

## Insulgrip® Pin & Sleeve Devices

The interchangeable product line featuring metallic where you want it and nonmetallic where you need it.

# HUBBELL



[www.hubbell-wiring.com](http://www.hubbell-wiring.com)



Wiring Device-Kellems



## Hubbell Insulgrip® Pin & Sleeve Devices:

Interchangeability Frees  
You to Switch to the Best



**Panel Mount**—Flanged receptacles are ideal for directly mounting to a piece of machinery to power ancillary equipment.

**Bus Drop**—Superior and positive cord grip makes Insulgrip Pin & Sleeve an excellent choice for all bus drop applications.



**Back Box Mounted**—Where a surface mount receptacle is required Insulgrip Pin & Sleeve offers a broad line of back boxes to accommodate any industrial mounting requirement.

**Cordset**—Most industrial settings subject wiring devices to physical and chemical abuse. Insulgrip Pin & Sleeve is tough, chemical resistant and watertight to withstand such environments.



You always wanted Hubbell, but because your facility chose another brand long ago, you've been unable to justify making a change. Until now.

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

Hubbell's new line of heavy duty Insulgrip® Pin & Sleeve wiring devices not only offers complete interchangeability, it delivers the goods when it comes to superior design and construction. Hubbell Insulgrip Pin & Sleeve devices are engineered and built to handle today's most demanding work environments, making Hubbell the unsurpassed heavyweight in the heavy duty market.

### **Metallic Where You Want It, Nonmetallic Where You Need It**

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

What's more, Hubbell's new watertight Insulgrip Pin & 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 & Sleeve wiring devices.

### **What Does "Interchangeable" Mean to You?**

In 1997, UL introduced a configuration standard (UL 1686), which ensures safe, interchangeable electrical connections between the products of various pin and sleeve wiring device manufacturers. Previously, this was not possible in the all-metal, heavy duty pin and sleeve wiring device industry. Without standardization, plant personnel were often locked into using a single provider. Now, with the new UL standard and the arrival of Hubbell's new Insulgrip Pin & Sleeve wiring devices, interchangeability is a reality.

### **Performance and Ease of Use**

Insulgrip Pin & Sleeve wiring devices have all the special features and attention to detail that set Hubbell apart. In fact, after using them, you'll say they're anything but standard.

Together, Hubbell's nonmetallic housing, heavy duty cord grip and anti-vibration terminations provide a total product performance approach never before seen in the traditional all-metal pin and sleeve industry.

But, that's what people have come to expect of Hubbell Insulgrip Pin & Sleeve wiring devices: innovative thinking, superior performance and enduring quality. Now that they're interchangeable, isn't it time you changed to Hubbell?



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# Insulgrip Pin & Sleeve Grounding Method: Hubbell Offers Two Approaches

