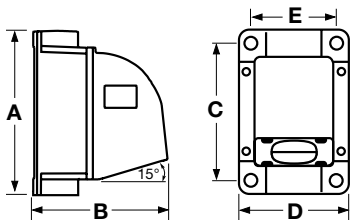
Metallic Four-Way Angle Back Box



Metallic Four-Way Angle Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
15° Angle four-way box for 60 and 100A devices.	1¼"	7.92" (201.0)	8.52" (216.0)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	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 Four-Way Feed-Thru 15° Angle Back Box



Metallic Feed-Thru Angle Box

Description	NPT Hub Size	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	Catalog Number
Four-way Feed-thru box for 60 and 100A devices.	1¼"	7.98" (202.7)	8.55" (217.2)	7.00" (178.0)	6.14" (156.0)	4.88" (124.0)	–	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)

Pin and Sleeve Devices/Mechanical Interlocks

Materials (30, 60, 100, and 200 Amp)

Plug	Material
Housing	PBT (200A Aluminum)
Plug Shroud	Aluminum
Cord Clamps	PBT (200A Aluminum)
Clamp Nut	Nickel Plated Brass
Gland Cap	PBT
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	PBT (200 Amp Aluminum)
Connector Shroud	Epoxy Painted Aluminum
Cord Clamps	PBT
Clamp Nut	Nickel Plated Brass
Gland Cap	PBT (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	
Voltage	30, 60, 100 and 200 Amp, 600/250 Volt AC/DC, 50-400 Hertz
Dielectric Voltage	Withstands 3,000V AC.
Max. Working Voltage	600V AC RMS (i.e., minimum creepage and clearance distance of 6.4 millimeters, per UL 1682).
Current Interrupting	Certified for current interrupting at full rated current.
Temperature Rise	Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current.
Endurance	Up to 1,000 connect and disconnect cycles at full rated current and voltage.

Mechanical	
Impact Resistance	Per CSA C22.2, No. 182.1, UL 1682.
Cord Grip Cable Retention	Per CSA C22.2, No. 182.1, UL 1682.
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. 49 and the harmonized <HAR> European Standards.
Terminal Identification	Terminals identified in accordance with UL 1686 (1, 2, 3, Green).
Product Identification	Identification and ratings are permanently fastened to the device housing.

Environmental	
Hose Down & Moisture Resistance	Type 3, 4, 4X per UL 50E and CSA 22.2, No. 94.
Flammability (Enclosure)	UL 94V-0 and CSA C22.2 No. 0.17.
Operating Temperatures	Maximum Continuous 75°C; Minimum -40°C without impact -25° with impact.
Hazardous Location (30, 60 & 100A) (plug only)	Class I, Division I & II, Groups B, C & D and Class II, Division I & II, Groups F & G per UL 1010 & CSA 22.2, No. 159.

Materials	
Housings	PBT 357 (200A Aluminum).
All Other Materials	Resistant to corrosion and chemical attack.

Watertight Application Guide

Industry	Watertight.
Agriculture	Outdoor for fans, heaters, pumps, etc.
Chemical Processing	Where subject to water, corrosion.
Construction	Outdoors subject to severe weather conditions.
Entertainment	Outdoors subject to severe weather.
Food Processing	Where subject to water, corrosion.
Food Service	Areas subject to wash downs & heavy cleaning.
Light Manufacturing	Subjected to cleaning, solvents & chemicals.
Manufacturing	Where subject to water, corrosion.
Military	Outdoor construction or maintenance.

Pin and Sleeve Devices/Mechanical Interlocks

Features and Benefits

Style II Insulgrip® Mechanical Interlocks

Hubbell Circuit-Lock® Pin and Sleeve Mechanical Interlocks are a revolutionary design that incorporates a disconnect switch and pin and sleeve receptacle in a compact non-metallic unit. These devices offer maximum safety by preventing users from mating or breaking a circuit under load—Hubbell's interlock mechanism detects the presence of a plug and prevents it from being removed when the switch is in the "ON" position.

It features a high visibility red handle that can be locked to meet OSHA lockout/tagout regulations, and the enclosure door can be locked to prevent unauthorized access. The rugged, corrosion-resistant Type 4X PBT 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.



Housing Design

- Non-metallic enclosure meets UL 50E Type 4X (watertight), 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged thermoplastic PBT 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





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	HBL430MIFS2W	HBL430PS2W
60	3P 4W		600/250	HBL460MIFS2W	HBL460PS2W



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	HBL430MIS2W	HBL430PS2W
60	3P 4W		600/250	HBL460MIS2W	HBL460PS2W

Gray Style Switch



HBLACFSNO **HBL30MIFRS**

Black Style Switch



ACFSNO

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



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^Δ

Note: ^ΔPackage of 10 feet and 10 screws.

Pin and Sleeve Devices/Mechanical Interlocks

Typical Specifications

Manufacturer's Identification	Hubbell HBL460MIFS2W
Description	Fused Insulgrip® Pin and Sleeve Mechanical Interlock
Electrical Type	3 Pole + Earth
Rating	60A, 250VDC/600VAC
Configuration	Per UL 1686 C1
Enclosure Type (UL 50E)	Indoor & Outdoor - 4X (Watertight, Washdown) Indoor - 12 (Dust Tight, Falling Dirt)
Ingress Protection Certification	IP66 Suitability 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.

Materials

Part	Material
Base, Door and Handle	PBT
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

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. Suitable for use on a circuit capable of delivering not more than 200,000 RMS symmetrical amperes at the voltage rating of receptacle.
Short Circuit Withstand Rating	Mechanical 10,000 cycles minimum.
Operations	
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	Indoor & 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

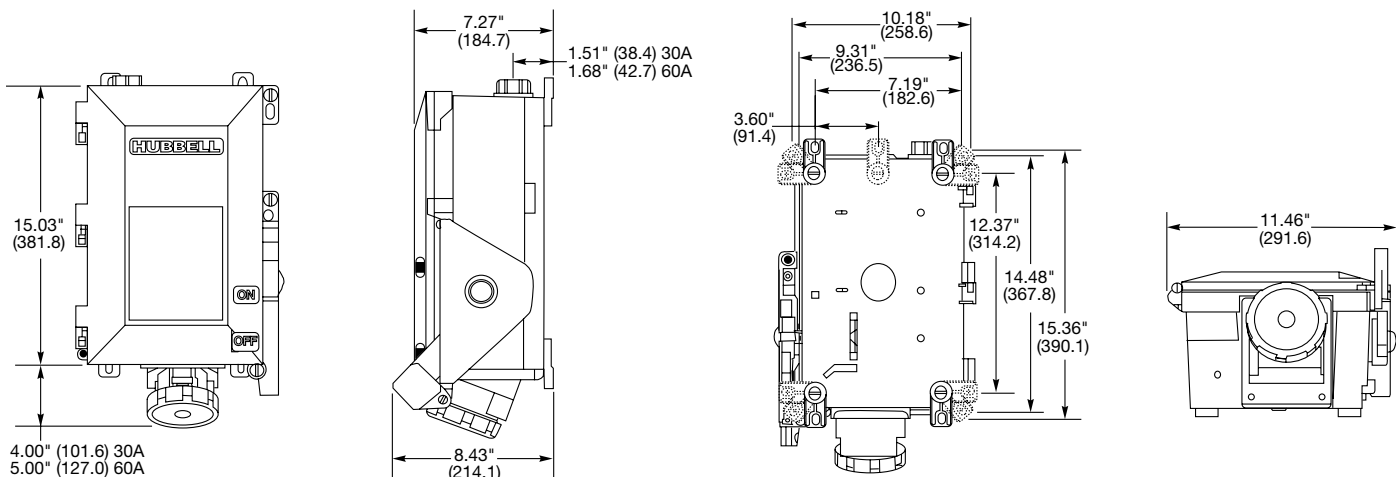
3 Phase A.C.	Standard	Maximum*
200-240V	3	7.5
480V	5	15
600V	7.5	20

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)

Pin and Sleeve Devices/Mechanical Interlocks

Features and Benefits

Hazardous Location Non-Fused Mechanical Interlocks and Plugs

Hubbell's Hazardous Location Line of Non-Fused UL 1686 Mechanical Interlock Disconnect Switches are typically used for applications with the presence of flammable gasses or vapors, ignitable dusts and fibers. They are also suitable for use in outdoor or indoor damp, wet and dirty locations or in areas where frequent wash downs, heavy rain, or water spray routinely occurs.

These switches are compact in size to reduce cost and make it easier to position on the wall or piece of equipment. The enclosures are made of copper-free aluminum and have a polyester/epoxy finish to prevent corrosion. The high visibility handles can be locked out to comply with OSHA lock out/tag out regulations.

VSQ Hazardous Location Ratings

Class I, Div. 1 & 2, Groups B,C,D

Class I, Zones 1 & 2, Groups IIB+H2, IIA

Class II, Div. 1 & 2, Groups F & G

Class III

NEMA 3, 4, 4X, 7 (B,C,D), 9 (F,G)



Housing Design

- Copper-free aluminum construction with electrostatically applied polyester/epoxy finish to prevent corrosion
- Compact NEMA 4X enclosure and footprint allows easy installation in tight locations
- Feed-through construction



Internal Design

- Auxiliary contact (late-make early-break) contact rated 10 amp, 1/3 HP at 125/250V AC can be used for operating pilot lights or starter coils
- Internal switch horsepower rated as "suitable as a motor disconnect"



Safety

- Lockable handle to meet OSHA Lockout/Tagout regulations
- Large visible rotary handle with ON/OFF indicator allows a quick means of disconnecting power
- Handle mechanism is chemical resistant PBT thermoplastic



Plug Locking Ring

- NEMA 4X environmental rating with cover engaged or when mated with a 4X plug



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

Pin and Sleeve Devices/Mechanical Interlocks



HBLVSQ3034

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

Amp	Circuit	Mechanical Interlock	Metallic Plug	Insulgrip Plug
30 Amp	2W 3P	HBLVSQ3023	HBLVP3385	HBL330PS2W
600V AC	3W 4P	HBLVSQ3034	HBLVP3485	HBL430PS2W
60 AMP	2W 3P	HBLVSQ6023	HBLVP6385	HBL360PS2W
600V AC	3W 4P	HBLVSQ6034	HBLVP6485	HBL460PS2W

Note: Early break contact comes standard with mechanical interlocks.

HBLVSQ 30 Amp models come standard with 1 inch drilled and tapped conduit openings top and bottom plus two 1 inch x 3/4 inch reducers and one 3/4 inch close-up plug for maximum flexibility. 60 amp models come with one 1 1/2 inch opening on top and bottom and one 1 1/2 inch close-up plug.



HBLVP3485



HBL430PS2W

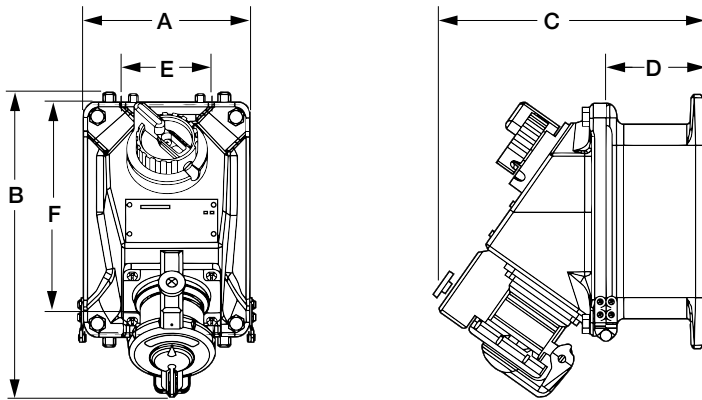
Horsepower Ratings (VAC)*

Amp	Circuit	120	240	480	600	Catalog Number
30 Amp	1Ø	2	5	10	15	HBLVSQ3023
	3Ø	3	7.5	15	20	HBLVSQ3034
60 Amp	1Ø	-	10	15	20	HBLVSQ6023
	3Ø	-	10	25	30	HBLVSQ6034

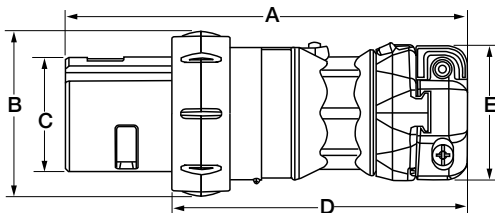
Note: *Internal switch only.

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)

SECTION H

Table of Contents



Single Pole Inlines and Receptacles



Spider® II Temporary Power Boxes and Temporary Lighting



Stage Pin and Convention Center Pin and Sleeve Devices



Single Pole Devices

	Page
Series 15 - 150 Amp, 600 Volts	
Features and Benefits	H-2
Inlines, Receptacles, Protective Caps and Weather Protective Covers	H-3
Tees, Gender Reversing Devices, Replacement Bodies and Accessories	H-4
Specifications and Dimensions	H-5
Series 16 - 300 and 400 Amp, 600 Volts	
Features and Benefits	H-2
Inlines and Receptacles	H-6
Receptacles, Terminals, Protective Caps and Weather Protective Covers	H-7
Tees, 3-Fers, Gender Reversing Devices, and Distribution Block	H-8
Replacement Parts, Snap Back Covers and Accessories	H-8
Specifications and Dimensions	H-9
Series 18 - 300 and 400 Amp, 600V AC/250V DC	
Features, 300 and 400 Amp Inlines	H-10
Replacement Bodies and Accessories	H-10
Specifications and Dimensions	H-10

Temporary Power

	Page
Spider® II Temporary Power Boxes	
Features and Benefits	H-11
50A and 60A Spider® II Boxes	H-12
Cable Sets, Receptacles and Replacement Parts	H-13
Temporary Power Boxes and Power Cables	H-14
Heavy-Duty Portable Outlet Boxes and Cover Plates	H-15
Temporary Lighting	
Construction Site Lighting	H-16
Maintenance Worklights, Accessories and Replacement Items	H-17
Explosion Proof/Confined Space Lighting	H-17
Pre-Wired Portable Outlet Boxes, Worklights and Accessories	H-18

Stage Pin Devices

	Page
Features and Benefits	H-19
20, 60 & 100 Amp Devices	H-20

Convention Center Pin and Sleeve Devices

	Page
Features and Benefits	H-21
60 Amp Devices	H-22

Single Pole Devices and Temporary Power

Features and Benefits

Series 15 and 16 - 150, 300 and 400 Amp, 600 Volts

Hubbell Wiring Device-Kellems offers a full line of innovative, high quality, Series 15 and Series 16 single pole inlines, receptacles and accessories for the most demanding environments.

Single pole devices are the right choice for supplying temporary electrical power distribution for entertainment, theme parks, carnival equipment, concerts, movie making and numerous other applications requiring temporary power.

Single pole devices have been designed with ease of assembly and disassembly in mind, no special tools are required. A high strength non-conductive retaining screw is all that is needed to securely lock the contacts to the insulated sleeve.

UL Enclosure Types 3R, 4X and 12 Rating suitable for use in almost any environment.



Housing Design

- Insulgrip® style housing for superior gripping, conforms to the user's hand making it easy to connect and disconnect, even with gloves on
- Easily identifiable cable, cut off points for secure fit allows you to easily customize and cut the housing to the required/correct cable size
- Accommodates wide range of cables



Contacts

- Provides high contact pressure and vibration resistant connection, which helps reduce operating temperatures and extends product life
- High conductivity brass contact provides improved performance by helping to reduce operating temperatures and extends life



Safety

- Rounded corners reduce the possibility of catching or snagging on structures or equipment
- Non-conductive retaining screw locks contacts in place and allows for easy installation; prevents contact movement within housing
- Recessed mounting screw minimizes screwdriver slippage



Assembly

- Special screw thread requires fewer turns than most competitors and reduces the risk of a conductive screw being substituted
- Extra long non-conductive inner sleeve reduces force required to install housing over contacts; easier to rotate contact in body for installing retaining screw



Identification

- Lock symbol aids in the mating of devices and provides a clear indication that the devices are properly connected
- With lock indicator symbol making mating clear and simple; devices can lock 180° to prevent unintended disconnects



Installation

- Engineered body design makes installation simple with no need for additional tools and the non-metallic retaining screw helps to make operation safe for all involved
- Strip gauge molded into every inline and receptacle housing; simplifies installation and saves time

Series 15 - 150 Amp, 600 Volts

Enclosure Types
3R, 4X, 12



150 Amp Inlines

Description	Color	Male Inline
150 amp, thermoplastic elastomer, cable size #8 - #2 AWG.	Black	HBL15MBK
	White	HBL15MW
	Green	HBL15MGN
	Red	HBL15MR
	Blue	HBL15MBL
	Brown	HBL15MBN
	Orange	HBL15MO
	Yellow	HBL15MY
	Gray	HBL15MGY



150 Amp Inlines

Description	Color	Female Inline
150 amp, thermoplastic elastomer, cable size #8 - #2 AWG.	Black	HBL15FBK
	White	HBL15FW
	Green	HBL15FGN
	Red	HBL15FR
	Blue	HBL15FBL
	Brown	HBL15FBN
	Orange	HBL15FO
	Yellow	HBL15FY
	Gray	HBL15FGY

Receptacles, Stud Type Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
150 amp, Panel Mount, thermoplastic, cable size #8 - #2 AWG.	Black	HBL15MRSBK	HBL15FRSBK
	White	HBL15MRSW	HBL15FRSW
	Green	HBL15MRSGN	HBL15FRSGN
	Red	HBL15MRSR	HBL15FRSR
	Blue	HBL15MRSBL	HBL15FRSBL
	Brown	HBL15MRSBN	HBL15FRSBN
	Orange	HBL15MRSO	HBL15FRSO
	Yellow	HBL15MRSY	HBL15FRSY
	Gray*	—	—

Receptacles, Double Set Screw Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
150 amp, Panel Mount, thermoplastic, cable size #8 - #2 AWG.	Black	HBL15MRBK	HBL15FRBK
	White	HBL15MRW	HBL15FRW
	Green	HBL15MRGN	HBL15FRGN
	Red	HBL15MRR	HBL15FRR
	Blue	HBL15MRBL	HBL15FRBL
	Brown	HBL15MRBN	HBL15FRBN
	Orange	HBL15MRO	HBL15FRO
	Yellow	HBL15MRY	HBL15FRY
	Gray	HBL15MRGY	HBL15FRGY

Note: *Gray is available upon request. Contact factory.



Protective Caps

Description	Color	Fits Male Devices	Fits Female Devices
Fits 150 amp inlines and receptacles.	Black	HBL15MCAPBK	HBL15FCAPBK
	White	HBL15MCAPW	HBL15FCAPW
	Green	HBL15MCAPGN	HBL15FCAPGN
	Red	HBL15MCAPR	HBL15FCAPR
	Blue	HBL15MCAPBL	HBL15FCAPBL
	**	—	—

Note: **Additional colors are available upon request. Contact factory.

Weather Protective Covers



Description	Color	Catalog Number
Use with stud type or double set screw receptacles.	Clear	HBL15NCC
	Black	HBL15NCBK
	White	HBL15NCW
	Green	HBL15NCGN
	Red	HBL15NCR
	Blue	HBL15NCBL
	Brown	HBL15NCBN
	Orange	HBL15NCO
	Yellow	HBL15NCY

Series 15 - 150 Amp, 600 Volts

Enclosure Types
3R, 4X, 12

Tees



Color	Paralleling Tee (Male-Male-Female)	Tapping Tee (Female-Male-Female)
Black	HBL15PTBK	HBL15TBK
White	HBL15PTW	HBL15TW
Green	HBL15PTGN	HBL15TGN
Red	HBL15PTR	HBL15TR
Blue	HBL15PTBL	HBL15TBL

Gender Reversing Devices



Color	Double Male (Male-Male)	Double Female (Female-Female)
Black	HBL15DMBK*	HBL15DFBK*
White	HBL15DMW	HBL15DFW
Green	HBL15DMGN	HBL15DFGN
Red	HBL15DMR*	HBL15DFR*
Blue	HBL15DMBL*	HBL15DFBL*

Note: *UL 1691 restricts the use of male-to-male or female-to-female devices to Grounding (Green) or Neutral (White) conductors. Consult factory for availability of other non UL listed colors.

Replacement Bodies (25 Pack)



Color	Male Body	Female Body
Black	HBL15MBBK	HBL15FBBK
White	HBL15MBW	HBL15FBW
Green	HBL15MBGN	HBL15FBGN
Red	HBL15MBR	HBL15FBR
Blue	HBL15MBBL	HBL15FBL

Note: **Additional colors are available upon request. Contact factory.

Replacement Contacts (25 Pack)



Description	Male Pin	Female Sleeve
Contact, 150 amp	HBL15RCM	HBL15RCF

Accessories

Description	Catalog Number
Accessory Kit, retaining screw, copper foil, terminal screws and brass wire.	HBL15PK
Replacement retaining screw (100 pack).	HBL15RS
Copper foil (100 pack).	HBL15CF
Brass wire (100 pack).	HBL15BW
Terminal screw - inline (100 pack).	HBL15TS25
Terminal screw - panel mount (100 pack).	HBL15TS375
Ferrule #2 AWG (100 pack).	HBL15F2
Ferrule #4 AWG (100 pack).	HBL15F4



HBL15PK



HBL15RS



HBL15CF



HBL15BW



HBL15TS25



HBL15TS375



HBL15F2
HBL15F4

Single Pole Devices and Temporary Power

Series 15 - 150 Amp, 600 Volts

Specifications

Electrical	
Voltage Ratings	600V Maximum
Amperage Rating	150A Maximum
Mechanical	
Terminal Accommodation	Inline: #8 AWG to #2 AWG Receptacle: #8 AWG to #2 AWG
Product ID	Ratings are a permanent part of device
Base Compound	Inline: Thermoplastic Elastomer (TPE) Receptacle: Polybutylene Terephthalate (PBT)
Contact Material	Brass
Retaining Screw Material	Nylon

Certification / Environmental

UL and cUL Listed
 UL Enclosure Types 3R, 4X, 12
 UL1691 standard for single pole locking-type separable connectors
 National Electric Code (NEC®), ANSI/NFPA 70
 Flammability: HB per UL94 or CSA 22.2. 0.17

Conductor Ampacity Chart (Type SC/PPC Wire)

Cable Size	Ampacity*
#8	80
#6	105
#4	140
#2	190

Note: *90°C column NEC Table 400.5(A)(2).

Dimensions

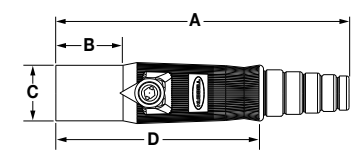
Inlines

	A	B	C	D
Male	4.54" (115.3)	1.04" (26.4)	.86" (21.8)	3.22" (81.7)
Female	4.60" (116.8)	1.11" (28.2)	.68" (17.3)	3.28" (83.2)

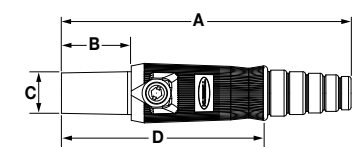
Weatherproof Cover

	A	B	C
Series 15	2.03" (51.5)	1.14" (29.0)	1.49" (37.9)

Male Inline



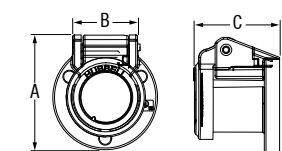
Female Inline



Panel Mount Receptacles

Threaded Stud	A	B	C	D	E	F	Mounting Hole	Termination
Male	1.86" (47.2)	1.37" (34.8)	2.82" (71.6)	.86" (22.0)	.80" (20.4)	1.20" (30.5)	Through 3x Ø .20"	5/16-18 Threaded Stud
Female	1.86" (47.2)	1.37" (34.8)	2.88" (73.1)	.86" (22.0)	.80" (20.4)	1.26" (32.0)	Through 3x Ø .20"	5/16-18 Threaded Stud
Double Set Screw	A	B	C	D	E	F	Mounting Hole	Termination
Male	1.86" (47.2)	1.37" (34.8)	2.90" (73.6)	.86" (22.0)	.88" (22.2)	1.20" (30.5)	Through 3x Ø .20"	(2) 5/32 Socket Head Set Screws
Female	1.86" (47.2)	1.37" (34.8)	2.95" (74.9)	.86" (22.0)	.87" (22.2)	1.26" (32.0)	Through 3x Ø .20"	(2) 5/32 Socket Head Set Screws

Weatherproof Cover



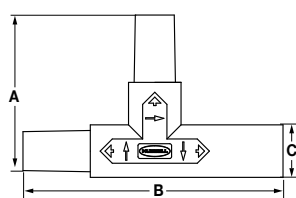
Tees

	A	B	C
Tapping Tee	2.67" (67.9)	4.28" (108.7)	.865" (21.9)
Paralleling Tee	2.67" (67.9)	4.22" (107.2)	.865" (21.9)

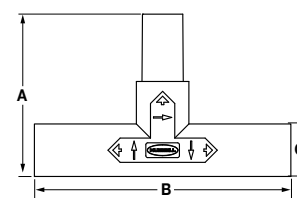
Gender Reversing Devices

	A	B	C
Double Male	4.22" (107.2)	.86" (21.8)	—
Double Female	4.22" (107.2)	1.05" (26.7)	.68" (17.3)

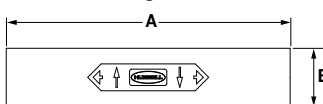
Tapping Tee



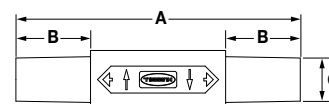
Paralleling Tee



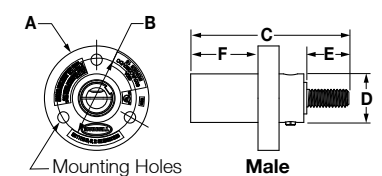
Gender Reversing - Double Male



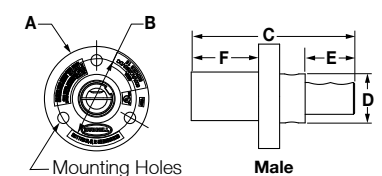
Gender Reversing - Double Female



Threaded Stud (Male Shown)



Double Set Screw (Male Shown)



Series 16 - 300 and 400 Amp, 600 Volts

Enclosure Types
3R, 4X, 12



300 Amp Inlines

Description	Color	Male Inline	Female Inline
300 amp, thermoplastic elastomer, cable size #6 - 2/0 AWG.	Black	HBL300MBK	HBL300FBK
	White	HBL300MW	HBL300FW
	Green	HBL300MGN	HBL300FGN
	Red	HBL300MR	HBL300FR
	Blue	HBL300MBL	HBL300FBL
	Brown	HBL300MBN	HBL300FBN
	Orange	HBL300MO	HBL300FO
	Yellow	HBL300MY	HBL300FY
	Gray*	—	—

Note: *Gray is available upon request. Contact factory.



400 Amp Inlines

Description	Color	Male Inline	Female Inline
400 amp, thermoplastic elastomer, cable size 2/0 - 4/0 AWG.	Black	HBL400MBK	HBL400FBK
	White	HBL400MW	HBL400FW
	Green	HBL400MGN	HBL400FGN
	Red	HBL400MR	HBL400FR
	Blue	HBL400MBL	HBL400FBL
	Brown	HBL400MBN	HBL400FBN
	Orange	HBL400MO	HBL400FO
	Yellow	HBL400MY	HBL400FY
	Gray	HBL400MGY	HBL400FGY

Receptacles, Double Set Screw Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp, Panel Mount, thermoplastic elastomer, cable size #4 - 4/0 AWG, mates with 300 and 400 amp Inlines.	Black	HBLMRBK	HBLFRBK
	White	HBLMRW	HBLFRW
	Green	HBLMRGN	HBLFRGN
	Red	HBLMRR	HBLFRR
	Blue	HBLMRBL	HBLFRBL
	Brown	HBLMRBN	HBLFRBN
	Orange	HBLMRO	HBLFRO
	Yellow	HBLMRY	HBLFRY
	Gray	HBLMRGY	HBLFRGY

Angled Receptacles, Double Set Screw Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp, Panel Mount, thermoplastic elastomer, cable size #4 - 4/0 AWG, mates with 300 and 400 amp Inlines.	Black	HBLMRABK	HBLFRABK
	White	HBLMRAW	HBLFRAW
	Green	HBLMRAGN	HBLFRAGN
	Red	HBLMRAR	HBLFRAR
	Blue	HBLMRABL	HBLFRABL
	Brown	HBLMRABN	HBLFRABN
	Orange	HBLMRAO	HBLFRAO
	Yellow	HBLMRAY	HBLFRAY
	Gray*	—	—

Note: *Gray is available upon request. Contact factory.

Receptacles, Stud Type Threaded Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRSBK	HBLFRSBK
	White	HBLMRSW	HBLFRSW
	Green	HBLMRSGN	HBLFRSGN
	Red	HBLMRSCR	HBLFRSCR
	Blue	HBLMRSCL	HBLFRSCL
	Brown	HBLMRSBN	HBLFRSBN
	Orange	HBLMRSCO	HBLFRSCO
	Yellow	HBLMRSCY	HBLFRSCY

Receptacles, Extended Stud Type Threaded Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRSCEBK	HBLFRSCEBK
	White	HBLMRSCEW	HBLFRSCEW
	Green	HBLMRSCEGN	HBLFRSCEGN
	Red	HBLMRSCEER	HBLFRSCEER
	Blue	HBLMRSCEBL	HBLFRSCEBL
	Brown	HBLMRSCEBN	HBLFRSCEBN
	Orange	HBLMRSCEO	HBLFRSCEO
	Yellow	HBLMRSCEY	HBLFRSCEY

Receptacles, Stud Type Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRSBK	HBLFRSBK
	White	HBLMRSW	HBLFRSW
	Green	HBLMRSGN	HBLFRSGN
	Red	HBLMRSR	HBLFRSR
	Blue	HBLMRSBL	HBLFRSBL
	Brown	HBLMRSBN	HBLFRSBN
	Orange	HBLMRSO	HBLFRSO
	Yellow	HBLMRSY	HBLFRSY

Angled Receptacles, Stud Type Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRASBK	HBLFRASBK
	White	HBLMRASW	HBLFRASW
	Green	HBLMRASGN	HBLFRASGN
	Red	HBLMRASR	HBLFRASR
	Blue	HBLMRASBL	HBLFRASBL
	Brown	HBLMRASBN	HBLFRASBN
	Orange	HBLMRASO	HBLFRASO
	Yellow	HBLMRASY	HBLFRASY

Single Pole Devices and Temporary Power



Series 16 - 300 and 400 Amp, 600 Volts

Enclosure Types
3R, 4X, 12

Receptacles, Bus Bar Threaded Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRBBK	HBLFRBBK
	White	HBLMRBW	HBLFRBW
	Green	HBLMRBGN	HBLFRBGN
	Red	HBLMRBR	HBLFRBR
	Blue	HBLMRBBL	HBLFRBBL
	Brown	HBLMRBBN	HBLFRBBN
	Orange	HBLMRBO	HBLFRBO
	Yellow	HBLMRBY	HBLFRBY

Angled Receptacles, Bus Bar Through Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRABBK	HBLFRABBK
	White	HBLMRABW	HBLFRABW
	Green	HBLMRABGN	HBLFRABGN
	Red	HBLMRABR	HBLFRABR
	Blue	HBLMRABBL	HBLFRABBL
	Brown	HBLMRABBN	HBLFRABBN
	Orange	HBLMRABO	HBLFRABO
	Yellow	HBLMRABY	HBLFRABY

Receptacles, Bus Bar, 2 Holes Threaded Hole Mounting



Description	Color	Male Receptacles	Female Receptacles
400 amp Panel Mount, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMRB2BK	HBLFRB2BK
	White	HBLMRB2W	HBLFRB2W
	Green	HBLMRB2GN	HBLFRB2GN
	Red	HBLMRB2R	HBLFRB2R
	Blue	HBLMRB2BL	HBLFRB2BL
	Brown	HBLMRB2BN	HBLFRB2BN
	Orange	HBLMRB2O	HBLFRB2O
	Yellow	HBLMRB2Y	HBLFRB2Y

Terminals, Offset Straight Style



Description	Color	Male Receptacles	Female Receptacles
400 amp Terminal, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMOSBK	HBLFOSBK
	White	HBLMOSW	HBLFOSW
	Green	HBLMOSGN	HBLFOSGN
	Red	HBLMOSR	HBLFOSR
	Blue	HBLMOSBL	HBLFOSBL
	Brown	HBLMOSBN	HBLFOSBN
	Orange	HBLMOSO	HBLFOSO
	Yellow	HBLMOSY	HBLFOSY

Note: Terminals are UL Type 1 only.

Angled Terminals, Offset Straight Style



Description	Color	Male Receptacles	Female Receptacles
400 amp Terminal, thermoplastic elastomer, mates with 300 and 400 amp Inlines.	Black	HBLMOABK	HBLFOABK
	White	HBLMOAW	HBLFOAW
	Green	HBLMOAGN	HBLFOAGN
	Red	HBLMOAR	HBLFOAR
	Blue	HBLMOABL	HBLFOABL
	Brown	HBLMOABN	HBLFOABN
	Orange	HBLMOAO	HBLFOAO
	Yellow	HBLMOAY	HBLFOAY

Note: Angled terminals are UL Type 1 only.

Protective Caps



Color	Fits Male Devices	Fits Female Devices
Black	HBLMCAPBK	HBLFCAPBK
White	HBLMCAPW	HBLFCAPW
Green	HBLMCAPGN	HBLFCAPGN
Red	HBLMCAPR	HBLFCAPR
Blue	HBLMCAPBL	HBLFCAPBL
Brown	HBLMCAPBN	HBLFCAPBN
Orange	HBLMCAPO	HBLFCAPO
Yellow	HBLMCAPY	HBLFCAPY

Weather Protective Lift Covers



Color	Catalog Number	All One Color Caps and Bodies
Clear	HBLNCC	—
Black	HBLNCBK	HBLNCABK
White	HBLNCW	HBLNCAW
Green	HBLNCGN	HBLNCAGN
Red	HBLNCR	HBLNCAR
Blue	HBLNCBL	HBLNCABL
Brown	HBLNCBN	HBLNCABN
Orange	HBLNCO	HBLNCAO
Yellow	HBLNCY	HBLNCAY

Series 16 - 300 and 400 Amp, 600 Volts

Enclosure Types
3R, 4X, 12

Tees and 3-Fers



Color	Paralleling Tee (Male-Male-Female)	Tapping Tee (Female-Male-Female)	3-Fer (Male-Female-Female-Female)	3-Fer (Female-Male-Male-Male)	Soft 3-Fer (Male-Female-Female-Female)	Soft 3-Fer (Female-Male-Male-Male)
Black	HBLPTBK	HBLTBK	HBLM3FBK	HBLF3MBK	HBLM3FSBK	—
White	HBLPTW	HBLTW	HBLM3FW	HBLF3MW	—	—
Green	HBLPTGN	HBLTGN	HBLM3FGN	HBLF3MGN	—	HBLF3MSGN
Red	HBLPTR	HBLTR	HBLM3FR	HBLF3MR	—	—
Blue	HBLPTBL	HBLTBL	HBLM3FBL	HBLF3MBL	—	—
Brown	HBLPTBN	HBLTBN	HBLM3FBN	HBLF3MBN	—	—
Orange	HBLPTO	HBLTO	HBLM3FO	HBLF3MO	—	—
Yellow	HBLPTY	HBLTY	HBLM3FY	HBLF3MY	—	—

Gender Reversing Devices



Color	Double Male (Male-Male)	Double Female (Female-Female)
Black	HBLDMBK	HBLDFBK
White	HBLDMW	HBLDFW
Green	HBLDMGN	HBLDFGN
Red	HBLDMR	HBLDFR
Blue	HBLDMBL	HBLDFBL
Brown	HBLDMBN	HBLDFBN
Orange	HBLDMO	HBLDFO
Yellow	HBLDMY	HBLDFY

Distribution Block



Description	Color	(1-Male, 6-Females)
400 amp Distribution Block, Single Conductor, Heavy Duty Industrial Grade, Pre-Wired, (1) Male to (6) Females.	Black	HBL7DBBK
	White	HBL7DBW
	Green	HBL7DBGN
	Red	HBL7DBR
	Blue	HBL7DBBL
	Brown	HBL7DBBN
Orange	HBL7DBO	
Yellow	HBL7DBY	

Replacement Bodies (10 Pack)



Color	Male Body	Female Body
Black	HBLMBBK	HBLFBBK
White	HBLMBW	HBLFBW
Green	HBLMBGN	HBLFBGN
Red	HBLMBR	HBLFBR
Blue	HBLMBBL	HBLFBBL
Brown	HBLMBBN	HBLFBBN
Orange	HBLMBO	HBLFBO
Yellow	HBLMBY	HBLFBY

Replacement Contacts (20 Pack)



Description	Male Pin	Female Sleeve
Contact, 300 amp	HBL300RCM	HBL300RCF
Contact, 400 amp	HBL400RCM	HBL400RCF

Snap Back Covers (3R Only)



Color	Through Hole Mounting	Threaded Mounting Holes
Black	HBLSCBK	HBLSCCBK
White	HBLSCW	HBLSCCW
Green	HBLSCGN	HBLSCCGN
Red	HBLSCR	HBLSCCR
Blue	HBLSCBL	HBLSCCBL
Brown	HBLSCBN	HBLSCCBN
Orange	HBLSCO	HBLSCCO
Yellow	HBLSCY	HBLSCCY

Accessories



Description	Catalog Number
Accessory Kit, retaining screw, copper foil, terminal screws and brass wire.	HBLPK
Replacement retaining screw (500 pack).	HBLRS
Copper foil (500 pack).	HBLCF
Brass wire (500 pack).	HBLBW
Terminal screw - inline (500 pack).	HBLTS
Terminal screw - panel mount (500 pack).	HBLTSR

Single Pole Devices and Temporary Power

Series 16 - 300 and 400 Amp, 600 Volts

Specifications

Electrical	Series 16	
Voltage Ratings	600V AC Maximum 250V DC Maximum	
Amperage Rating	400A Maximum	
Mechanical	300A	400A
Terminal Accommodation	Inline: #6 to 2/0 AWG	Inline: 2/0 to 4/0 AWG Recept.: #4 to 4/0 AWG
Product ID	Ratings are a permanent part of device	
Base Compound	Thermoplastic Elastomer (TPE)	
Contact Material	Brass	
Retaining Screw Material	Nylon	

Certification / Environmental

UL and cUL Listed
 UL Enclosure Types 3R, 4X, 12
 UL1691 standard for single pole locking-type separable connectors
 National Electric Code (NEC), ANSI/NFPA 70
 Flammability: HB per UL94 or CSA 22.2. 0.17

Conductor Ampacity Chart (Type SC/PPC Wire)

Cable Size	Ampacity*	Cable Size	Ampacity*
#6	105	2/0	300
#4	140	4/0	405
#2	190		

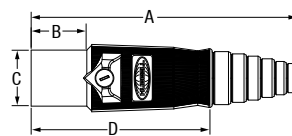
Note: *90°C column NEC Table 400.5(A)(2).

Dimensions

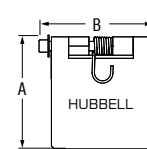
Inlines

Description	A	B	C	D
Male	7.01" (178.0)	1.38" (35.1)	1.48" (37.6)	4.78" (121.4)
Female	7.10" (180.5)	1.44" (36.6)	1.06" (27.0)	4.90" (121.3)

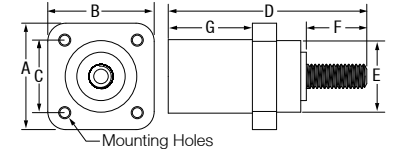
Inline (Male Shown)



Snap Back Cover



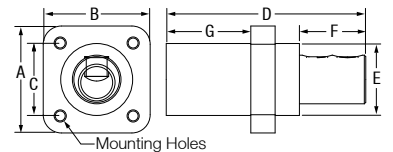
Threaded Stud (Male Shown)



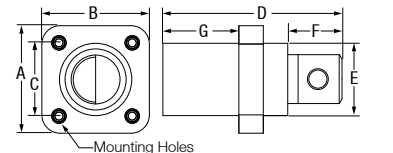
Panel Mount Receptacles

Threaded Stud	A	B	C	D	E	F	G	Mounting Hole	Termination
Male & Female with through hole mounting	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	4.10" (104.3)	1.48" (37.6)	1.25" (31.7)	1.74" (44.2)	Through 4x Ø .20"	1/2-13 UNC-2A Threaded Stud
Male & Female with threaded mounting holes	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	3.67" (93.2)	1.48" (37.6)	1.11" (28.2)	1.55" (39.4)	Threaded 4x #10-32	1/2-13 UNC-2A Threaded Stud
Double Set Screw	A	B	C	D	E	F	G	Mounting Hole	Termination
Male & Female with threaded mounting holes	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	4.10" (104.3)	1.48" (37.6)	1.36" (34.5)	1.74" (44.2)	Threaded 4x #10-32	(2) 7/32 Socket Head Set Screws
Bus Bar Type	A	B	C	D	E	F	G	Mounting Hole	Termination
Male & Female with threaded mounting holes	2.20" (55.9)	2.20" (55.9)	1.50" (38.1)	3.57" (90.7)	1.48" (37.6)	1.01" (25.7)	1.55" (39.4)	Threaded 4x #10-32	(1) 5/16-18 UNC-2B Threaded Hole
Offset Terminals	A	B	C	D	E	F	Mounting Hole	Termination	
Male terminal straight style	Ø 1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.89" (98.8)	1.75" (44.5)	2.14" (54.4)	Through .50" (12.7)	—	
Female terminal straight style	Ø 1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.68" (93.3)	1.75" (44.5)	1.93" (48.9)	Through .50" (12.7)	—	
Male terminal angled style	Ø 1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.98" (101.1)	2.06" (52.2)	2.14" (54.4)	Through .50" (12.7)	—	
Female terminal angled style	Ø 1.48" [37.6]	1.00" (25.4)	.38" (9.5)	3.76" (95.6)	2.06" (52.2)	1.93" (48.9)	Through .50" (12.7)	—	

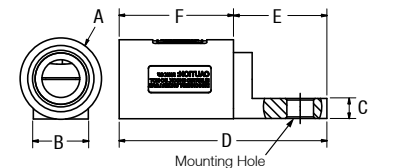
Double Set Screw (Male Shown)



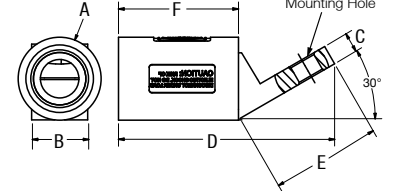
Bus Bar Type (Male Shown)



Offset Terminals (Male Shown) Straight Style



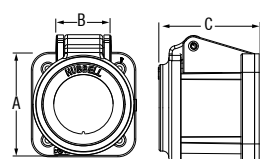
Angled Style



Covers

Description	A	B	C
Weatherproof Cover	2.20" (55.88)	1.16" (29.44)	2.03" (51.5)
Snap Back Cover to be used with receptacles	2.26" (57.4)	2.37" (60.2)	—

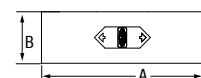
Weatherproof Cover



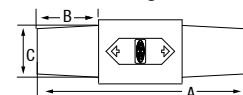
Gender Reversing Devices

Description	A	B	C
Double Male	4.65" (118.1)	1.48" (37.6)	—
Double Female	4.84" (122.9)	1.44" (36.6)	1.06" (27.0)

Gender Reversing - Double Male



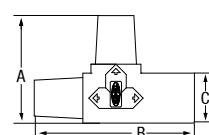
Gender Reversing - Double Female



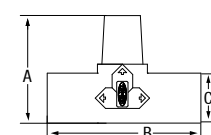
Tees and 3-Fers

Description	A	B	C
Tapping Tee	3.18" (80.8)	4.74" (120.4)	1.48" (37.6)
Paralleling Tee	3.18" (80.8)	4.65" (118.1)	1.48" (37.6)
3-Fer	5.88" (149.3)	5.78" (146.9)	1.48" (37.6)

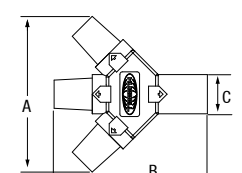
Tapping Tee



Paralleling Tee



3-Fer



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

Dimensions in Inches (mm)

Single Pole Devices and Temporary Power



Series 18 - 300 and 400 Amp, 600V AC/250V DC

Enclosure Types
3R, 4X, 12

- Enclosure Types 3R, 4X, 12
- Non-metallic safety retaining screw
- Easy to grip body design
- Accepts #2 to 4/0 AWG wire
- Replacement bodies available
- UL and cULus listed



300 Amp Inlines

Description	Color	Male Inline	Female Inline
Thermoplastic elastomer, cable size #2 - 2/0 AWG.	Black	HBL18300MBK	HBL18300FBK
	White	HBL18300MW	HBL18300FW
	Green	HBL18300MGN	HBL18300FGN
	Red	HBL18300MR	HBL18300FR
	Blue	HBL18300MBL	HBL18300FBL
	Brown	HBL18300MBN	HBL18300FBN
	Orange	HBL18300MO	HBL18300FO
	Yellow	HBL18300MY	HBL18300FY

400 Amp Inlines

Description	Color	Male Inline	Female Inline
Thermoplastic elastomer, cable size 3/0 - 4/0 AWG.	Black	HBL18400MBK	HBL18400FBK
	White	HBL18400MW	HBL18400FW
	Green	HBL18400MGN	HBL18400FGN
	Red	HBL18400MR	HBL18400FR
	Blue	HBL18400MBL	HBL18400FBL
	Brown	HBL18400MBN	HBL18400FBN
	Orange	HBL18400MO	HBL18400FO
	Yellow	HBL18400MY	HBL18400FY

Replacement Bodies (10 Pack)



Description	Color	Male Inline	Female Inline
Thermoplastic elastomer.	Black	HBL18MBBK	HBL18FBBK
	White	HBL18MBW	HBL18FBW
	Green	HBL18MBGN	HBL18FBGN
	Red	HBL18MBR	HBL18FBR
	Blue	HBL18MBBL	HBL18FBBL
	Brown	HBL18MBBN	HBL18FBBN
	Orange	HBL18MBO	HBL18FBO
	Yellow	HBL18MBY	HBL18FBY

Accessories



Description	Catalog Number
Series 18, replacement retaining screw (500 pack).	HBL18RS
Copper foil (500 pack).	HBLCF
Brass wire (500 pack).	HBLBW

Specifications

Electrical	Series 18	
Voltage Ratings	600V AC Maximum 250V DC Maximum	
Amperage Rating	400A Maximum	
Mechanical	300A	400A
Terminal Accommodation	Inline: #2 to 2/0 AWG	Inline: 3/0 to 4/0 AWG
Product ID	Ratings are a permanent part of device	
Base Compound	Thermoplastic Elastomer (TPE)	
Contact Material	Brass	
Retaining Screw Material	Nylon	

Certification / Environmental

Series 18
UL and cULus listed
UL Enclosure Types 3R, 4X, 12
UL 1691 standard for single pole locking-type separable connectors
National Electric Code (NEC), ANSI/NFPA 70
Flammability: HB per UL94 or CSA 22.2. 0.17

Conductor Ampacity Chart (Type SC/PPC Wire)

Cable Size	Ampacity*
#2	190
2/0	300
3/0	350
4/0	405

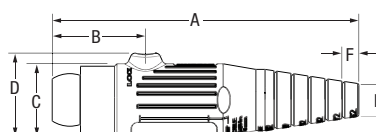
Note: *90°C column NEC Table 400.5(A)(2).