## Ground Path

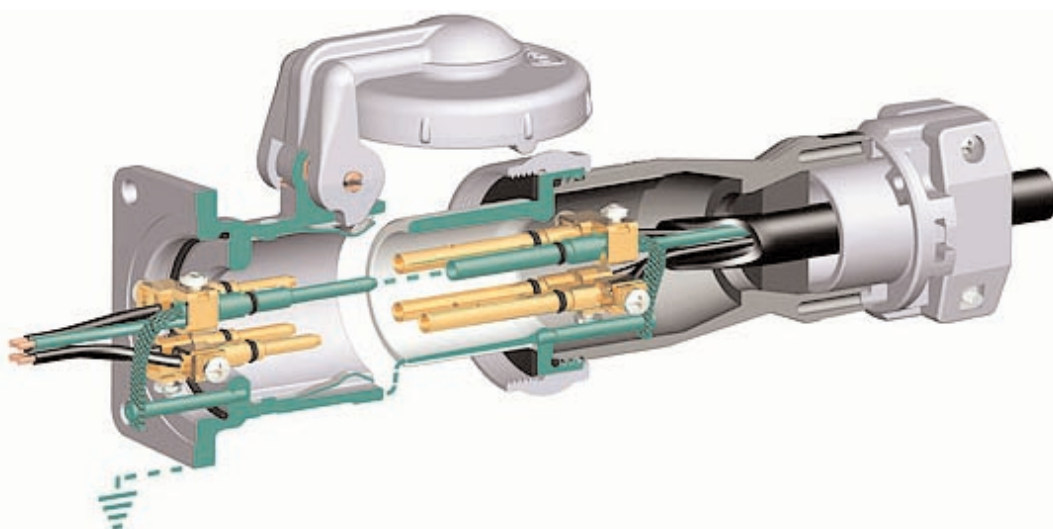
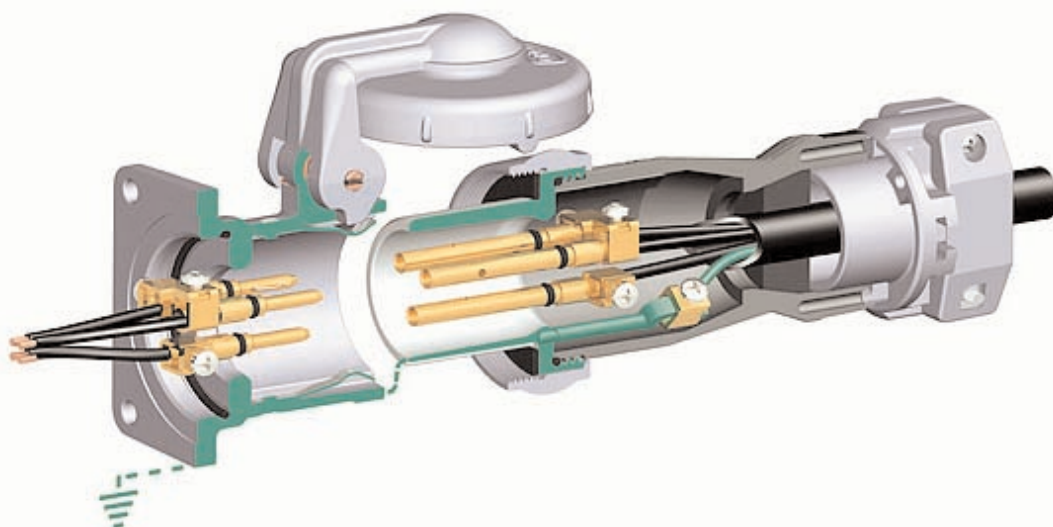
To reduce the likelihood of electrical shock, the National Electrical Code requires that noncurrent carrying metallic components be grounded. Insulgrip Pin & Sleeve wiring devices offer two styles of grounding.

### 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 3P4W 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 3P4W Style II illustration). This provides a second ground path in the event the primary ground path is disrupted. 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.