Dimensions

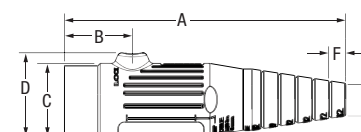
Inlines	A	B	C	D	E	F
Male	6.77" (172.0)	2.06" (52.3)	1.61" (40.9)	1.85" (47.0)	.73" (18.5)	.38" (TYP) (9.7)
Female	6.21" (157.7)	1.50" (38.1)	1.61" (40.9)	1.85" (47.0)	.73" (18.5)	.38" (TYP) (9.7)

Dimensions in Inches (mm)

Inline (Male)



Inline (Female)



Single Pole Devices and Temporary Power

Features and Benefits

Spider® II Temporary Power Boxes

Hubbell's Spider® II temporary power distribution system sets the safety and performance standard for temporary power needs. Construction sites and outdoor events place more demands on electrical power than ever before. Hubbell's Spider box steps up to the challenge by offering advanced electrical and safety features. The Spider II box incorporates the most advanced ground fault module technology available in the industry today, ensuring safe and reliable distribution of electrical power for a wide variety of temporary power applications.

Breadth of line and durability, Hubbell manufactures a variety of Spider® II Boxes and temporary power products for both indoor and outdoor power and lighting applications. Hubbell's Spider products incorporate the most innovative wiring devices in the Hubbell Safety-Shroud® Twist-Lock® system. The shrouded Twist-Lock design extends the life of the plug by protecting the blades from abuse and more importantly, the shroud protects the user from arcing.



Housing Design

- Individual GFCI modules
- Gasketed latching receptacle lift covers
- Replaceable legs



Receptacles

- Six 20 amp straight blade or Twist-Lock® watertight receptacles, individually GFCI protected
- All Pin and Sleeve, Twist-Lock® and straight blade receptacles on each Spider box are protected when not in use by a gasketed, spring loaded flip lid



Safety

- Standard stab termination circuit breakers with gasketed lift cover
- Compact electronic supervisory circuit
- Detailed wiring diagram



Inlets

- Available with flush 50 amp Twist-Lock® inlet or 60 amp IEC reversed service Pin and Sleeve receptacle



Environmental Protection

- Spider® II boxes have earned a Type 3R metallic enclosure rating and heavy duty, abuse resistant legs for outdoor rainproof applications
- Provides UL Type 4X rating when the receptacles are used with Watertight Safety-Shroud® Twist-Lock® plugs



Certifications

- Hubbell's Spider® II Boxes meet NEC® requirements for personal protection against electrical shock on job sites and are listed to the latest UL1640 standard for portable power distribution equipment

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

Single Pole Devices and Temporary Power

50A and 60A Spider® II Boxes



50A Spider® II



60A Spider® II



60A Class "L" Spider® II

Spider® II Temporary Power Boxes

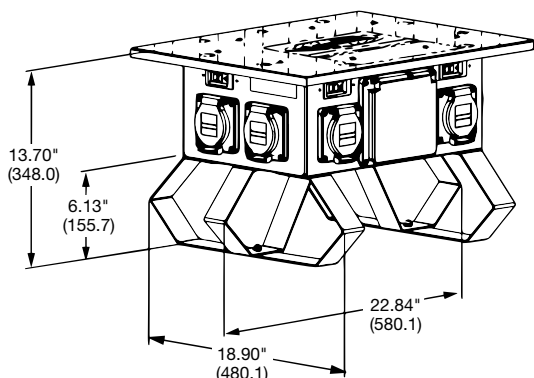
Rating	Type	Qty	Receptacle Ratings	Receptacle Components	Protection		Catalog Number
					Overload	GFI	
30A, 120/240V AC (Maximum)	Straight Blade	7	20A, 125V	HBL53R61	Yes	Yes	SDSB1A
	Twist-Lock® (inlet)	1	30A, 120/240V	HBL2715SWR	No	No	
	Twist-Lock® (outlet)	1	30A, 120/240V	HBL2710	No	No	
50A, 120/240V AC (Maximum)	Straight Blade	7	20A, 125V	HBL53R61	Yes	Yes	SBSB1A
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
50A, 120/240V AC (Maximum)	Straight Blade	6	20A, 125V	HBL53R61	Yes	Yes	SBSB2
	Twist-Lock®	1	30A, 250V	HBL2620SW	Yes	Yes	
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
50A, 120/240V AC (Maximum)	Twist-Lock®	7	20A, 125V	HBL2310SW	Yes	Yes	SBTL1A
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
50A, 120/240V AC (Maximum)	Twist-Lock®	6	20A, 125V	HBL2310SW	Yes	Yes	SBTL2
	Twist-Lock®	1	30A, 250V	HBL2620SW	Yes	Yes	
	Twist-Lock® (inlet)	1	50A, 125/250V	HBL6375S	No	No	
	Twist-Lock® (outlet)	1	50A, 125/250V	CS6369	No	No	
60A, 3Ø 120/208V AC (Maximum)	Straight Blade	6	20A, 125V	HBL53R61	Yes	Yes	SCSB0*
	Pin and Sleeve (inlet)	1	60A, 3ØY 120/208V	HBL560B9R	No	No	
	Pin and Sleeve (outlet)	1	60A, 3ØY 120/208V	HBL560R9W	No	No	
60A, 3Ø 120/208V AC (Maximum)	Twist-Lock®	6	20A, 125V	HBL2310SW	Yes	Yes	SCTL0*
	Pin and Sleeve (inlet)	1	60A, 3ØY 120/208V	HBL560B9R	No	No	
	Pin and Sleeve (outlet)	1	60A, 3ØY 120/208V	HBL560R9W	No	No	

Class "L" Spider® II Temporary Power Boxes

Rating	Type	Qty	Receptacle Ratings	Receptacle Components	Protection		Catalog Number
					Overload	GFI	
60A, 3Ø 120/208V AC (Maximum)	Straight Blade	6	20A, 125V	HBL53R61	Yes	Yes**	SCSB0M2
	Class "L" (inlet)	1	60A, 3ØY, 120/208V	—	No	No	
	Class "L" (outlet)	1	60A, 3ØY, 120/208V	—	No	No	
60A, 3Ø 120/208V AC (Maximum)	Twist-Lock®	6	20A, 125V	HBL2310SW	Yes	Yes**	SCTL0M2
	Class "L" (inlet)	1	60A, 3ØY, 120/208V	—	No	No	
	Class "L" (outlet)	1	60A, 3ØY, 120/208V	—	No	No	

Note: *60A units are UL and cUL only.
**GFCI protection on 4 devices only.

Dimensions



Dimensions in Inches (mm)

Specifications

Spider® II

Listing/Certification	UL1640 cUL and CSA, UL943
Environment	Indoor and outdoor wet and dry locations
Enclosure Type	3R, rainproof, suitable for use in damp locations
Code Compliance	NEC®, ANSI/NFPA 70

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

Single Pole Devices and Temporary Power

Features and Benefits

Temporary Power Accessories

Hubbell's SR50 is comprised of a pre-wired 50A receptacle, mounted in a fully non-metallic watertight FD wall box.

This weather resistant, UL listed, assembly provides significant labor savings for the contractor, because it's pre-wired with a 50A Twist-Lock® receptacle, installation time is significantly reduced. The 4 hole mounting pattern of the new FD box also provides added security for the device.



Cable Sets and Receptacles

Description	Catalog Number
50A pre-wired wall mounted receptacle, with 2 ft. wire leads.	SR50
50A cord set - 50 ft. cable (input/output).	SCB50
50A cord set - 100 ft. cable (input/output).	SCB100
60A cord set - 6 ft. cable (input/output).	SCC06
60A cord set - 50 ft. cable (input/output).	SCC50
60A, 3Ø 120/208V Pin and Sleeve wall mounted receptacle.	HBL560R9W
1¼" hub 15 deg. non-metallic angle back box for 60A receptacle.	BB601W
1½" hub 15 deg. metallic 4-way angle back box for 60A receptacle.	FW60100

Note: Consult factory for alternate cable lengths.



SR50

Replacement Parts

Description	Catalog Number
20A, 125V straight blade receptacle.	HBL53R61
20A, 125V Safety-Shroud Twist-Lock® receptacle.	HBL2310SW
30A, 250V Safety-Shroud Twist-Lock® receptacle.	HBL2620SW
30A, 125/250V Reverse Service Safety-Shroud connector.	HBL2713SR
30A, 125/250V Reverse Service inlet.	HBL2715SWR
50A, 125/250V Twist-Lock® receptacle.	CS6369
50A, 125/250V Twist-Lock® inlet.	HBL6375S
60A, 3Ø 120/208V Pin and Sleeve reversed service receptacle (inlet).	HBL560B9R
60A, 3Ø 120/208V Pin and Sleeve receptacle (outlet).	HBL560R9W
60A, 3Ø 120/208V Pin and Sleeve reversed service plug (female).	HBL560P9WR
60A, 3Ø 120/208V Pin and Sleeve plug (male).	HBL560P9W
GFCI module.	GFM20
50A Spider supervisory kit.	SSK
60A Spider supervisory kit.	SSK60
Spider circuit breaker cover.	SCBC
Spider leg kit.	SLK
Spider leg kit, green.	SLKG
50A receptacle cover plate.	HBL77CM74WO



SCB50



HBL560R9W



HBL2310SW



SCBC



GFM20



SSK



HBL77CM74WO



CS6369



HBL2713SR

Single Pole Devices and Temporary Power

Features and Benefits

Temporary Power Distribution Boxes and Temporary Power Cables

- Durable hi-visibility yellow powder coated steel construction
- Hubbell 50 amp Twist-Lock® receptacle and inlet
- Six 20 amp straight blade or Twist-Lock® covered receptacles
- Individual GFCI modules
- NEMA 3R enclosure
- Nesting leg design saves space in the warehouse and on the truck



TPDL – Twist-Lock®
TPDS – Straight Blade



TPC50 – 50' Cable
TPC100 – 100' Cable



HBLCGFM20

Temporary Power Distribution Boxes

Rating	Type	Qty	Receptacle Rating	Protection		Catalog Number
				Overload	GFI	
50A, 120/240V AC (Maximum)	Twist-Lock®	6	20A, 125V	Yes	Yes	TPDL
	Twist-Lock®	1	30A, 250V	Yes	No	
	Twist-Lock® (Inlet)	1	50A, 125/250V	No	No	
	Twist-Lock® (Outlet)	1	50A, 125/250V	No	No	
50A, 120/240V AC (Maximum)	Straight Blade	6	20A, 125V	Yes	Yes	TPDS
	Twist-Lock®	1	30A, 250V	Yes	No	
	Twist-Lock® (Inlet)	1	50A, 125/250V	No	No	
	Twist-Lock® (Outlet)	1	50A, 125/250V	No	No	
Replacement GFCI module.						HBLCGFM20

Temporary Power Cables

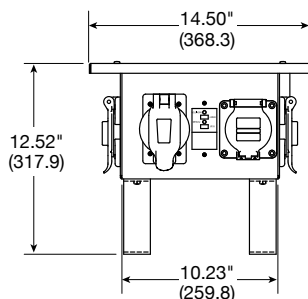
Rating	CableType	Length	Male Device	Female Device	Weatherproof	Catalog Number
					Boot	
50A, 125/250V	6/3, 8/1	50 ft.	CS6365L	CS6364L	No	TPC50
50A, 125/250V	6/3, 8/1	100 ft.	CS6365L	CS6364L	No	TPC100

Specifications

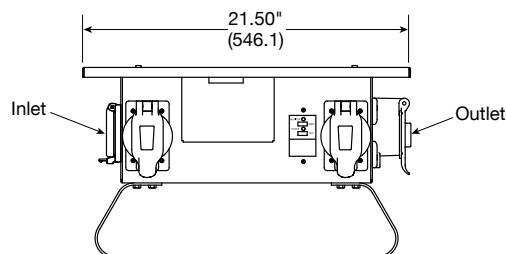
Boxes	
Listings/Certifications	UL1640, UL943
Operation	Indoor and outdoor wet and dry locations
Enclosure Type	3R, rainproof, suitable for use in damp locations
Code Compliance	NEC®, ANSI/NFPA 70

Cables	
Listings/Certifications	Connectors: UL/CSA; Cable: MSHA
Operation	Indoor and outdoor wet and dry locations

Dimensions



Dimensions in Inches (mm)



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

Heavy-Duty Portable Outlet Boxes and Cover Plates

Description	Catalog Number
Box with cord strain relief, with one blank cover plate.	HBLPOB1
Box with cord strain relief, with one blank cover plate, black.	HBLPOB1BK
Box with cord strain relief, with two duplex (indoor) cover plates.	HBLPOB1D
Box with cord strain relief, with two duplex (indoor), yellow cover plates.	HBLPOB1DY
Blank, non-metallic FS cover plate with foam gasket, gray.	HBLP14FS
Duplex, non-metallic FS cover plate, gray.	HBLP8FS
Duplex, non-metallic FS cover plate, yellow.	HBLP8FSY
Single receptacle (1.39"), non-metallic FS cover plate, gray.	HBLP7FS
Single receptacle (1.56"), non-metallic FS cover plate, gray.	HBLP720FS
Rectangular opening, non-metallic FS cover plate, gray.	HBLP26FS



HBLPOB1

Other Cover Plates and Devices

which may be used with Heavy-Duty Portable Outlet Boxes

Description	Catalog Number
Duplex cover plate, weatherproof.	HBL5221, HBL52CM21
Single receptacle (1.39") cover plate, weatherproof.	HBL7423WO, HBL74CM23WO
Single receptacle (1.56") cover plate, weatherproof.	HBL7425WOA, HBL74CM25WOA
Safety-Shroud Twist-Lock® surface receptacles.	HBL2310SR, HBL2320SR, HBL2330SR, HBL2610SR, HBL2620SR



Cover Plates

Note: Standard product gray, CM yellow.

Deluxe Cord Grips Straight Male Thread Nylon Fittings, Stainless Steel Mesh, Liquidtight, for Insulated Cables

Grip Diameter Range Inches (mm)	Thread Size NPT (inches)	Form Size	Catalog Number
.375"-.500" (9.5-12.7)	3/4"	F3	074011335
.500"-.625" (12.7-15.9)	3/4"	F3	074011336
.625"-.750" (15.9-19.0)	3/4"	F3	074011337

Gray Nylon Cord Connector Straight Male Thread

Grip Diameter Range Inches (mm)	Thread Size NPT (inches)	Form Size	Catalog Number
.375"-.500" (9.5-12.7)	3/4"	F3	SHC1035CR
.500"-.625" (12.7-15.9)	3/4"	F3	SHC1036CR
.625"-.750" (15.9-19.0)	3/4"	F3	SHC1037CR



Deluxe Cord Grips (purchased separately)

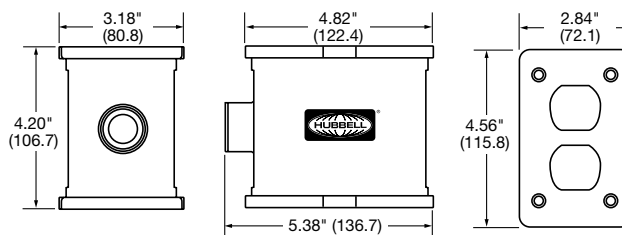
Specifications for Heavy-Duty Portable Outlet Boxes and Cover Plates

UL Listed	UL514C, UL467 and UL50 Enclosures Types 1, 3R.
CSA Certified	C22.2 No. 18 and C22.2 No. 94 Enclosures Types 1, 3R and C22.2 No. 0.4 (Impedance).
Box Specifications:	
Moisture Resistance	Wet and damp locations, enclosure Type 3R when used with weatherproof cover plates; Dry, indoors locations, enclosure Type 1 with all other cover plates
Flammability	UL94V-0, 94-5VA classification
Operating Temperature	80°C maximum; -35°C minimum
UV Resistance	All materials are UV stabilized
Impact and Crush Resistance	In accordance with UL514C, UL50, C22.2 No. 18 and C22.2 No. 94
Material	Valox®
Cord Connector Materials	Nylon nut; nylon Gotcha® ring; neoprene grommet
Cord Diameter Range	.38" to .75" diameter
Bonding Strap Material	Brass
Threaded Inserts	Brass
Grounding Screw Material	Brass
Indoor Cover Plate Screws Material	Zinc plated steel
Outdoor Cover Plate Screws Material	Stainless steel
Cover Plate Gasket Material	UL recognized closed-cell foam (aging and oil resistant)



Gray Nylon Cord Connector

Dimensions



HBLPOB1

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

Dimensions in Inches (mm)

Single Pole Devices and Temporary Power

Construction Site Lighting

Hubbell's outdoor approved construction site lighting line includes both heavy duty metal halide lights and light strings for working in rugged environments. The metal halide fixtures feature extremely strong and compact heads with bulbs rated to last 10,000 hours. All frames are powder-coated yellow for safety and are constructed of a durable 1.25 inch, 12 gauge steel tube.

We have light strings for all applications in a variety of models as well as a choice of metal or plastic guards. Light sockets are spaced 10 feet apart and all sockets, plugs, and connectors are molded for added durability. In addition, the highly impact-resistant material makes for easy transportation and storage when not in use. Bulbs can be incandescent, fluorescent or LED. Consider choosing LED lighting for a durable bulb that saves energy, provides instant illumination and are rated to last 50,000 hours.



HBLMH1000

Metal Halide and LED Lights

Description	Rating	Watts	Lumen Output	Cord Length	Catalog Number
5 -10 ft. metal halide cart light with portable detachable ballast.	15A 125V	1,000	110,000	—	HBLMH1000
6 -12 ft. metal halide cart light.	15A 125V	2,000	220,000	—	HBLMH2000
High bay metal halide light with wire guard.	15A 125V	400	29,000	3 ft.	HBLMH400
High bay LED light with wire guard.	15A 125V	120	14,000	5 ft.	HBLLEDHB120
	15A 125V	100	12,000	5 ft.	HBLLEDHB100
	15A 125V	60	7,200	5 ft.	HBLLEDHB60



HBLMH400

LED Stringer Lights

Description	No. of Fixtures	Rating	Cord Type	Lumen Output	Cord Length	Catalog Number
90 LEDs per fixture, light string with magnetic base included.	1	15A 125V	#18/2 SJTW	450*	20 ft.	HBL182S20LED
90 LEDs per fixture, light string.	5	15A 125V	#18/2 SJTW	450*	50 ft.	HBL182S50LED
	10	15A 125V	#18/2 SJTW	450*	100 ft.	HBL182S100LED
60 LEDs per fixture, light string with magnetic base included.	1	15A 125V	#18/2 SJTW	1,100*	20 ft.	HBL182S20LEDH
	5	15A 125V	#18/2 SJTW	1,100*	50 ft.	HBL182S50LEDH
28W High power LED light string with inline ON/OFF switch.	—	15A 125V	#16 AWG SJTOW	2,928	6 ft.	HBL182S2834
Magnetic clip bracket for LED light string.						HBLSTMC

Note: *Lumens per fixture.



HBLLEDHB120

A Type (Edison) Twist-Lock® and Straight Blade Light Strings

Description	Max Watts**	Rating	Cord Type	Fixtures	Cord Length	Catalog Number
Twist-Lock® light string; plastic guards.	150	20A 125V	#12/3 STW	10	100 ft.	HBL123S100PT
	150	20A 125V	#12/3 STJW	10	100 ft.	HBL123SJ100PT
Twist-Lock® light string; metal guards.	150	20A 125V	#12/3 STW	10	100 ft.	HBL123S100MT
Straight Blade light string; plastic guards.	150	15A 125V	#14/2 STJW	10	100 ft.	HBL142SJ100PS
	150	15A 125V	#14/3 STJW	10	100 ft.	HBL143SJ100PS
Straight Blade light string; metal guards.	150	15A 125V	#12/3 STW	10	100 ft.	HBL123S100PS
	150	15A 125V	#12/3 STJW	10	100 ft.	HBL123SJ100PS
Straight Blade light string; metal guards.	150	15A 125V	#12/3 STW	10	100 ft.	HBL123S100MS
Straight Blade light string; plastic guards.	150	15A 125V	#12/3 STW	5	50 ft.	HBL123S50PS
Straight Blade light string; metal guards.	150	15A 125V	#12/3 STW	5	50 ft.	HBL123S50MS
Replacement plastic guard for temporary light strings.						HBLSTPG
Replacement heavy duty metal guard for temporary light strings.						HBLSTMG

Note: **Max watts per fixture. **HBL143SJ100PS** light strings are rated for 1875 Watts total. The total wattage must be considered when daisy chaining lights strings to each other.

HBL123S100PT



HBL182S50LEDH



HBL143SJ100PS

Fluorescent Light Strings

Description	Wattage	Rating	Cord Type	Lumen Output	Cord Length	Catalog Number
Fluorescent light string, 34.5" single fixture with hanging straps	50	15A 125V	#16 AWG SJTOW	3,750	6 ft.	HBLFS5035
Fluorescent light string, 48.5" single fixture with hanging straps	25	15A 125V	#16 AWG SJTOW	2,125	6 ft.	HBLFS2549



HBLFS2549
Straps not Shown

Single Pole Devices and Temporary Power

LED Maintenance Worklights

Description	Outlet Rating	Rating	Wattage	Lumen Output	Cord Type	Cord Length	Catalog Number
LED Industrial maintenance light, 1 vertical hanging hook included.	N/A	15A 125V	20	2400	#16/3 SJEOW	25 ft.	HBLML2825L
LED worklight with end light feature.	N/A	15A 125V	9	920/120	#18/2 SJTOW	25 ft.	HBLWL25LED
LED worklight with end light feature and tool tap.	12 Amp	15A 125V	9	920/120	#16/3 SJTOW	25 ft.	HBLWL25LEDT



Fluorescent Maintenance Worklights

Description	Outlet Rating	Rating	Wattage	Lumen Output	Cord Type	Cord Length	Catalog Number
Fluorescent worklight with straight blade plug.	N/A	15A 125V	13	825	#16/3 SJTOW	25 ft.	TW25F1
Fluorescent worklight with Twist-Lock® plug and tool tap.	12 Amp	20A 125V	13	825	#16/3 SJTOW	25 ft.	TW25F2
Fluorescent maintenance light, 34.5 in., one vertical hanging hook included.	N/A	15A 125V	50	3750	#16/3 SJEOW	25 ft.	HBLML5025
Fluorescent maintenance light, 48.5 in.	N/A	15A 125V	25	2125	#16/3 SJEOW	25 ft.	HBLML2525
Fluorescent worklight, 45 in., 2 horizontal plastic hangers, 1 attached metal hanging hook included.	N/A	15A 125V	25	2125	#16/3 SJTOW	25 ft.	HBLWL2525



Accessories and Replacement Items

Description	Catalog Number
Magnetic mounting bracket for ML style lights, 82 lb. capacity.	HBLMLMM
Magnetic mounting bracket for WL style lights, 58 lb. capacity.	HBLWLMM
Replacement rough service fluorescent bulb for 13 watt style lamps.	HBLREPPFB
Metal halide replacement bulb, 400 watts.	HBLREP400MH
Metal halide replacement bulb, 1,000 watts.	HBLREP1000MH
Replacement LED panel fixture, 90 LEDs, 450 lumen.	HBLREP450LED
5 base LED string only, 50 ft., 18/2.	HBLREP182S50
10 base LED string only, 100 ft., 18/2.	HBLREP182S100



Explosion Proof/Confined Space Lighting

Hazardous Location Lights

Description	Wattage	Lumen Output	Cord Type	Cord Length	Catalog Number
Fluorescent, Class 1, Div 1 Groups C & D, Class 2, Div 1 Groups F & G, 12V, inline transformer.	26	1800	#16/3 SOW	60 ft.	HBLXF6012V
Incandescent, Class 1, Div 1, Groups C & D, 12V, inline transformer.	75	720	#16/3 SOW	60 ft.	HBLXI6012V
Fluorescent, Class 1, Div 1 Groups C & D, Class 2, Div 1 Groups F & G, 120V, less plug.	26	1800	#16/3 SOW	50 ft.	HBLXF50120V
Incandescent, Class 1, Div 1 Groups C & D, 120V less plug.	100	1230	#16/3 SOW	50 ft.	HBLXI50120V
Fluorescent, non-explosion proof, wet location, 12V, inline transformer.	13	825	#18/2 SJTOW	60 ft.	HBLWT6012V



Single Pole Devices and Temporary Power

Pre-Wired Portable Outlet Boxes, Worklights and Accessories



SPB1

Pre-Wired Portable Outlet Boxes

Description	Catalog Number
25 ft. with 2-15A, 125V, straight blade single receptacles and 1-15A, 125V straight blade plug and boot.	SPB1
25 ft. with 2-20A, 125V, Twist-Lock® single receptacles and 1-20A, 125V Twist-Lock® plug and boot.	SPB2



SPB2

Worklights and Accessories

Description	Catalog Number
Temporary low voltage worklight with cigarette lighter plug, 20 ft. cord.	TWLV20F
Non-metallic temporary worklight hook.	TWH

Specifications

Temporary Worklights

Listing/Certification	UL298 and cUL portable electric hand lamps
Environment	Dry, indoor locations
Fluorescent Lamp	13 watt twin tube only

Battery Pack and Charger

Environment	Indoor and outdoor dry locations
Fluorescent Lamp Life	Fully charged-5 hour approx
Charge Time	Fully charged-16 hours approx
Battery Rating	12 volt

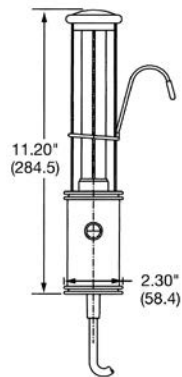


TWLV20F

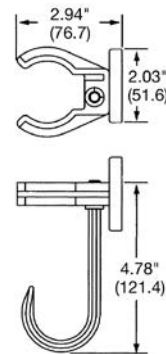


TWH

Light Fixture



Worklight Hook



Dimensions in Inches (mm)

Stage Pin Devices

Features and Benefits



20, 60 & 100 Amp Stage Pin Devices

Drawing on over a hundred years of expertise, Hubbell Wiring Device-Kellems sets the standard for innovation, performance, durability, safety and convenience. Our philosophy is never leaving well enough alone. We believe we can always make our products better—and the record shows we have.

When it comes to stage pin products, we listened...

The result is a removable sleeve that is highly heat stable and heat resistant. It does not allow the heat generated at the connection to negatively impact the device. Like phenolic devices of the past, this modern innovation will provide for a cool running device that is simple and convenient to wire.

The super tough engineered thermoplastic enclosure makes the device:

- Lightweight
- Impact resistant
- Easy to handle



Male Inline
(Open to Show Contacts)

Our design delivers 'The Best of Both Worlds!'



Housing Design

- Durable thermoplastic construction is lightweight, highly durable thermoplastic body for maximum impact resistance
- Ergonomic shape for easy insertion and withdrawal from mating devices



Contacts

- High performance brass contacts provide improved performance and extended life by reducing operating temperatures
- Heat resistant sleeves patent pending, highly stable and heat resistant contact shrouds provide phenolic functionality with a modern twist



Safety

- Highly secure terminations, stainless steel double set screws with fine pitch threads maximize termination strength for cooler running connections
- Ring terminal and double set screw termination options are available for 60A and 100A panel mounts



Wiring

- Simplified wiring, with removable contacts that snap back into place for greater wiring flexibility and simplicity
- Adjustable strain relief, accommodates the widest range of cables all in one device while exceeding UL requirements

Single Cable Sets and Breakouts in One Device

Device	Cable Combination	Device	Cable Combination
60A/125V	(3) #6 SC	100A/125V	(2) #4 SC
	(6) #6 SC		(4) #4 SC
	(2) #4 SC		(2) #6 SC
	(1) #6 SC		(1) #6 SC
	#8/3 TYPE W		(2) #2 SC
	#6/3 SOOW		#6/3 AWG TYPE W
#4/3 TYPE W	#4/3 AWG TYPE W		





20 Amp Stage Pin Devices

Description	Voltage	Termination	Color	Catalog Number
Male Inline	125V	Double Set Screw	Black	HBL20SPM
Male Inline Bulk Pack			Black	HBL20SPMOEM
Male Inline			Clear	HBL20SPMC
Female Inline	125V	Double Set Screw	Black	HBL20SPF
Female Inline Bulk Pack			Black	HBL20SPFOEM
Female Inline			Clear	HBL20SPFC
Male Panel Mount (Inlet)	125V	Double Set Screw	Black	HBL20SPMR
Female Panel Mount				HBL20SPFR



60 Amp Stage Pin Devices

Description	Voltage	Termination	Color	Catalog Number
Male Inline	125V	Double Set Screw	Black	HBL60SPM
Female Inline				HBL60SPF
Male Panel Mount	125V	Double Set Screw Ring Terminal	Black	HBL60SPMR HBL60SPMRRT
Female Panel Mount	125V	Double Set Screw Ring Terminal	Black	HBL60SPFR HBL60SPFRRT



100 Amp Stage Pin Devices

Description	Voltage	Termination	Color	Catalog Number
Male Inline	125V	Double Set Screw	Black	HBL100SPM
Female Inline				HBL100SPF
Male Panel Mount	125V	Double Set Screw Ring Terminal	Black	HBL100SPMR HBL100SPMRRT
Female Panel Mount	125V	Double Set Screw Ring Terminal	Black	HBL100SPFR HBL100SPFRRT
Male Inline	250V	Double Set Screw	Yellow	HBL106SPM
Female Inline				HBL106SPF
Male Panel Mount	250V	Double Set Screw Ring Terminal	Yellow	HBL106SPMR HBL106SPMRRT
Female Panel Mount	250V	Double Set Screw Ring Terminal	Yellow	HBL106SPFR HBL106SPFRRT



Convention Center Pin and Sleeve Devices

Features and Benefits

Convention Center Pin and Sleeve Devices

Hubbell's newest offering of 60A, 4P 5W, 277/480V AC, pin and sleeve devices are specifically designed and built to meet the demanding needs of Convention Centers and provide reliable performance for power distribution.

These devices are certified to UL 1682 & UL 2305, with a light-weight, low profile, polycarbonate construction, that mate with the current installed base, and are able to accept both round and flat cable.



Housing Design

- Manufactured in a durable light-weight polycarbonate construction to withstand heavy impact
- Full Line: Plug, Connector, Receptacle, and Inlet
- 60A, 4P 5W, 277/480V AC



Contacts

- Brass pins to maximize conductivity



Safety

- First to mate and last to break ground pin
- Mates with existing installed base



Wiring

- Single device that accepts both round and flat cable

Convention Center Pin and Sleeve Devices



HBL5607P

Convention Center Pin and Sleeve Devices

Description	Catalog Number
Pin and Sleeve, 4P 5W, 60A 277/480V AC, Plug	HBL5607P
Pin and Sleeve, 4P 5W, 60A 277/480V AC, Connector	HBL5607C
Pin and Sleeve, 4P 5W, 60A 277/480V AC, Inlet	HBL5607B
Pin and Sleeve, 4P 5W, 60A 277/480V AC, Receptacle	HBL5607R



HBL5607C

Specifications

Pole/Wire Configuration	4-pole, 5-wire grounding
Voltage Rating	60A, 277/480V AC
Material	Polycarbonate
Contacts	Brass



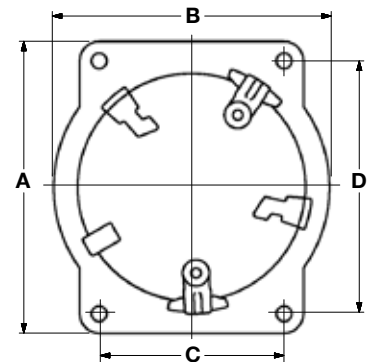
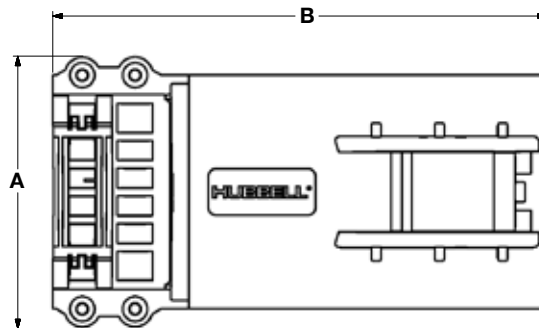
HBL5607B

Product Dimensions Inches (mm)

Catalog Number	A	B	C	D
HBL5607P	6.36" (161.5)	3.46" (87.9)	—	—
HBL5607C	6.49" (164.8)	3.46" (87.9)	—	—
HBL5607B	3.75" (95.3)	3.37" (85.5)	2.38" (60.3)	3.25" (82.6)
HBL5607R	3.75" (95.3)	3.54" (89.9)	2.38" (60.3)	3.25" (82.6)



HBL5607R



SECTION I

Table of Contents



inSIGHT™ Data Monitoring



Asset Monitoring



Product	Page
inSIGHT™ Data Monitoring	
Features and Benefits/Ordering Information	I-2
Pin and Sleeve	I-2
Power Cables	I-3
Ethernet Gateway	I-4
Environmental Monitor	I-4
Circuit Monitors	I-5
Technical Information	I-6

Product	Page
Asset Monitoring – RFID Enabled Wiring Devices	
Features and Benefits	I-8
Ordering Information	I-9
Insulgrip® Twist-Lock® Kits and Pin and Sleeve Kits	
Series 16 Single Pole Devices	
Series 16 Replacement Bodies	
Additional Information	I-10

Intelligent Wiring Solutions

Features and Benefits

inSIGHT™ Data Monitoring – Pin and Sleeve

Hubbell's Data Monitoring products predicts costly downtime on critical equipment before it happens by transmitting power utilization at point of use.

Hubbell's wireless monitor technology tracks performance indicators including:

- Current
- Voltage
- Power
- Internal device temperature
- Utility, billable grade metering
- Data trending

Intelligence is embedded into a standard Hubbell IEC Pin and Sleeve Device, not visible to users and compatible with any like rated IEC Pin and Sleeve. The wireless mesh network and gateway makes system commissioning and reconfiguration seamless by automatically recognizing new nodes without additional programming.



Technology

- Monitor power at point of use
- All technology is integrated within the device
- Additional nodes connect automatically to the closest node in the network



Communications

- Wireless protocol, self configuring, load balancing mesh network
- Adjacent networks operate independently without data crossing over
- System is easy to install and self configures once powered up



Existing Devices

- Mates to IEC 60309 devices with compatible rating
- UL witnessed IP69k and UL Type 4X and 12. Built to withstand wet and harsh environments



Housing Design

- Self-closing gasketed cover
- Super tough insulated non-metallic housing
- Sequential contact engagement to prevent a momentary over-voltage
- Multi contact spring provides and maintains high unit pressure on mating pins to minimize temperature rise



inSIGHT™ Data Monitoring Pin and Sleeve Devices

Amps	Poles/Wires	Configuration	AC Voltage	Device	Radio Zone 1	Radio Zone 2
60	3P/4W			Receptacle	HBL460R7WDMUS1	HBL460R7WDMUS2
				Connector	HBL460C7WDMUS1	HBL460C7WDMUS2
60	3P/4W			Receptacle	HBL460R9WDMUS1	HBL460R9WDMUS2
				Connector	HBL460C9WDMUS1	HBL460C9WDMUS2

Intelligent Wiring Solutions

Features and Benefits

inSIGHT™ Data Monitoring – Power Cables

Hubbell's Power monitoring cables provide quick plug and play monitoring directly at point of use. The pre-wired monitor transmits power usage directly to a central Gateway without the need for complicated system configuration. Power cables are available in standard amperage and voltage configurations, both single and 3 phase, typically utilized in most Industrial and Data Center facilities.



Power Monitor

- Pre-wired monitor allows for easy plug and play connection
- Monitor measures current and voltage directly at point of usage



Power Cables

- Available in "SG" single phase and "RG" three phase configurations
- Available in 20A, 30A/32A and 50A

Smart Power Cables

Description		Catalog Number
NEMA Smart Power Cable	Single Phase	20A, 120V AC
		20A, 240V AC
		30A, 240V AC
Smart Power Cable	3 Phase	30A, 120/208V AC
		50A, 240V AC
IEC Smart Power Cable	3 Phase	32A, 240/415V AC



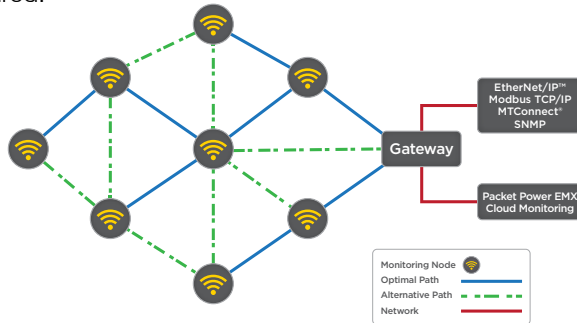
Intelligent Wiring Solutions

Features and Benefits

Data Monitoring Ethernet Gateways

Hubbell's Ethernet Gateways gather data from all inSIGHT™ data monitoring devices and are the connection point from the wireless to the wired. Data received from monitoring devices is transferred to the users front end dashboard for visual and historical analysis.

Hubbell's wireless mesh network allows for easy installation and implementation. This self adaptive and self communicative technology ensures all data is effectively transmitted back to the gateway. No need to run and connect cables throughout your facility, gateway is hardwired.



Technology

- LCD for status and configuration. LED for general device status
- Wireless firmware updates
- Numerous firmware versions available



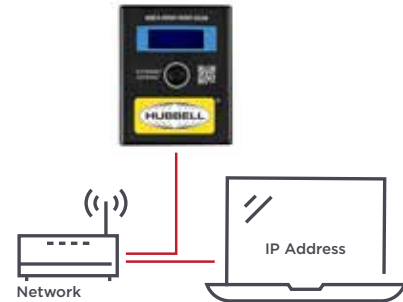
Communications

- 860 to 930 MHz and 2.4 GHz. Frequency varies by region
- Typical transmission range, up to 30 meters between any 2 devices in mesh network
- Up to 150 monitoring units per gateway



Housing Design

- Compatible with all Hubbell monitoring units
- Fully enclosed antenna
- NEMA enclosure Type 1, indoor use



Ethernet Gateways

Description	# of Nodes	Radio Zone 1	Radio Zone 2
EMX Gateway	30	HBLGW04000LUS1	HBLGW04000LUS2
	150	HBLGW04000EUS1	HBLGW04000EUS2
Modbus TCP/IP Gateway	30	HBLGW0400MLUS1	HBLGW0400MLUS2
	150	HBLGW0400MEUS1	HBLGW0400MEUS2
SNMP Gateway	30	HBLGW0400SLUS1	HBLGW0400SLUS2
	150	HBLGW0400SEUS1	HBLGW0400SEUS2
Ethernet/IP Gateway	30	HBLGW0400ELUS1	HBLGW0400ELUS2
	150	HBLGW0400EEUS1	HBLGW0400EEUS2
MT Connect Gateway	30	HBLGW040MTLUS1	HBLGW040MTLUS2
	150	HBLGW040MTEUS1	HBLGW040MTEUS2

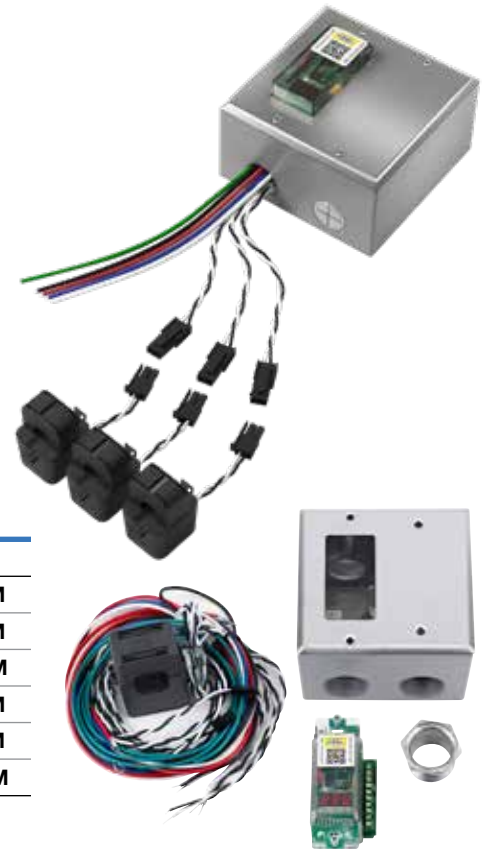


Intelligent Wiring Solutions

Features and Benefits

Data Monitoring Circuit Monitors

Hubbell's Circuit Monitors provide a means to monitor single and three phase circuits in pre-configured enclosure kits. These devices support 38 – 480 Amp applications and connect automatically to Hubbell's self configuring wireless mesh network. These systems allow for easy installation, with split core current transformers that can connect to existing circuits without the need to disconnect power. This real time monitor can help analyze power consumption, balanced loads, cost allocation, and history trends.



Circuit Monitors

Description		Catalog Number	
10MM	Single Phase	38A, 240V AC	HBLPG003S00010MM
		63A, 240V AC	HBLPG006S00010MM
Split Core Circuit Monitor	3 Phase Wye	38A, 480V AC	HBLPG003Y0H010MM
	3 Phase Delta	120A, 240V AC	HBLPG010D00016MM
	3 Phase Wye	240A, 120/208V-240/415V AC	HBLPG020Y00024MM
	3 Phase Delta	480A, 240V AC	HBLPG040D00036MM

Data Monitoring Environmental Monitors

Hubbell's Environmental Monitors can accommodate up to six external temperature probes up to 4 meters in length. Relative humidity sensing, internal to the device, is also available in this Hubbell model. These monitors are part of the same wireless mesh network that other power meters are part of, and communicate directly with the Hubbell Gateway. Each gateway can accept data from up to 150 nodes.



Technology

- LCD for status and configuration. Internal relative humidity sensing
- Wireless firmware updates
- Wireless network protocol - Self configuring, load balancing mesh network



Housing Design

- Local LCD display on HBLE306 models
- Fully enclosed, fixed configuration
- NEMA enclosure Type 1, indoor use

Environmental Monitors

Description		Catalog Number	
Environmental Monitor		HBLE306H000	
Temperature Probe	1 meter	HBLTPP3001M	
	2 meters	HBLTPP3002M	
	3 meters	HBLTPP3003M	
	4 meters	HBLTPP3004M	



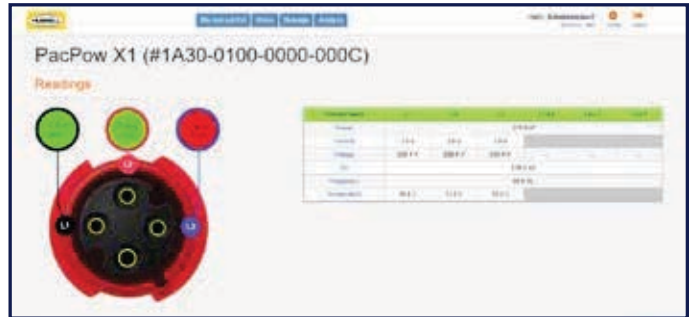
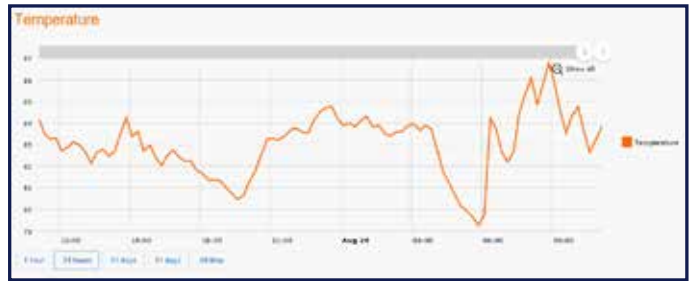
Intelligent Wiring Solutions



Compatible Industrial Protocols

EMX MT Connect
 Ethernet/IP SNMP
 Modbus TCP/IP

Software packages are available upon request, or any customer supplied BMS or DCIM software can be used. Full SNMP and Modbus TCP/IP communication is provided by the gateway. Cloud-based service or local software options are available. Programmable data thresholds can be preconfigured to alert users when outputs fall outside of range parameters. Text or email alerts can be sent directly to the responsible party.



Historical data is stored in the software and can be viewed by varying time intervals, such as by month, day or hour. This gives the customer insight to what the power demand, temperature and current have been, and if they have changed over time.

Dashboard displays data sent by the device through the gateway. This example shows one phase of the connector heating up.

Pin and Sleeve - Technical Specifications

Communications

Operating frequency	860 to 930 MHz and 2.4 GHz. Frequency varies by region
Wireless protocol	Self configuring, load balancing mesh network
Wired network protocol	Ethernet with various protocols available
Firmware updates	Wireless
Typical transmission range	Up to 30 meters between any 2 devices in mesh network
Antenna	Fully enclosed
Monitoring unit to gateway ratio	Up to 150 monitoring units per gateway
Gateways per site	Unlimited
Multi-site support	Yes
Encryption	AES 128-bit
Compatible devices	All Hubbell monitoring units

Measurement

Measurements	V, A, W, PF, Temp
Accuracy	+/- 1.0%
Voltage	250 - 480V AC
Current range	Up to 60A
Circuit types	Three phase

Intelligent Wiring Solutions

Technical Information

Ethernet Gateways - Technical Specifications

Communications

Operating frequency	860 to 930 MHz and 2.4 GHz. Frequency varies by region
Wireless protocol	Self configuring, load balancing mesh network
Wired network protocol	Ethernet with various protocols available
Firmware updates	Wireless
Typical transmission range	Up to 30 meters between any 2 devices in mesh network
Antenna	Fully enclosed
Monitoring unit to gateway ratio	Up to 150 monitoring units per gateway
Gateways per site	Unlimited
Multi-site support	Yes
Encryption	AES 128-bit
Compatible devices	All Hubbell monitoring units
Local display	LCD for status and configuration. LED for general device status

Environmental & Mechanical

Operating temperature	32 to 104F (0 to 40C)
Operating humidity	10 to 90% non-condensing
Environmental rating	NEMA enclosure type 1, indoor use
Mounting options	Din rail, screw, cable tie
External power supply	100 to 240V AC input, 50/60 Hz (5V DC) output
Plug types	C14, NEMA 5-15
Power consumption	3W
PoE (Power over Ethernet)	Requires an external PoE splitter
Certifications	FCC, IC, CE

Power Cables - Technical Specifications

Communications

Operating frequency	860 to 930 MHz and 2.4 GHz. Frequency varies by region
Wireless protocol	Self configuring, load balancing mesh network
Wired network protocol	Ethernet with various protocols available
Firmware updates	Wireless
Typical transmission range	Up to 30 meters between any 2 devices in mesh network
Antenna	Fully enclosed
Monitoring unit to gateway ratio	Up to 150 monitoring units per gateway
Gateways per site	Unlimited
Multi-site support	Yes
Encryption	AES 128-bit
Compatible devices	All Hubbell monitoring units
Local display	LCD for status and configuration. LED for general device status

Measurement

Measurements	V, A, W, Wh, VA, Hz, PF
Accuracy	+/- 1.0%
Voltage	100 - 480V AC
Current range	Up to 100A
Circuit types	Single and three phase

Environmental & Mechanical

Operating temperature	20 to 167F (7 to 75C)
Operating humidity	5 to 95% non-condensing
Environmental rating	Not rated
Power consumption	.6W
Certifications	FCC, IC, CE

Circuit and Environmental Monitors - Technical Specifications

Communications

Operating frequency	860 to 930 MHz and 2.4 GHz. Frequency varies by region
Wireless network protocol	Self configuring, load balancing mesh network
Data output (Gateway)	SNMP and Modbus TCP/IP protocols with one IP address needed per Gateway.
Firmware updates	Wireless
Typical transmission range	Up to 30 meters between any 2 devices in mesh network
Antenna	Fully enclosed, fixed configuration
Monitoring unit to gateway ratio	Up to 150 monitoring units per gateway
Multi-site support	Yes
Encryption	AES 128-bit
System Status	Local LCD display on HBLE306 models
Radio certifications	FCC, Industry Canada and CE/IEC

Environmental & Mechanical

Operating temperature	Monitoring unit: 32F to 122F (0 to 50C) Temperature probe: -40 to 194F (-40 to 90C)
Operating humidity	10 to 90% non-condensing
Environmental rating	NEMA enclosure type 1, indoor use
External power supply	100 to 240V AC input, 50/60 Hz (5V DC) output; .5W power consumption
Temperature probes length	1 to 4 meters

Intelligent Wiring Solutions

Features and Benefits

Asset Monitoring - RFID Enabled Wiring Devices

Hubbell's RFID enabled wiring devices allows quick and easy scanning of an entire container without having to handle individual cable sets.

The unique RFID technology is incredibly powerful and accurate. As well, it is integral to the wiring device so it can't easily fall off, get damaged, or be removed.

Combined with a Hubbell recommended middleware solution, integration into inventory management systems is seamless.

Securely Manage and Control Assets with Ease



Housing Design

- Industrial duty, molded-in RFID tags
- Retrofittable to existing wiring devices
- Tags are virtually hidden inside the device



Existing Devices

- Tags are over molded into strain reliefs that can easily be added to existing devices



RFID Technology

- Tag is powerful enough to read through full baskets of cable
- Works with fixed or portable reader options
- Tags cannot fall off or be easily removed



Tracking Software

- Recommended middleware package available
- Track specific attributes, i.e. color and cable length per asset
- Edit asset conditions and other attributes
- Send alerts when asset leaves inventory location



Cord Clamp Kits

- Kits will include cord clamps, screws and inserts where applicable



Series 16 RFID Enabled

- Available as complete devices or replacement bodies

Intelligent Wiring Solutions

Asset Monitoring - RFID Enabled Wiring Devices

RFID Tags are available as a cord clamp kit for Straight Blade, Twist-Lock® and Pin and Sleeve devices. Series 16 Single Pole devices have the RFID tag molded into the body.

- Series 16 Single Pole inline devices (complete device)
- Series 16 replacement bodies
- 15A Insulgrip Straight Blade or Twist-Lock® (cord clamp kit)
- 20A, 30A and 50A Insulgrip® Twist-Lock® (cord clamp kit)
- 60A Pin & Sleeve (cord clamp kit)
- 100A Pin & Sleeve (cord clamp kit)



Colored Cord Clamps available for visible phase and cable length identification

*Other colors available upon request



Insulgrip® Twist-Lock® Kits

Description	Color	Catalog Number
15A & 20A Straight Blade 15A Twist-Lock®	Natural	HBLRFKIT1
3 Wire Twist-Lock®	Natural	HBLRFKIT2
	Blue	HBLRFKIT2BL
	Green	HBLRFKIT2GN
	Brown	HBLRFKIT2BN
4 & 5 Wire Twist-Lock®	Natural	HBLRFKIT3
	Blue	HBLRFKIT3BL
	Green	HBLRFKIT3GN
	Brown	HBLRFKIT3BN
	Orange	HBLRFKIT3O
50 Amp Cord Clamp	Natural	CSRFKIT



Pin and Sleeve Kits

Description	Catalog Number
60A	HBL60RFKIT
100A	HBL100RFKIT

Note: Kits will include cord clamps, screws and inserts where applicable.



Series 16 RFID Enabled Single Pole Devices

Description	Color	Male	Female	
300A	Black	HBLRF300MBK	HBLRF300FBK	
	White	HBLRF300MW	HBLRF300FW	
	Green	HBLRF300MGN	HBLRF300FGN	
	Blue	HBLRF300MBL	HBLRF300FBL	
	Red	HBLRF300MR	HBLRF300FR	
	Brown	HBLRF300MBN	HBLRF300FBN	
	Orange	HBLRF300MO	HBLRF300FO	
	Yellow	HBLRF300MY	HBLRF300FY	
	400A	Black	HBLRF400MBK	HBLRF400FBK
		White	HBLRF400MW	HBLRF400FW
Green		HBLRF400MGN	HBLRF400FGN	
Blue		HBLRF400MBL	HBLRF400FBL	
Red		HBLRF400MR	HBLRF400FR	
Brown		HBLRF400MBN	HBLRF400FBN	
Orange		HBLRF400MO	HBLRF400FO	
Yellow		HBLRF400MY	HBLRF400FY	



Series 16 Replacement Bodies

Description	Color	Male	Female
300A or 400A	Black	HBLRFMBBK	HBLRFFBBK
	White	HBLRFMBW	HBLRFFBW
	Green	HBLRFMBGN	HBLRFFBGN
	Blue	HBLRFMBBL	HBLRFFBBL
	Red	HBLRFMBR	HBLRFFBR
	Brown	HBLRFMBBN	HBLRFFBBN
	Orange	HBLRFMBO	HBLRFFBO
	Yellow	HBLRFMBY	HBLRFFBY

Intelligent Wiring Solutions

Asset Monitoring - Additional Information

Fixed or Portable Reader Options

- Fixed antenna can scan through full baskets of cable sets
- Handheld reader allows for individual or bulk scanning
- Pre-programmed screens allow easy data collection
 - Receive items into inventory
 - Check out items for specific jobs or rental locations
 - Check in items to ensure all assets are accounted for
 - Change status and condition of each asset
- Upload asset information to existing inventory management systems



Note: Reader hardware and software are not sold by Hubbell, but can be purchased by a third party. Please contact a Hubbell representative for more information.

RFID Tags

Hubbell utilizes an industrial grade, passive RFID tag. Passive RFID tags do not require a battery. Radio waves from the reader activate the RFID tag, thus inducing a current in the RFID's antenna. Typical read range can go up to 4 feet from a handheld, to 10 feet from a fixed antenna.

SECTION J

Table of Contents



LINKOSITY®
Power Components



MotorQuick®
Disconnect Switches






DRUB and PANEL-SAFE®



Product	Page	Product	Page
LINKOSITY® Power Components	J-2	DIN Rail Utility Box	J-13
Power Components	J-2	Power and Data	J-13
Control Integration Components	J-3	PANEL-SAFE®	J-14
Power System Distribution Assemblies	J-4	Features and Benefits	J-14
MotorQuick® Disconnect Switches	J-8	Power and Data Access Ports	J-15
CableTrak® Hose and Cable Carrier System	J-9	HI-Impact	J-16
CableTrak® Kit with and without Brackets	J-10	Industrial Ethernet Connector and Harsh Environment Connectors	J-16
Accessories	J-11		
Mounting Options and Specifications	J-12		



Cables and Receptacles - Power Components

Device Type	Ratings	Wires	Conductor Colors**	Length (FT)
 PH = Double Ended Cable with Male/Female Straight PM = Male Single Ended Straight PN = Male Single Ended 90° PF = Female Single Ended Straight PG = Female Single Ended 90° PQ = Double Ended Cable with Female 90° PR = Double Ended Cable with Male 90° PS = Double Ended Cable with (2) 90° Connectors  RF = Female Receptacle*  RM = Male Receptacle (Inlet)*	20 = 20A up to 600V	02 03 04 05	PA = Green/Yellow Black (all others)	001 = 1' 005 = 5' 010 = 10' 015 = 15' 020 = 20' 025 = 25' 030 = 30' 035 = 35' 040 = 40' 045 = 45' 050 = 50'
	23 = 20A up to 600V Specialty construction (Includes isolated ground on 6 wire and #10 AWG super neutral conductor on 5 and 6 wire devices, PB color code only)	03 04 05 06		
	30 = 30A up to 600V	04	PE = All Blue***	

Example: PH

23

06

PB










005

Note: *1/2" NPT rear thread.

**Other color codes available upon request.

***Two wire only.

Configurations (Male face view shown, female view is opposite)

20 AMP				
20A SNIG (with super neutral and IG)				
30 AMP				



TX2304002304T00

Tees

Description	Catalog Number
LINKOSITY® M/F/F Tee, 20A, 2P	TX2002002002T00
LINKOSITY® M/F/F Tee, 20A, 3P	TX2003002003T00
LINKOSITY® M/F/F Tee, 20A, 4P	TX2004002004T00
LINKOSITY® M/F/F Tee, 20A, 5P	TX2005002005T00
LINKOSITY® M/F/F Tee, 20A SNIG, 4P	TX2304002304T00
LINKOSITY® M/F/F Tee, 20A SNIG, 6P	TX2306002306T00
LINKOSITY® M/F/F Tee, 20A SNIG, A Phase Tap	TX2306002304A00
LINKOSITY® M/F/F Tee, 20A SNIG, B Phase Tap	TX2306002304B00
LINKOSITY® M/F/F Tee, 20A SNIG, C Phase Tap	TX2306002304C00
LINKOSITY® M/F/F Tee, 30A, 4P	TX3004003004T00






CCMBC

Closure Caps

Description	For use with Female Receptacle	Male Inlet
20A and 30A Receptacle Closure Cap	CCMBC	CCFBC



Cables and Receptacles - Control Integration Components

Device Type	Ratings	Wires	Conductor Colors**	Length (FT)
 PH = Double Ended Cable with Male/Female Straight PM = Male Single Ended Straight PN = Male Single Ended 90° PF = Female Single Ended Straight PG = Female Single Ended 90° PQ = Double Ended Cable with Female 90° PR = Double Ended Cable with Male 90° PS = Double Ended Cable with (2) 90° Connectors  RF = Female Receptacle*  RM = Male Receptacle (Inlet)*	3A - 2W, 3W 03 = 3A - 4W up to 300V	02 03 04	PA = Green/Yellow Black (all others) PB = Green/Yellow White Black (all others)	001 = 1' 005 = 5' 010 = 10' 015 = 15' 020 = 20' 025 = 25' 030 = 30' 035 = 35' 040 = 40' 045 = 45' 050 = 50'
	3A - 2W, 3W R3 = 3A - 4W up to 300V	02 03 04		
	10A - 2W, 3W 10A - 4W 10 = 10A - 5W, 6W, 7W 10A - 8W, 9W 7A - 10W, 12W up to 600V	02 03 04 05 06 07 08 09 10 12		

Example: PH

10

06

PB

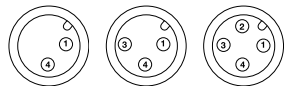

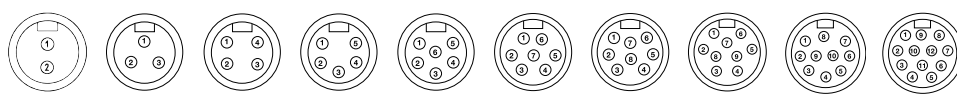
005

Note: **1/2" NPT rear thread.

**Other color codes available upon request.

***Two wire only.

Configurations (Male face view shown, female view is opposite)

03		Typically used for inputs in DC control circuits
R3*		Typically used for outputs in DC control circuits
10		

Note: *Reverse key.

Splitters/Tees

Description	Catalog Number
LINKOSITY® M/F/F Splitter, 3A/4W	TX0304000304T00
LINKOSITY® M/F/F Tee, 10A, 2 Pole	TX1002001002T00
LINKOSITY® M/F/F Tee, 10A, 3 Pole	TX1003001003T00
LINKOSITY® M/F/F Tee, 10A, 4 Pole	TX1004001004T00
LINKOSITY® M/F/F Tee, 10A, 5 Pole	TX1005001005T00
LINKOSITY® M/F/F Tee, 10A, 6 Pole	TX1006001006T00



TX1004001004T00

Closure Caps

Description	For use with	
	Female Receptacle	Male Inlet
3A Closure Cap	CCM1C	CCF1C
10A Closure Cap, 2, 3, 4, 4, 5 and 6 Pole	CCMAC	CCFAC
10A Closure Cap, 7 and 8 Pole	CCMBC	CCFBC
10A Closure Cap, 9, 10, 12 Pole	CCMCC	CCFCC



CCFAC



Power System Distribution Assemblies

- Available with up to 5 receptacles, wide variety of NEMA 5-20 receptacle grades
- Power pass thru option
- 16 gauge sheet metal enclosure ANSI 61 gray powder coat NEMA 1
- Device identification marking
- Versatile mounting provision
- Local or master switch
- LINKOSITY® connection



MSL3L1IGP

Note: Accepts PH2304 series cables.

Straight Blade - UL Type 1

Device Type	Switch Types	# Recepts	Receptacle Type	Receptacle Feature	Pass-thru	Custom Configurations*
M	SL = Switch Local	1	SG = Spec Grade HG = Hospital Grade CR = Corrosion Resistant	IG = Isolated Ground GF = Ground Fault SS = Surge Suppression 00 = Standard	P = Pass-thru** 0 = No Pass-thru	D = 2 Circuit A = A Phase B = B Phase C = C Phase
	SM = Switch Master	2				
	00 = No Switch	3				
		4				
		5				

Example: M SL 1 SG 00 P

Twist-Lock® - UL Type 1

Device Type	Switch Types	# Recepts	Receptacle Type	Receptacle Feature	Pass-thru	Custom Configurations*
M	SL = Switch Local	1	L1 = 15A L2 = 20A	IG = Isolated Ground 00 = Standard	P = Pass-thru 0 = No Pass-thru	6 = 250V
	SM = Switch Master	2				
	00 = No Switch	3				
		4				
		5				

Example: M 00 3 L1 IG 0

Note: Local switches control all receptacles in a box. Master switches control local and downstream receptacles. Consult factory for alternate wiring schemes.

*Consult factory for wiring specifications and connecting cables.

**Pass-thru on phase tap boxes are 3Ø.

Switch Only (ON/OFF) - UL Type 1

Device Type	Switch Types	Switch Style	Poles
S	1 = 1 Gang	2W = ON/OFF	1P = Single Pole DP = Two Pole
	2 = 2 Gang		
	3 = 3 Gang		

Example: S 1 2W 1P

Switch Only (4-Way) - UL Type 1

Device Type	Switch Types	Switch Style
S	1 = 1 Gang	4W = 4 Way

Example: S 1 4W

Switch Only (3-Way) - UL Type 1

Device Type	Switch Types	Switch Style	Position
S	1 = 1 Gang	3W = 3 Way	M = Main R = Remote LM = Line to Main LR = Load to Remote

Example: S 1 3W M

Note: For use with Px2304PBxxx series cables.

Features

Receptacle Types	CR	HG	SG	L1
00 Standard	HBL53CM62	HBL8300GY	5362G	HBL4700
IG Isolated Ground	—	—	CR5352IGGY	IG4700A
GF Ground Fault	—	GFRST83GY	GFRST20GY	—
SS Surge Suppression	—	HBL8362GYSA	HBL5362GYSA	—
Switch Types	CR	HG	SG	L1
SL Local ON/OFF	—	—	HBL1221PL	—
SM Master ON/OFF	—	—	HBL1221PL	—



LINKOSITY® UL Type 3R and 4X Rated Assemblies

- Available with switch, ground fault, corrosion resistant or isolated ground receptacles
- Power pass thru option
- UL Type 3R and 4X Rated
- Device identification marking
- Versatile mounting provision
- LINKOSITY® connection



LINKOSITY® Feed - UL Type 3R Rated*

3R Rated Standard Items

Description	Catalog Number
20A 125V Ground Fault	M3R002SGGF0
20A 125V Switched, Spec Grade	M3RSL1SG000
20A 125V Switched, Ground Fault	M3RSL1SGGF0
20A 125V Spec Grade	M3R002SG000
20A 125V Ground Fault, Pass-Thru	M3R002SGGFP
20A 125V Switched, Spec Grade, Pass-Thru	M3RSL1SG00P
20A 125V Switched, Ground Fault, Pass-Thru	M3RSL1SGGFP
20A 125V (2) Switches	M3R2SG000
20A 125V 1-Gang Ground Fault	M3R001SGGF0
20A 125V Corrosion Resistant	M3R002CR000
20A 125V Isolated Ground	M3R002SGIGP
20A 125V Spec Grade, Pass-Thru	M3R002SG00P

Note: *When cover closed.

Device Type	Style	Type	No. of Devices	Device Type	Device Feature	Pass-Thru
M	3R - 3R Lids	SL - Switch Local	1	SG - Spec Grade	IG - Isolated Ground GF - Ground Fault SI - Surge/IG SS - Surge 00 - Standard	P - Pass-Thru 0 - No Pass-Thru
	3D - 3R Deep Cover	SM - Switch Master 00 - None	2	HG - Hospital Grade CR - Corrosion Resistant L1 - 15A Locking		



Replacement Mounting Feet

Description	Catalog Number
For Power Distribution Assemblies.	HBLRFT1^Δ

Note: ^Δ Package of 10 mounting feet and 10 screws.





LINKOSITY® Feed - UL Type 4X Rated**

4X Rated NEMA Standard Items

Description	Catalog Number
20A 125V Straight Blade†	MLWF2010
20A 125V WTSSTL	MLWF2020
20A 125V Straight Blade, Pass-Thru	MLWF201P
20A 125V WTSSTL, Pass-Thru	MLWF202P
20A 125/250V WTSSTL, No Pass-Thru	MLWF2070
30A 125V WTSSTL, No Pass-Thru	MLWF1050
30A 250V WTSSTL, No Pass-Thru	MLWF1060
30A 125V WTSSTL, No Pass-Thru	MLWF2050
30A 250V WTSSTL, No Pass-Thru	MLWF2060



Device Type	Style	Type	No. of Devices	Device Type	Pass-Thru
M	L - LINKOSITY	WF - Watertight Safety-Shroud Receptacle	1	01 - 20A 125V Straight Blade†	P - Pass-Thru 0 - No Pass-Thru
			2	02 - 20A 125V Twist-Lock 03 - 20A 250V Twist-Lock 04 - 20A 277V Twist-Lock 05 - 30A 125V Twist-Lock 06 - 30A 250V Twist-Lock 07 - 20A 125/250V Twist-Lock 08 - 20A 3Ø 250V Twist-Lock 09 - 20A 3Ø 480V Twist-Lock 10 - 30A 125/250V Twist-Lock 11 - 30A 3Ø 250V Twist-Lock 12 - 30A 3Ø 480V Twist-Lock 13 - 30A 3Ø 600V Twist-Lock	
		WM - Watertight Safety-Shroud Inlet			

All LINKOSITY® - UL Type 4X Rated*

4X Rated LINKOSITY Standard Items

Description	Catalog Number
20A 3W up to 600V, 4 Port	M4L2003PB0
20A 3W up to 600V, 4 Port Pass-Thru	M4L2003BPB

Conduit Feed - UL Type 4X Rated**

Conduit Feed Standard Items

Description	Catalog Number
20A 125V Straight Blade	MCWF2010
20A 125V WTSSTL	MCWF2020
20A 250V WTSSTL	MCWF2030
20A 277V WTSSTL	MCWF2040
30A 125V WTSSTL	MCWF2050
30A 250V WTSSTL	MCWF2060
20A 125/250V WTSSTL	MCWF2070
20A 3Ø, 250V WTSSTL	MCWF2080
20A 3Ø, 480V WTSSTL	MCWF2090
30A 125/250V WTSSTL	MCWF2100
30A 3Ø 250V WTSSTL	MCWF2110
30A 3Ø 480V WTSSTL	MCWF2120
30A 3Ø 600V WTSSTL	MCWF2130



Device Type	Style	Type	No. of Poles	Conductor Colors	Pass - Thru
M	4L - LINKOSITY	20 - 20A	02	PA - Green/Yellow Black (all others)	P - Pass-Thru 0 - No Pass-Thru
			03		
		23 - 20A Super Neutral Isolated Ground	04	PB - Green/Yellow White Black (all others)	
			05		
30 - 30A	06				

Note: **Watertight Safety-Shroud® Twist-Lock® Plug required when in use.

†Straight Blade are UL Type 4X when not in use only.

•Closure cap required when not in use.

Accepts PH2304 series cables.

WTSSTL is an abbreviation for Watertight Safety-Shroud® Twist-Lock®.



Device Type	Style	Type	No. of Devices	NEMA Device Type	Pass-Thru
M	C - Conduit Feed	WF - Watertight Safety-Shroud Receptacles	2	01 - 20A 125V Straight Blade	0 - No Pass-Thru
				02 - 20A 125V Twist-Lock 03 - 20A 250V Twist-Lock 04 - 20A 277V Twist-Lock 05 - 30A 125V Twist-Lock 06 - 30A 250V Twist-Lock 07 - 20A 125/250V Twist-Lock 08 - 20A 3Ø 250V Twist-Lock 09 - 20A 3Ø 480V Twist-Lock 10 - 30A 125/250V Twist-Lock 11 - 30A 3Ø 250V Twist-Lock 12 - 30A 3Ø 480V Twist-Lock 13 - 30A 3Ø 600V Twist-Lock	
		WM - Watertight Safety-Shroud Inlet			



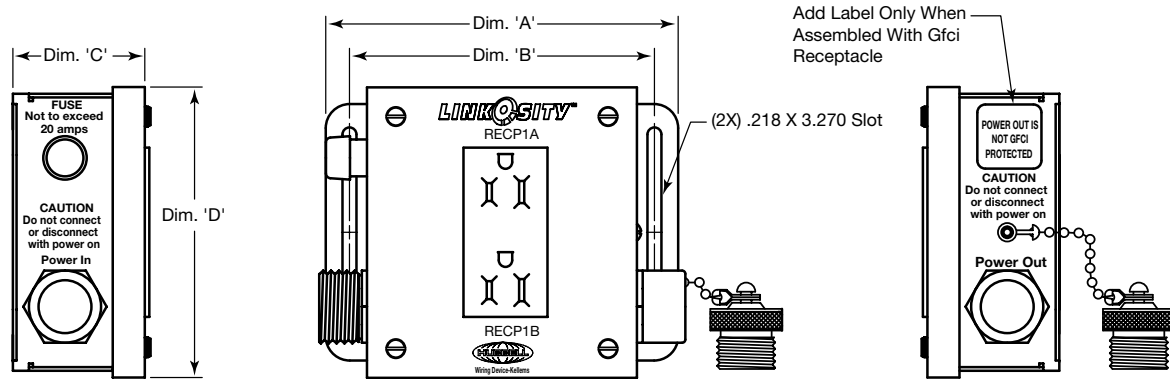
Replacement Mounting Feet

Description Catalog Number

For Power Distribution Assemblies.

HBLRFT1^Δ

Note: ^Δ Package of 10 mounting feet and 10 screws.



Catalog Number M001****P Shown

Catalog Number	Gangs	Dimension 'A'	Dimension 'B'	Dimension 'C'	Dimension 'D'
M001****P	1	5.50 (139.7)	4.75 (120.7)	2.25 (57.2)	4.53 (115.1)
M002****P	2	7.50 (190.5)	6.75 (171.5)	2.25 (57.2)	4.53 (115.1)
M003****P	3	9.50 (241.3)	8.75 (222.3)	2.25 (57.2)	4.53 (115.1)
M004****P	4	11.50 (292.1)	10.75 (273.1)	2.25 (57.2)	4.53 (115.1)
M005****P	5	13.50 (342.9)	12.75 (323.9)	2.25 (57.2)	4.53 (115.1)

LINKOSITY® Specifications

Certifications

System Level	ETL Classified to NEC
Component Assemblies (PSDA)	UL Listed
Connecting Components	Listed to UL2238 and UL 50
Cable (Up to #22 AWG)	UL 300V Type ITC/PLTC 105°C
Cable (#16 AWG and Up)	UL 600V Type TC-ER, MTW 90°C or ST00W 600V 105°C

Cable Diameter

Amps	Wires	O.D.
20	3	.595 (15.1)
20	4	.645 (16.4)
20	5	.710 (18.0)
20	6	.760 (19.3)
30	4	.710 (18.0)

Performance

Electrical

Voltage	Up to 600V
Amperage	Up to 30A

Environmental

Connectivity System Components

Moisture Resistance	UL Type 4, 4X, 12 and 13
Ingress Protection	IP66 Suitability
Flammability	UL94HB Cables/UL94V-0 receptacles

Power System Distribution Assemblies

Moisture Resistance	NEMA Type 1, Type 3R, Type 4X
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Dimensions in Inches (mm)



Housing Design

- Thermoplastic Cover on Plated Steel Base
- NEMA 1 Enclosure
- Pre-wired with LINKOSITY® Components
- Crush and Impact Resistance of MC Cable



HBL1389MQ5

Housing Design

- High Impact Valox® Enclosure
- Type 4X Enclosure
- Permanent Labelless Marking
- Lockable Handle to Meet OSHA Lockout/Tagout Regulations
- Cable Ratings: TC-ER, MTW, STOOW

IP67
SUITABILITY



HBLDS3MQ5

MotorQuick® Disconnect Switches

Type 1 Non-Metallic Enclosure 30A 3 Pole 600V AC	Catalog Number
HBL1389D with one pre-wired LINKOSITY® female receptacle (load side).	HBL1389MQR
HBL1389D with 5 foot pre-wired LINKOSITY® female cable (load side).	HBL1389MQ5
HBL1389D with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	HBL1389MQR2
Type 4X Non-Metallic Labelless Enclosure 30A 3 Pole 600V AC	Catalog Number
HBLDS3 with one pre-wired LINKOSITY® female receptacle (load side).	HBLDS3MQR
HBLDS3 with 5 foot pre-wired LINKOSITY® female cable (load side).	HBLDS3MQ5
HBLDS3 with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	HBLDS3MQR2
Type 4X Stainless Steel Enclosure 30A 3 Pole 600V AC	Catalog Number
HBLDS3SS with one pre-wired LINKOSITY® female receptacle (load side).	HBLDS3SSRMQR
HBLDS3SS with 5 foot pre-wired LINKOSITY® female cable (load side).	HBLDS3SSRMQ5
HBLDS3SS with one pre-wired LINKOSITY® male receptacle (line side) and one pre-wired LINKOSITY® female receptacle (load side).	HBLDS3SSRMQR2



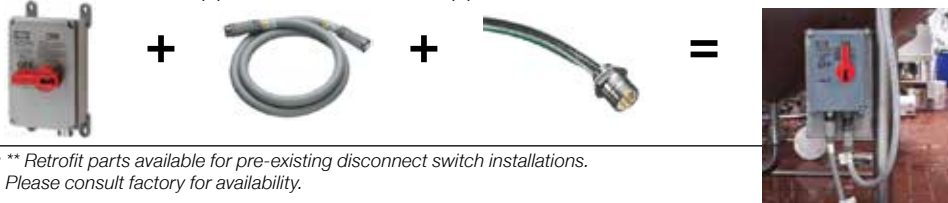
Accessories

Description	Catalog Number
3P 4W LINKOSITY® male receptacle for installation on motor.	RM3004PA001
3P 4W LINKOSITY® female receptacle for installation in switch.	RF3004PA001
3P 4W LINKOSITY® double ended (male/female) 5-50 foot cable.	PH3004PA_{xxx}*
3P 4W LINKOSITY® single ended (female) 5-50 foot cable.	PF3004PA_{xxx}*
Cord connector, 3/4 in. NPT .63-.75 in. (16.0-19.1) diameter.	SHC1037CR
Lock-on cover for LINKOSITY® connections.	PH2030C

Note: *Cables available from 5-50 feet in 5 foot increments. To purchase larger cable, replace the **xxx** with the required length in feet. (Examples: **PH3004PA005** = 5 foot cable, **PH3004PA050** = 50 foot cable.)

Sample Set Up

(1) HBLDS3MQR + (1) PH3004PA_{xxx} + (1) RM3004PA001 = Total Set Up**



Note: ** Retrofit parts available for pre-existing disconnect switch installations. Please consult factory for availability.

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

CableTrak® Hose and Cable Carrier System

The design of CableTrak carriers provides easy access to components during installation and repair. The track's flip top design allows the installer to lay cable and hose components directly into the track instead of pulling them through the length of the track. Hubbell CableTrak carriers can be ordered as assembled kits with brackets or by the foot without brackets. The final length of the track is easily customized by adding or removing sections of track or individual links with a flat head screwdriver.

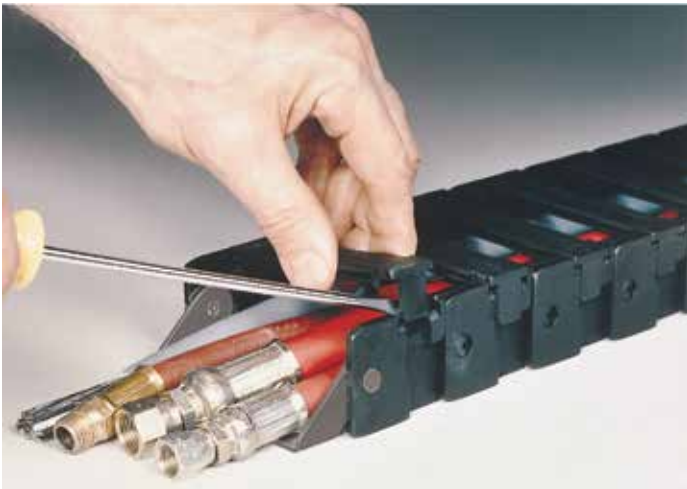


CableTrak® Installation

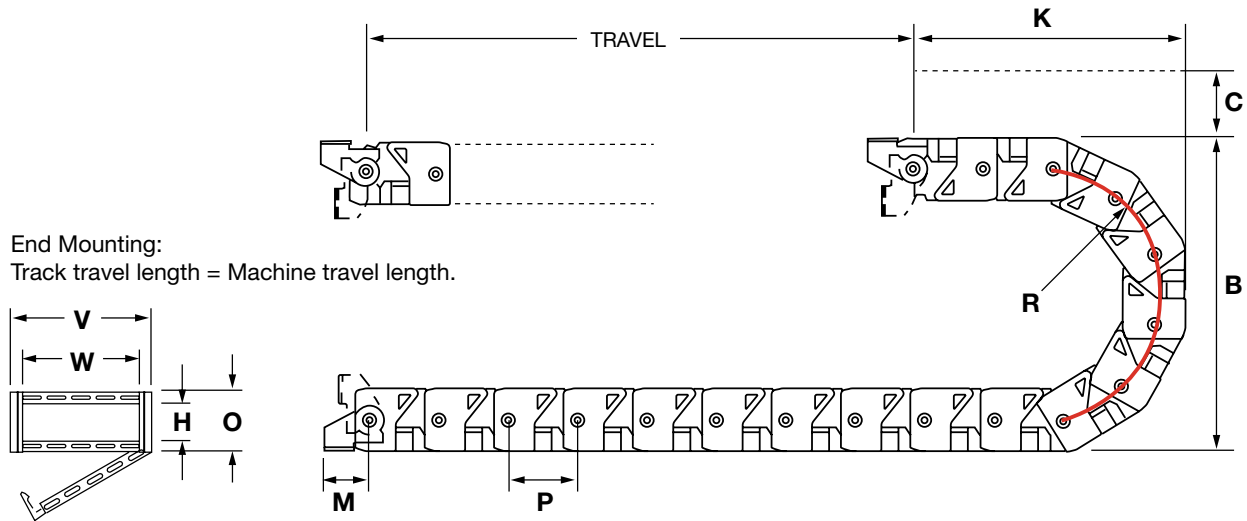
1. Unlock Tab.
2. Locking tabs secure the retaining bar into place.
To unlock tabs, slide a flat head screwdriver under the tab and release it with a twisting motion.

Access/Install Cables and Hoses

3. Easy access is important, especially for pre-assembled cable/hose sets involving large O.D. plugs, receptacles, and couplings.
4. Lock Tab.
5. To re-secure retaining bars, engage the hinge and snap the locking tab into place.



CableTrak® Kits



CableTrak® Kit with Brackets

Catalog Number	Track Length (ft)	W Inner Width	H Inner Height	A Max Hose/Cab O.D.	B Max Component Width	V Outer Width	O Outer Height	R Bend Radius	B Bend Height	C Clearance	K Min Brkt to Bend	M Brkt to Pivot	P Pitch	L* Curve Length (ft)
HCT10114K**	4.0'	0.59"	0.75"	0.286"	0.531"	1.03"	1.00"	1.44"	3.86"	2.00"	5.68"	1.33"	1.250"	1.000'
HCT10219K**	4.0'	1.00"	0.75"	0.382"	0.900"	1.44"	1.00"	1.91"	4.82"	2.00"	5.41"	1.33"	1.250"	1.000'
HCT16119K	4.0'	1.50"	1.00"	0.382"	1.350"	2.12"	1.62"	1.91"	5.44"	3.00"	5.72"	1.19"	1.812"	1.000'
HCT16134K	4.5'	1.50"	1.00"	0.688"	1.350"	2.12"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT16219K	4.0'	2.28"	1.00"	0.328"	2.052"	2.91"	1.62"	1.91"	5.44"	3.00"	5.72"	1.19"	1.812"	1.000'
HCT16234K	4.5'	2.28"	1.00"	0.688"	2.052"	2.91"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT16334K	4.5'	3.08"	1.00"	0.688"	2.772"	3.70"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT16434K	4.5'	4.06"	1.00"	0.688"	3.654"	4.69"	1.62"	3.44"	8.50"	3.00"	7.85"	1.19"	1.812"	1.500'
HCT25134K	4.5'	2.60"	1.75"	0.680"	2.340"	3.70"	2.50"	3.40"	9.30"	3.00"	8.31"	1.75"	2.500"	1.500'
HCT25234K	4.5'	4.25"	1.75"	0.680"	3.825"	5.36"	2.50"	3.40"	9.30"	3.00"	8.31"	1.75"	2.500"	1.500'
HCT25247K	5.0'	4.25"	1.75"	0.956"	3.825"	5.36"	2.50"	4.78"	12.06"	3.00"	10.52"	1.75"	2.500"	2.000'
HCT25347K	5.0'	6.60"	1.75"	0.956"	5.940"	7.70"	2.50"	4.78"	12.06"	3.00"	10.52"	1.75"	2.500"	2.000'

CableTrak® Kit without Brackets

Catalog Number	Track Length (ft)	W Inner Width	H Inner Height	A Max Hose/Cab O.D.	B Max Component Width	V Outer Width	O Outer Height	R Bend Radius	B Bend Height	C Clearance	P Pitch	L* Curve Length (ft)
HCT101141**	1.0'	0.59"	0.75"	0.286"	0.531"	1.03"	1.00"	1.44"	3.86"	2.00"	1.250"	1.000'
HCT102191**	1.0'	1.00"	0.75"	0.382"	0.900"	1.44"	1.00"	1.91"	4.82"	2.00"	1.250"	1.000'
HCT161191	1.0'	1.50"	1.00"	0.382"	1.350"	2.12"	1.62"	1.91"	5.44"	3.00"	1.812"	1.000'
HCT161341	1.0'	1.50"	1.00"	0.688"	1.350"	2.12"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT162191	1.0'	2.28"	1.00"	0.328"	2.052"	2.91"	1.62"	1.91"	5.44"	3.00"	1.812"	1.000'
HCT162341	1.0'	2.28"	1.00"	0.688"	2.052"	2.91"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT163341	1.0'	3.08"	1.00"	0.688"	2.772"	3.70"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT164341	1.0'	4.06"	1.00"	0.688"	3.654"	4.69"	1.62"	3.44"	8.50"	3.00"	1.812"	1.500'
HCT251341	1.0'	2.60"	1.75"	0.680"	2.340"	3.70"	2.50"	3.40"	9.30"	3.00"	2.500"	1.500'
HCT252341	1.0'	4.25"	1.75"	0.680"	3.825"	5.36"	2.50"	3.40"	9.30"	3.00"	2.500"	1.500'
HCT252471	1.0'	4.25"	1.75"	0.956"	3.825"	5.36"	2.50"	4.78"	12.06"	3.00"	2.500"	2.000'
HCT253471	1.0'	6.60"	1.75"	0.956"	5.940"	7.70"	2.50"	4.78"	12.06"	3.00"	2.500"	2.000'

Note: *L = Minimum length in feet to form CableTrak curve.

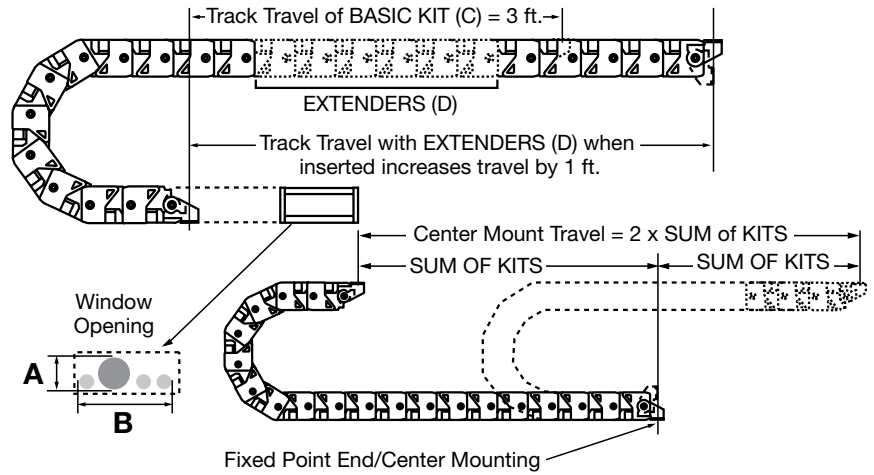
**These models do not have a flip top design and do not accept separators due to their small size.

Dimensions in Inches (mm)

Industrial Connectivity and Control Products

CableTrak® Accessories

Center Mounting: Mounting the fixed track end in the center of the machine travel allows the track to travel beyond the fixed end. Center mounting effectively doubles the travel distance of the track requiring half the track length of an end mounted application.



Calculating

Center Mount (Stationary bracket mounted in center of travel range): $\text{Track Length} = (\text{MT}/2) + L$

End Mount (Stationary bracket mounted off center of travel range): $\text{Track Length} = (\text{MT}/2) + L + \text{offset from center in feet}$

MT = Total machine travel distance in feet

L = Length of track taken up by the bend radius

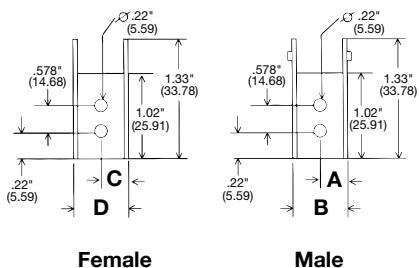
Customizing Track Length

Hubbell CableTrak is easily customized by adding or subtracting links to the track. CableTrak kits provide 4 to 5 feet of track with brackets pre-installed. Track length can be increased by installing the required number of extenders to reach the required length. To further tune the length of track, individual links can be added or removed. To determine the number of links to add or remove, divide the length in inches to be added or subtracted by the pitch of the track and round up.

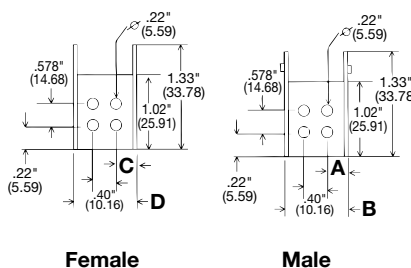
CableTrak® Accessories

Bracket Kits	For Use With	A	B	C	D	E	F	G	H
HCTBK101	HCT101 Series	.40" (10.2)	.81" (20.6)	.47" (12.0)	.94" (23.9)	–	–	–	–
HCTBK102	HCT102 Series	.44" (11.2)	1.22" (31.0)	.44" (11.2)	1.35" (34.3)	–	–	–	–
HCTBK161	HCT161 Series	.99" (25.2)	1.97" (50.1)	.87" (22.1)	1.84" (46.7)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
HCTBK162	HCT162 Series	1.78" (45.2)	2.75" (69.9)	1.65" (41.9)	2.63" (66.8)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
HCTBK163	HCT163 Series	2.57" (65.3)	3.55" (90.2)	2.44" (62.0)	3.42" (86.9)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
HCTBK164	HCT164 Series	3.56" (90.4)	4.53" (115.1)	3.47" (88.1)	4.41" (112.0)	1.19" (30.2)	.281" (7.1)	.75" (19.1)	.81" (20.6)
HCTBK251	HCT251 Series	2.08" (52.8)	3.21" (81.5)	1.80" (45.7)	3.03" (77.0)	1.75" (44.5)	.344" (8.7)	1.00" (25.4)	1.25" (31.8)
HCTBK252	HCT252 Series	3.74" (95.0)	4.87" (123.7)	3.46" (87.9)	4.69" (119.1)	1.75" (44.5)	.344" (8.7)	1.00" (25.4)	1.25" (31.8)
HCTBK253	HCT253 Series	6.08" (154.4)	7.21" (183.1)	5.80" (147.3)	7.03" (178.6)	1.75" (44.5)	.344" (8.7)	1.00" (25.4)	1.25" (31.8)
Separators	For Use With	A	B	C	D	E	F		
HCTSP16PK12	HCT16 Series	1.24" (31.5)	.82" (20.8)	.94" (23.9)	.27" (6.9)	.14" (3.6)	.50" (12.7)		
HCTSP25PK12	HCT25 Series	2.03" (51.6)	1.00" (25.4)	1.19" (30.2)	.35" (8.9)	.15" (3.8)	.62" (15.8)		

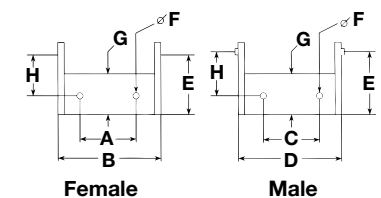
HCTBK101 – Brackets



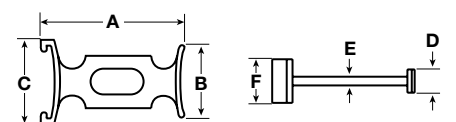
HCTBK102 – Brackets



HCTBK161 – HCTGK253 Brackets



Separators

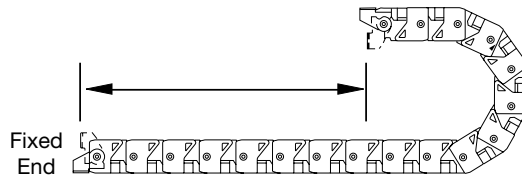
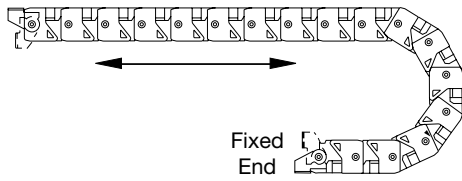


Dimensions in Inches (mm)

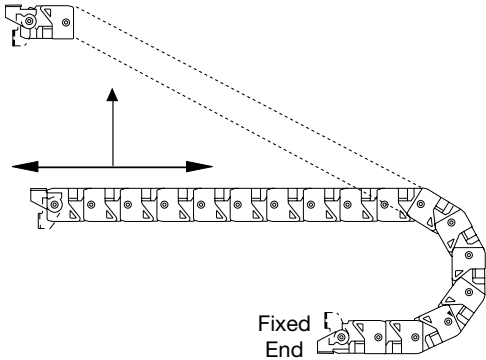
Industrial Connectivity and Control Products

CableTrak® System Mounting Options

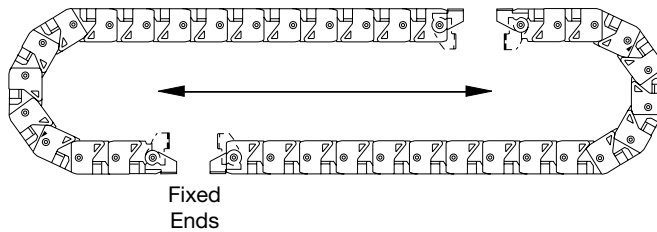
Horizontal Travel



Combination Horizontal & Vertical Travel

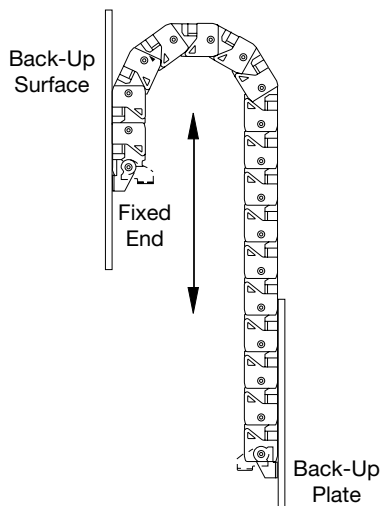


Opposed Travel

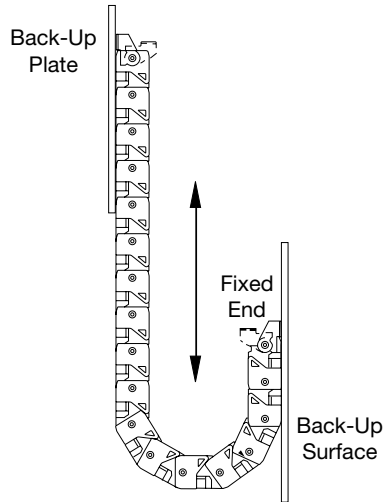


Vertical Travel

Curve Up



Curve Down



Specifications

Material	Fiberglass reinforced nylon.
Operating Temperature	Continuous +20°F to +100°F (-7°C to 38°C). Intermittent* -40°F to +220°F (-40°C to 104°C).
Maximum Operating Speed	600 FPM (feet per minute), 180 MPM (meters per minute). Operating speed is based on short lengths that are self supported (up to 9ft.).
Maximum Unsupported Travel Distance	HCT16 Series without sag 9 ft. (2.8 m) with sag 10.5 ft. (3.2 m). HCT25 Series without sag 13.5 ft. (4.1 m) with sag 17 ft. (5.2 m).
Applications	Machine tool, robotic automation, material handling.

Note: *Intermittent refers to the operating of the product outside the normal (continuous operating) temperature range momentarily before returning back to the normal range.

DIN Rail Utility Box

Hubbell's DIN Rail Utility Box offers a labor saving way to provide utility power to any control cabinet. Installing the DIN Rail Utility Box is as easy as snapping the box onto a 35mm DIN Rail and connecting the line, neutral and ground wires to the terminal block. Utility power for fans, lights, laptop computers, testers or any other power requirement. If load limiting is a concern, Hubbell's "CB" version comes with a 5 Amp circuit breaker that provides over-current protection to make sure that large loads are not drawn from the DIN Rail Utility Box. All Hubbell DIN Rail Utility Boxes may be mounted either vertically or horizontally on the DIN Rail; the "H" version comes with the terminal block mounted for easy wiring when the DIN Rail Utility Box is mounted horizontally.



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



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

Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	DRUB15	DRUB20
Complete unit, horizontal mount.	Gray	DRUB15H	-
Complete unit with 5A circuit breaker.	Gray	DRUB15CB5	-
Complete unit with 5A circuit breaker, horizontal.	Gray	DRUB15HCB5	-
Complete unit with aux.	Gray	-	DRUB20AC
Complete unit with aux and 5A circuit breaker.	Gray	-	DRUB20ACCB5
Complete unit with NEMA® 6-20R duplex (250V).	Gray	-	DRUB5462*

GFCI Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	DRUBGFI15	DRUBGFI20
Complete unit, horizontal.	Gray	DRUBGFI15H	-
Complete unit with 5A circuit breaker.	Gray	DRUBGFI15CB5	-
Complete unit with 5A circuit breaker, horizontal.	Gray	DRUBGFI15HCB5	-
Complete unit with aux GFCI contacts.	Gray	DRUBGFI15AC	DRUBGFI20AC
Complete unit, faceless with aux GFCI contacts.	Gray	-	DRUBGFI20BFAC

TVSS Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	DRUBTVSS15	-
Complete unit with aux contacts.	Gray	DRUBTVSS15AC	-

Isolated Ground^Δ Duplex Receptacles

Description	Color	Catalog Number	
Complete unit.	Gray	DRUBIG15	-

Toggle Switch Unit

Description	Color	Catalog Number
Complete unit with HBL1221.	Gray	DRUB1221AC
Complete unit with 15A 125V SW/REC.	Gray	DRUB6404

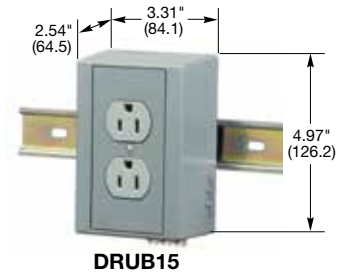
DIN Rail Utility Box Components

Description	Color	Catalog Number
Pre-wired kit without circuit breaker.	Gray	DRUBKIT
Pre-wired kit with circuit breaker.	Gray	DRUBKITCB5
Pre-wired kit with aux.	Gray	DRUBKITAC
Pre-wired kit with circuit breaker and aux.	Gray	DRUBKITACCB5
Communications kit (unloaded).	Gray	HIDRUBKIT
(For use with Network Wiring frames in section W).		
Switch plate only.	Gray	KP1GY**
Rectangular opening plate only.	Gray	KP26GY**
1.60 in. opening plate only.	Gray	KP720GY**
1.40 in. opening plate only.	Gray	KP7GY**
Duplex receptacle plate only.	Gray	KP8GY**

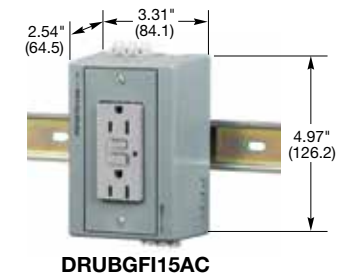
Note: ^ΔSee section M for additional information on isolated ground devices.

*DRUB5462 configuration not pictured.

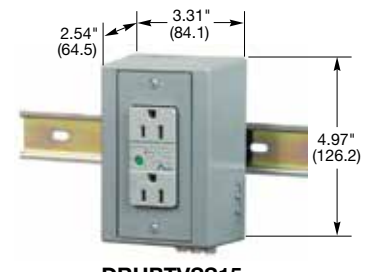
**UL Listed, CSA Certified.



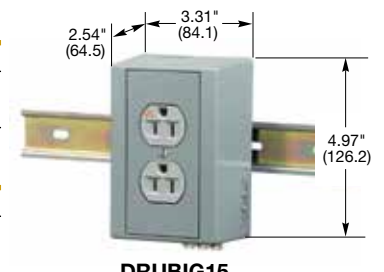
DRUB15



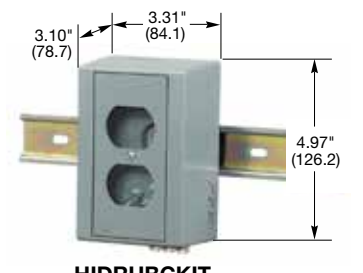
DRUBGFI15AC



DRUBTVSS15



DRUBIG15



HIDRUBKIT

Dimensions in Inches (mm)

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

Features and Benefits

PANEL-SAFE® Power and Data

An arc flash is a short circuit that travels through air from one live circuit to another. Problems including gaps in insulation, dust or corrosion on the surface of a conductor, or even use of substandard components can cause a serious safety hazards and equipment failures. Arc flash incidents can be extremely costly to a business and can result in serious or even fatal burns, as well as damage to eyesight. Hubbell PANEL-SAFE® provides through door access to live electrical components without having to open the enclosure.

- Available in Type 4, 12 and 4X versions with protective clear cover
- Provides overcurrent protection for both power and data access ports
- Ensures safety with finger-safe contacts and Hubbell GFCI functionality

IP66
SUITABILITY

NFPA 70E Compliant



Available in
**NEMA TYPE 4, 12 and
NEMA TYPE 4X Versions!**



Housing Design

- Rugged, nickel-plated hardware, excellent corrosion and abuse resistance
- Protective clear cover
- Operating temperature -20°C to 110°C



Internal Design

- Hubbell GFCI with functionality indicator
- Cat. 5e Ethernet access*
- Overcurrent protection



Housing Design

- Locking Hasp accepts 5/32" padlock
- Supplemental "Tool" entry screw closure



Internal Design

- Additional convenience outlet on GFCI versions
- Finger-safe contacts
- Stainless steel snap latch

Note: *Additional computer interfaces and PLC connections available upon request.

Specifications

Electrical	GFCI - conforms to UL 943 2006 requirement In-Cabinet Receptacle - GFCI protected Data Jack - Cat. 5e Circuit Breaker - 3A
Mechanical	Cover - Clear Polycarbonate (UV Rated) Housing - Cast Aluminum Finish - Powder Coat Latch - Stainless steel
Environmental	Enclosure - NEMA Type 4, 12 and NEMA Type 4X
Certification	UL Recognized CSA Certified

Application



PANEL-SAFE® Power Only

Description	NEMA TYPE 4	NEMA TYPE 4X
20A 125V GFCI with In-Cabinet Receptacle.	PR20	—



PR20

PANEL-SAFE® Data Only

Description	NEMA TYPE 4	NEMA TYPE 4X
Cat. 5e Ethernet Access only.	P5E	P4X5E
DB9 Interface Connector only.	PDB9	—
PANEL-SAFE Data Port with DB9 Connector.	PDB9MF	—
DH + Combo (DB9/8M Din) and Cat. 5e Ethernet.	PDH5E	—
PANEL-SAFE Data Port, (2) USB, 3 ft. Cable.	—	P4XUSBA2C3



P5E



PDB9MF



P4XUSBA2C3

PANEL-SAFE® Power and Data

Description	NEMA TYPE 4	NEMA TYPE 4X
20A 125V GFCI with In-Cabinet Receptacle and Cat. 5e Ethernet Access.	PR205E	PR4X205E
20A 125V GFCI with In-Cabinet Receptacle, Cat. 5e Ethernet Access and 3A Circuit Breaker.	PR205EB	PR4X205EB
PANEL-SAFE with 20A GFCI and Cat.5e, DB9 and 3A Circuit Breaker.	PR205EDB9B	—
PANEL-SAFE with 20A GFCI and Cat.5e, 3A USB.	PR205EUSBA	—
PANEL-SAFE with 20A GFCI and Cat.5e, (2) 3A USB.	PR205EUSBA2	—
PANEL-SAFE Data Access Port.	PR205EUSBA2VGA	—
20A 125V GFCI Power and Cat. 5e, DB9 and 3A Circuit Breaker.	PR205EDB9MFB	—
20A 125V GFCI Power and Cat. 5e Ethernet, DH + Combo (DB9/8M Din).	P20DH5E	—
PANEL-SAFE with 20A GFCI and Cat.5/DB9.	P205EDB9	—
PANEL-SAFE, 4X, Cat. 5e, DB9, Circuit Breaker.	—	PR4X205EDB9B
PANEL-SAFE 4X, Cat. 5e, (2) DB9, Circuit Breaker.	—	PR4X205E2DB92B
15A 125V Power and Cat. 5e Ethernet Access.	P155E	P4X155E
15A 125V Power, Cat. 5e Ethernet Access and 3A Circuit Breaker.	P155EB	P4X155EB
15A 125V Power and (2) Cat. 5e Ethernet Access.	P155E2	—
15A 120V AC Power, NEMA 12/4, DB9 M/F, 10 ft. Cable.	P15DB9MFC10	—
15A 125V Power and DH485 Interface (RJ-45F to RJ-45M, 10 ft. Cable).	P15DH485C10	—
15A 125V Power and Micrologix 8M Din/F to 8M Din/M, 10 ft. Cable.	P15ML8F8MC10	—



PR205EUSBA2



PR205EB



P155E



P155EB

Additional computer interfaces, PLC connections and configurations available upon request. Consult factory for catalog number and availability.

Features and Benefits

HI-Impact Industrial Ethernet Connectors

Hubbell's Industrial Ethernet System provides leading edge Category 5e and 6 network transmission performance suitable for industrial and other harsh environments. This system incorporates the use of our standard data connectivity jacks which feature our keystone latching mechanism, in a rugged sealed housing providing IP67 rated protection.

Extend your LAN to include automation equipment and manufacturing or process control equipment. Utilize the Hubbell system to provide added protection in harsh environments such as convention centers, food processing plants, outdoor billboards and display screens, medical and other environments which require added protection from moisture, corrosion, dust-debris, vibration and chemicals.



Housing Design

- Housing made from high impact polymer
- O-rings for moisture protection
- Sealed connection is IP67 rated



Internal Design

- Category 6 and 5e component connectors
- Standard Hubbell Keystone latching system



Industrial Ethernet Connectors

Description	Cat. 6	Cat. 6 Inline Coupler
Connector	HI6	HI6C



Industrial Ethernet Patch Cords and Plugs

Description	Catalog Number
HI-Impact RJ-45 to standard RJ-45.	HI603AE*
HI-Impact RJ-45 on both ends.	HI603EE*
Standard RJ-45 on both ends.	HI603AA*

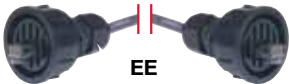
Note: *Additional lengths in feet: 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50.



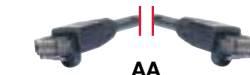
AE

Coupler Housing and Connector Cap

Description	Catalog Number
HI-Impact coupler housing is a perfect solution for temporary and flexible work areas where single port drops are needed. Add any HI-Impact connector to support your application.	HICH
Connector Cap	HIC



EE



AA

HI-Impact Wallplates

Description	1-Gang 1-Port Opening	1-Gang 2-Port Openings	2-Gang 2-Port Openings	2-Gang 4-Port Openings
Stainless steel wallplate.	HISF11	HISF12	HISF22	HISF24

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



HICH

Environmental Specifications

Ingress Protection:	NEMA TYPE 4X (connectors). IP67 and IP66 (dust/water). IP55 (plates).
Corrosion:	Resistant to most common chemicals, oils and cleaning agents.
HI-Impact Housing:	UV resistant.
Temperature Range:	TIA/EIA-568-B.2 -25°C to 70°C.

Material

HI-Impact Housing:	Valox®, UL 94V-0.
Nose Contacts:	Beryllium copper with a minimum of 50 micro-inch gold plating over nickel under plating.

Mechanical

Vibration	
Frequency Range:	10-500Hz.
Acceleration:	5g (operational).
Mating Cycles:	750 minimum.
UL 1863 compliant.	

Electrical

ANSI/TIA/EIA-568-B.2-1 (Cat. 6 and 5e).
Supports TIA-1005 Industrial Telecommunications Infrastructure.



HISF11

SECTION K

Table of Contents



inREACH™ Industrial and Industrial Weatherproof Cord Reels



Commercial and Lighted Cord Reels



Air/Water Hose Reels and Static Discharge Reels



Product	Page
inREACH™ Industrial & Industrial Weatherproof Cord Reels	
Features and Benefits	K-2
inREACH™ Industrial Cord Reels	K-2
Industrial Cord Reels Connector Ends	K-3
inREACH™ Industrial Weatherproof Cord Reels	K-4
Heavy Duty Industrial Weatherproof Reels	K-5

Product	Page
Stainless Steel Cord Reels	K-6
Industrial and Commercial Lighted Cord Reels	K-6
Commercial Cord Reels	K-7
Air/Water Hose Reels and Static Discharge Reels	K-8

inREACH™ Industrial and Industrial Weatherproof Cord Reels

Hubbell's newly redesigned inREACH™ Industrial and Industrial Weatherproof Cord Reels improve existing user safety and maximize efficiency by managing cord and power in a safe and organized manner, while also meeting the most demanding industrial environments needs for years with little to no maintenance.

inREACH™ Industrial and Industrial Weatherproof Cord Reels are listed to UL 355 and CSA, C22.2 No. 308 with a durable, lightweight low profile cast aluminum construction. inREACH™ Reels also feature a newly designed mounting plate that allows for a quick easy installation on any surface.

inREACH™ *No matter what your need, Hubbell will always be inREACH™!*

inREACH™ Industrial and Industrial Weatherproof Cord Reels

- » Durable, corrosion resistant cast aluminum construction
- » Yellow or white powder coat finish
- » Multi-position guide arm can be mounted in two positions
- » Positive latch mechanism automatically maintains desired cord length
- » Ratchet lock can be disengaged in field for constant tension applications
- » 16–10 AWG, 3 & 4 conductor cord for greater current carrying capacity
- » Available in 25ft, 35ft and 45ft lengths



HBLI45163



HBLI45123



HBLI45103Y

Dimensions in Inches (mm)

inREACH™ Industrial Cord Reels

Description	Amps	Volts AC	Cable Length		Weight Lbs. (kg)	White Reel	Yellow Reel
			Feet (m)	Cable Type			
Industrial Reel	10	250	45 (13.7)	16/3 SJO	22.9 (10.4)	HBLI45163	HBLI45163Y
				16/4 SJO	23.6 (10.7)	HBLI45164	HBLI45164Y
			35 (10.7)	16/3 SJO	22.0 (10.0)	HBLI35163	HBLI35163Y
				16/4 SJO	22.7 (10.3)	HBLI35164	HBLI35164Y
			25 (7.6)	16/3 SJO	21.2 (9.6)	HBLI25163	HBLI25163Y
				16/4 SJO	21.8 (9.9)	HBLI25164	HBLI25164Y
Industrial Reel	15	250	45 (13.7)	14/3 SJO	24.0 (10.9)	HBLI45143	HBLI45143Y
				14/4 SJO	25.4 (11.5)	HBLI45144	HBLI45144Y
			35 (10.7)	14/3 SJO	22.9 (10.4)	HBLI35143	HBLI35143Y
				14/4 SJO	24.0 (10.9)	HBLI35144	HBLI35144Y
			25 (7.6)	14/3 SJO	21.8 (9.9)	HBLI25143	HBLI25143Y
				14/4 SJO	22.7 (10.3)	HBLI25144	HBLI25144Y
Industrial Reel	20	250	45 (13.7)	12/3 SJO	26.5 (12.0)	HBLI45123	HBLI45123Y
				12/4 SJO	29.8 (13.5)	HBLI45124	HBLI45124Y
			35 (10.7)	12/3 SJO	24.9 (11.3)	HBLI35123	HBLI35123Y
				12/4 SJO	26.5 (12.0)	HBLI35124	HBLI35124Y
			25 (7.6)	12/3 SJO	23.4 (10.6)	HBLI25123	HBLI25123Y
				12/4 SJO	24.5 (11.1)	HBLI25124	HBLI25124Y
Industrial Reel	30	250	45 (13.7)	10/3 SJO	32.4 (14.7)	HBLI45103	HBLI45103Y
				10/4 SJO	33.7 (15.3)	HBLI40104	HBLI40104Y
			35 (10.7)	10/3 SJO	30.0 (13.6)	HBLI35103	HBLI35103Y
				10/4 SJO	32.2 (14.6)	HBLI35104	HBLI35104Y
			25 (7.6)	10/3 SJO	26.0 (11.8)	HBLI25103	HBLI25103Y
				10/4 SJO	29.1 (13.2)	HBLI25104	HBLI25104Y

Cable, Cord and Hose Reels



Features and Benefits

inREACH™ Industrial Cord Reels

- Durable, corrosion resistant cast aluminum construction
- Yellow or white powder coat finish
- Multi-position guide arm can be mounted in two positions
- Positive latch mechanism automatically maintains desired cord length
- Ratchet lock can be disengaged in field for constant tension applications
- 16–10 AWG, 3 & 4 conductor cord for greater current carrying capacity
- Available in 25ft, 35ft and 45ft lengths



HBLI45123C20

inREACH™ Industrial Cord Reels Connector Ends

Description		Amps	Volts AC	Cable Length		Weight Lbs. (kg)	Catalog Number
				Feet (m)	Cable Type		
White Industrial Reel	with HBL5269C	15	250	45 (13.7)	14/3 SJO	24.0 (10.9)	HBLI45143C15
	with HBL5369C	20	250	45 (13.7)	12/3 SJO	26.5 (12.0)	HBLI45123C20
	with HBL2313					26.5 (12.0)	HBLI45123TL20
White Industrial Reel with Yellow Portable Outlet Box	(1) 15A Duplex Receptacle	15	250	45 (13.7)	14/3 SJO	26.5 (12.0)	HBLI45143R15
	(2) 15A Duplex Receptacles					26.5 (12.0)	HBLI45143R215
	GFCI Module and (1) 15A Duplex Receptacle	15	250	45 (13.7)	14/3 SJO	26.5 (12.0)	HBLI45143GF15
	GFCI Module and (2) 15A Duplex Receptacles					26.5 (12.0)	HBLI45143GF215
White Industrial Reel with Black Portable Outlet Box	(1) 15A Duplex Receptacle	15	250	45 (13.7)	14/3 SJO	26.5 (12.0)	HBLI45143R15M1
	(2) 15A Duplex Receptacles					26.5 (12.0)	HBLI45143R215M1
	GFCI Module and (2) 15A Duplex Receptacles	15	250	45 (13.7)	14/3 SJO	26.5 (12.0)	HBLI45143GF215M1
White Industrial Reel with Yellow Portable Outlet Box	(1) 20A Duplex Receptacle	20	250	45 (13.7)	12/3 SJO	26.5 (12.0)	HBLI45123R20
	(2) 20A Duplex Receptacles					26.5 (12.0)	HBLI45123R220
	GFCI Module and (1) 20A Duplex Receptacle	20	250	45 (13.7)	12/3 SJO	26.5 (12.0)	HBLI45123GF20
	GFCI Module and (2) 20A Duplex Receptacles					26.5 (12.0)	HBLI45123GF220
White Industrial Reel with Black Portable Outlet Box	(1) 20A Duplex Receptacle	20	250	45 (13.7)	12/3 SJO	26.5 (12.0)	HBLI45123R20M1
	(2) 20A Duplex Receptacles					26.5 (12.0)	HBLI45123R220M1
	GFCI Module and (2) 20A Duplex Receptacles	20	250	45 (13.7)	12/3 SJO	26.5 (12.0)	HBLI45123GF220M1



HBLI45123R20M1

Note: 15A reels are supplied with HBL5266C on the power supply cord. 20A reels are supplied with HBL5366C on the power supply cord. For shorter cable lengths, modify length indication in catalog number (i.e. HBLIXX); 35ft & 25ft lengths are available. For yellow reel, add 'Y' suffix to catalog number.

inREACH™ Accessories

Description	Weight Lbs. (kg)	Catalog Number
Mounting bracket	2.5 (1.1)	HBLIMB
340° pivot base	3.5 (1.1)	HBLI340PB
Replacement stop.	.2 (.09)	HBLI16BS
		HBLI14BS
		HBLI12BS
		HBLI10BS



Dimensions in Inches (mm)

Labor Savings are inREACH™!



Features and Benefits

inREACH™ Industrial Weatherproof Cord Reels

- UL Type 4
- 600V AC, SOW Type Cable
- Durable, corrosion resistant cast aluminum construction design with yellow or white powder coat finish
- Multi-position guide arm
- Positive-latch mechanism automatically maintains desired cord length
- 16–10 AWG, 3 & 4 conductor cord for greater current carrying capacity



HBLW45103

inREACH™ Industrial Weatherproof Cord Reels



HBLW45163W



HBLW35143



HBLW45103

Description	Amps	Volts AC	Cable Length Feet (m)	Cable Type	Weight Lbs. (kg)	Yellow Reel	White Reel
Weatherproof Industrial Reel	10	600	45 (13.7)	16/3 SOW	23.6 (10.7)	HBLW45163	HBLW45163W
				16/4 SOW	25.6 (11.6)	HBLW45164	HBLW45164W
	35 (10.7)	16/3 SOW	22.5 (10.2)	HBLW35163	HBLW35163W		
		16/4 SOW	23.1 (10.5)	HBLW35164	HBLW35164W		
	25 (7.6)	16/3 SOW	21.4 (9.7)	HBLW25163	HBLW25163W		
		16/4 SOW	21.8 (9.9)	HBLW25164	HBLW25164W		
Weatherproof Industrial Reel	15	600	45 (13.7)	14/3 SOW	28.2 (12.8)	HBLW45143	HBLW45143W
				14/4 SOW	30.0 (13.6)	HBLW45144	HBLW45144W
	35 (10.7)	14/3 SOW	25.1 (11.4)	HBLW35143	HBLW35143W		
		14/4 SOW	26.5 (12.0)	HBLW35144	HBLW35144W		
	25 (7.6)	14/3 SOW	22.5 (10.2)	HBLW25143	HBLW25143W		
		14/4 SOW	24.3 (11.0)	HBLW25144	HBLW25144W		
Weatherproof Industrial Reel	20	600	45 (13.7)	12/3 SOW	31.3 (14.2)	HBLW45123	HBLW45123W
				12/4 SOW	32.2 (14.6)	HBLW40124	HBLW40124W
	35 (10.7)	12/3 SOW	28.9 (13.1)	HBLW35123	HBLW35123W		
		12/4 SOW	30.6 (13.9)	HBLW35124	HBLW35124W		
	25 (7.6)	12/3 SOW	24.9 (11.3)	HBLW25123	HBLW25123W		
		12/4 SOW	27.6 (12.5)	HBLW25124	HBLW25124W		
Weatherproof Industrial Reel	30	600	40 (12.2)	10/3 SOW	33.3 (15.1)	HBLW40103	HBLW40103W
				10/4 SOW	34.2 (15.5)	HBLW35103	HBLW35103W
	35 (10.7)	10/3 SOW	31.7 (14.4)	HBLW35103	HBLW35103W		
		10/4 SOW	34.2 (15.5)	HBLW35104	HBLW35104W		
	25 (7.6)	10/3 SOW	28.4 (12.9)	HBLW25103	HBLW25103W		
		10/4 SOW	30.2 (13.7)	HBLW25104	HBLW25104W		

inREACH™ Accessories

Description	Weight Lbs. (kg)	Catalog Number
Mounting bracket	2.5 (1.1)	HBLIMB
340° pivot base	3.5 (1.1)	HBLI340PB
Replacement stop.	.2 (.09)	HBLI16BS
		HBLI14BS
		HBLI12BS
		HBLI10BS

HBLIMB



HBLI340PB



HBLI16BS

Labor Savings are inREACH™!



Dimensions in Inches (mm)

Features and Benefits

Heavy Duty Industrial Weatherproof Reels

- Powder coated, solid U.S. steel construction
- Multi-position roller guide can be mounted in four different positions
- Ratchet lock can be disengaged in field for constant tension application
- UL Type 4X enclosure protects spring motor, junction box, slip ring assembly and cable entrance from hosedown or corrosion
- Optional pivot base allows 340° rotation of reel and increases range of cable to nearly any direction



HBL501242W
with **HBL16PB**

Heavy Duty Industrial Weatherproof Reels*

Description	Amps	Volts AC	Cable Length Feet (m)	Cable Type	Weight Lbs. (kg)	Catalog Number
14" yellow weatherproof reel	15	600	50 (15.2)	14/3 SOW-A	55 (24.9)	HBL501431W
16" weatherproof reel yellow housing white housing	20	600	50 (15.2)	12/3 SOW-A	80 (36.3)	HBL501232W HBL501232WM1
16" yellow weatherproof reel	16	600	50 (15.2)	12/4 SOW-A	86 (39.0)	HBL501242W
16" weatherproof reel yellow housing white housing	25	600	50 (15.2)	10/3 SOW-A	86 (39.0)	HBL501032W HBL501032WM1
16" yellow weatherproof reel	20	600	50 (15.2)	10/4 SOW-A	92 (41.7)	HBL501042W

Note: *All heavy duty industrial cord reels are supplied with wire leads and 3/4" NPT hub feed. Power supply cable not supplied.



HBL501232WM1



HBL501242W
with **HBL16PB**

Accessories

Description	Weight Lbs. (kg)	Description
14" pivot base.	5 (2.3)	HBL14PB
16" pivot base.	13 (5.9)	HBL16PB
Replacement stop.	.2 (.09)	HBLWPBS



HBL14PB



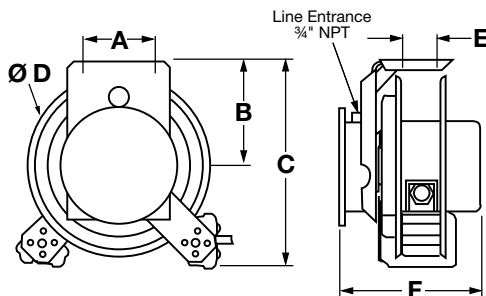
HBLWPBS

Specifications

Listing/Certification	UL 355 and CSA, C22.2 No. 308.
Environment	Type 4X enclosure, CAN/CSA - C22.2 No. 308. Dry, indoor and wet and damp outdoor non-hazardous location.

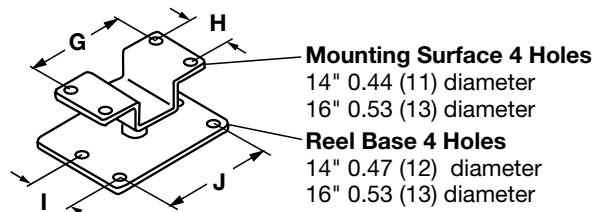
Dimensions

Inch (mm)	A	B	C	D	E	F	G	H	I	J
14" Reel	6.50" (165)	8.12" (206)	16.25" (413)	13.75" (349)	3.00" (76)	12.19" (310)	3.00" (76)	3.00" (76)	3.00" (76)	6.50" (165)
16" Reel	6.50" (165)	9.12" (232)	18.25" (464)	15.75" (400)	3.00" (76)	14.19" (360)	6.00" (152)	6.00" (152)	4.94" (125)	6.50" (165)



Pivot Base

340° Pivot Base (Optional)



Note: Pivot base for use only with Weatherproof Cable Reel.

Dimensions in Inches (mm)

Cable, Cord and Hose Reels



Stainless Steel Cord Reels



HBLSS45123

Description	Amps	Volts	Cable Length Feet (m)	Cable Type	Weight Lbs. (kg)	Catalog Number
Stainless steel reel without cord ends	20	125	45 (13.7)	#12/3 SJEO	30 (14)	HBLSS45123

Note: For indoor non-weathertight applications only.



Industrial Lighted Cord Reels, 45 Ft. (13.7m) - 16/3 AWG SJEO Cable



HBLI45163LED

Cord End	Amps	Volts AC	Watts (Max)	Weight Lbs. (kg)	Catalog Number
LED hand lamp, with end light, white reel.	0.07	120	8 + 1	22.9 (10.4)	HBLI45163LED
Fluorescent hand lamp, white reel.	0.3	120	13	22.9 (10.4)	HBLI45163FL
Incandescent hand lamp, white reel.	0.8	125	100	22.9 (10.4)	HBLI45163IN

Note: Supplied with 5 ft. power supply cord with HBL5266C, 15A straight blade plug.

For shorter cable lengths, modify length indication in catalog number (i.e. HBLIXX); 35ft & 25ft lengths are available.

For yellow reel, add 'Y' suffix to catalog number.

Accessories

Description	Amps	Volts AC	Watts (Max)	Weight Lbs. (kg)	Catalog Number
Replacement stop.	—	—	—	.2 (.09)	HBL16BS
Replacement LED hand lamp.	0.07	120	8 + 1	1 (.5)	HBL16LEDR*
Replacement fluorescent hand lamp.	0.3	120	13	1 (.5)	HBL16FLR
Replacement incandescent hand lamp.	0.8	125	100	1 (.5)	HBL16INR

Note: *cETLus Listed by INTERTEK.



HBLC40182LED



HBLC25143IN



HBLI45163FL



HBLI45163IN

Commercial Lighted Cord Reels



HBLC40182AFL

Description	Amps	Volts AC	Cable Length Feet (m)	Cable Type	Watts (Max)	Weight Lbs. (kg)	Catalog Number
White Reel with LED hand lamp, with flashlight end.	0.65	125	40 (12.2)	#18/2 SJTOW	8 + 1	8.2 (3.7)	HBLC40182LED
White Reel with non-metallic incandescent hand lamp and automatic shut off switch.	0.6	125	25 (7.6)	#16/3 SJT	75	9.0 (4.1)	HBLC25163AIN**
Yellow Reel with metallic incandescent hand lamp with receptacle.	13	125	25 (7.6)	#14/3 SJT	1,625	9.5 (4.3)	HBLC25143IN
White Reel with fluorescent hand lamp and automatic shut off switch.	0.3	120	40 (12.2)	#18/2 SJTOW	13	8.2 (3.7)	HBLC40182AFL**
White Reel with fluorescent hand lamp and in-line receptacle.	10	120	40 (12.2)	#16/3 SJT	1,200	9.0 (4.1)	HBLC40163FL

Note: **Allows the electrical cord reel installation to conform to Article 511 of the National Electric Code concerning installation of electrical devices in commercial garages, repair facilities and storage locations by positioning the switch above the defined area where hazardous fumes may collect.



HBLC40163FL

Dimensions in Inches (mm)



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Features and Benefits

Commercial Cord Reels

- Durable steel construction for commercial and general purpose applications
- Compact size, flexible mounting options for ceiling, wall or bench
- Automatic ratchet lock holds cord at desired length and provides easy, smooth retraction of cord
- Attached plug for power cord requires no wiring



Commercial Cord Reels

- Durable light weight non-metallic housing
- Removable bracket allows reel to be disengaged from mount providing portability
- 40 Ft. of #12/3 cord for greater current carrying capacity
- Triple tap outlet with supplemental over current protection

Commercial Cord Reels

Description	Amps	Volts AC	Cable Length Feet (m)	Cable Type	Watts (Max)	Weight Lbs. (kg)	Catalog Number
Black Reel with triple tap outlet.	15	125	40 (12.2)	#12/3 SJTW	1,875	13.8 (6.3)	HBLC40123TT
Black Reel with wire leads.	15	125	40 (12.2)	#12/3 SJTW	1,875	13.8 (6.3)	HBLC40123
White Reel with triple tap outlet and white cord.	10	125	30 (9.1)	#16/3 SJT	1,250	8.5 (3.9)	HBLC30163TT
Yellow Reel with Hubbell HBL5969VBLK connector.	10	125	25 (7.6)	#16/3 SJT	1,250	8.5 (3.9)	HBLC25163C
Yellow Reel with wire leads.	10	125	25 (7.6)	#16/3 SJT	1,250	8.5 (3.9)	HBLC25163**

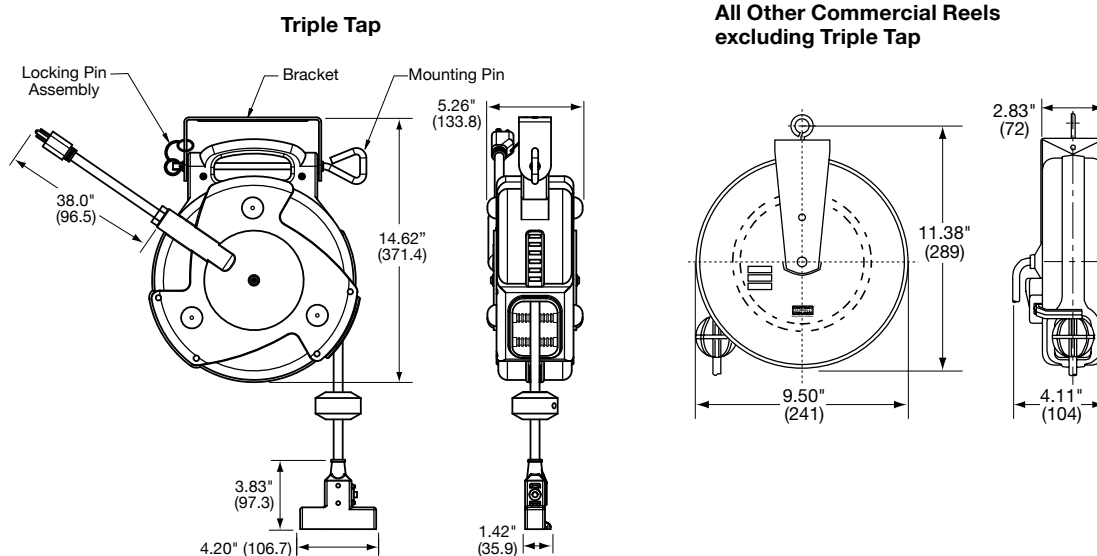
Note: Reels supplied with 2 ft. power supply cord and molded on straight blade 15A plug.
**UL Listed only.



Specifications

Listing/Certification	UL 355.
Environment	Dry, indoor, non-hazardous locations.
Incandescent Lamp	75 watt max., auto switch, no receptacle; 100 watt max. bulb, with receptacle.
Fluorescent Lamp	10A/1200W max. with in-line receptacle; 13 watt without receptacle.

Dimensions



Dimensions in Inches (mm)

Features and Benefits

Air/Water Hose Reels

- Constructed of rugged steel, baked polyester finish components
- Multi-position four roller guide and adjustable hose stop
- Spring rewind and ratchet lock
- Full flow shafts and swivels assure maximum product delivery



HBLHR2535



HBL50SD

Static Discharge Reels

- Steel construction
- Compact design minimizes required installation space
- Available with steel or nylon coated steel cable
- Large grounding jaw clamp provides low resistant ground termination



HBLHR2535



HBL50SD

Air/Water Hose Reels

Description	Cable Length Feet (m)	Max Pressure Psi	Frame Size	Input Hose Fitting (NPTF)	O.D. Inch (mm)	Weight Lbs. (kg)	Catalog Number
Low pressure 1/4" ID.	35 (10.7)	300	A	1/4	0.51 (13.0)	24 (10.9)	HBLHR2535
	50 (15.2)	300	B	1/4	0.51 (13.0)	26 (11.8)	HBLHR2550
Low pressure 3/8" ID.	25 (7.6)	300	A	3/8	0.65 (16.5)	23 (10.4)	HBLHR3825
	50 (15.2)	300	C	3/8	0.65 (16.5)	36 (16.3)	HBLHR3850
	70 (21.3)	300	E	3/8	0.65 (16.5)	50 (22.7)	HBLHR3870
Low pressure 1/2" ID.	35 (10.7)	300	C	3/8	0.77 (19.6)	38 (17.2)	HBLHR5035
	50 (15.2)	300	E	3/8	0.77 (19.6)	44 (20.0)	HBLHR5050

Static Discharge Reels

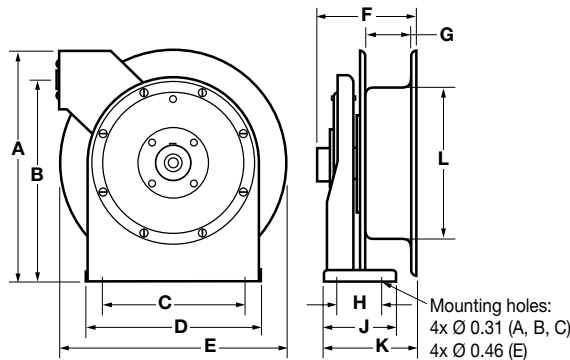
Description	Cable Length Feet (m)	Cable Type	Weight Lbs. (kg)	Catalog Number
Static discharge reel.	50 (15.2)	Single 3/32" Steel	12 (5.4)	HBL50SD
Static discharge reel.	50 (15.2)	Single 3/32" Steel Nylon Coated	13 (5.9)	HBL50SDN
Static discharge reel.	50 (15.2)*	Dual (Y) 3/32" Steel	13 (5.9)	HBL50YSD

Note: *35 ft. (10.6m) + Dual 15 ft. (4.5m) for "Y".

Dimensions

Frame size	A	B	C	D	E	F	G	H	J	K	L	M
A	12.88 (327)	11.25 (286)	8.00 (203)	9.88 (250)	12.13 (308)	5.50 (140)	2.50 (64)	2.50 (64)	4.00 (102)	5.09 (132)	8.38 (213)	—
B	14.50 (368)	12.81 (325)	9.75 (248)	11.25 (285)	13.75 (349)	6.19 (157)	3.16 (80)	2.50 (64)	4.00 (102)	5.88 (149)	8.38 (213)	—
C	17.50 (445)	15.63 (286)	9.75 (248)	11.25 (285)	16.50 (419)	6.19 (157)	3.16 (80)	2.50 (64)	4.00 (102)	5.88 (149)	10.25 (260)	—
E	20.38 (518)	18.12 (460)	7.88 (200)	9.45 (240)	19.00 (483)	6.63 (168)	3.35 (85)	3.86 (98)	5.43 (138)	6.10 (155)	11.00 (280)	9.5 (241)

Air/Water Hose Reels



Dimensions in Inches (mm)

Static Discharge Reel