# Insulgrip Pin & Sleeve System:

## More Features for More Benefits in More Places

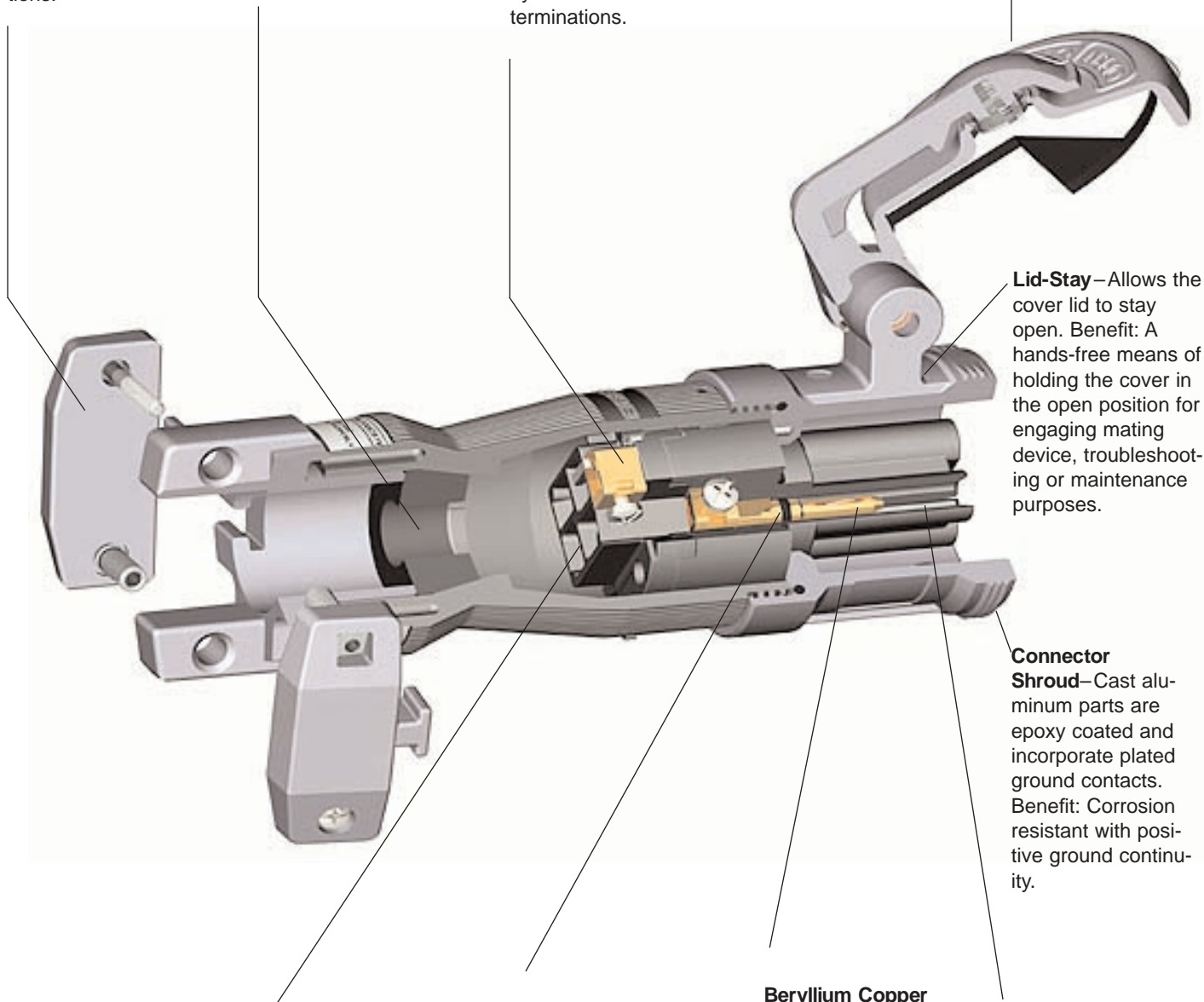
### Connector Features

**Heavy-Duty Cable Grips**—Handle a wide range of cable sizes to prevent conductor movement that can cause strain on the terminals. Benefit: Terminations are kept secure under adverse environmental conditions.

**Watertight Neoprene Sealing Glands**—Provide a reliable seal at the cable entry point. They are provided in graduated sizes for use with varying cable sizes. Benefits: Customized gland to ensure a watertight seal.

**Anti-Vibration Box Terminals**—Provide high-clamping pressure on conductors while preventing the terminations from loosening. Protects stranded conductors. Benefit: Risk of heat rise is minimized by vibration-resistant terminations.

**Spring-Loaded, Gasketed Cover**—Provides a UL Type 4X watertight, dust-tight seal on connectors and receptacles. Benefit: Keeps contamination out.



**Lid Stay**—Allows the cover lid to stay open. Benefit: A hands-free means of holding the cover in the open position for engaging mating device, troubleshooting or maintenance purposes.

**Connector Shroud**—Cast aluminum parts are epoxy coated and incorporate plated ground contacts. Benefit: Corrosion resistant with positive ground continuity.

**Terminal Pockets**—Provide wide, easy access to wiring chamber. Benefit: Faster, easier wiring for the installer.

**Pin O-Ring Seal**—Provides a watertight and dust-tight seal around the pins. Benefit: Assures that contamination will not enter wire chamber.

**Beryllium Copper Spring Pins**—Maintain high unit pressure on mating sleeves. Benefit: Ensures reliable electrical contact while minimizing heat rise due to pin wear over time.

**Pin Chamber**—Confines arcing within the interior chamber during make and break cycle of mating devices. Benefit: Minimizes arc tracking.



## Insulgrip Pin & Sleeve System: More Features for More Benefits in More Places Plug Features

### **Locking Ring—**

Provides a UL Type 4X watertight and dust-tight seal when the male and female devices are connected. Benefit: Ensures devices are properly mated and protected from outside environment.

### **Sleeve O-Ring Seal—**

Provides a watertight and dust-tight seal around the sleeves. Benefit: Assures that contamination will not enter wire chamber.

### **Thermoset Polyester Contact Carrier—**

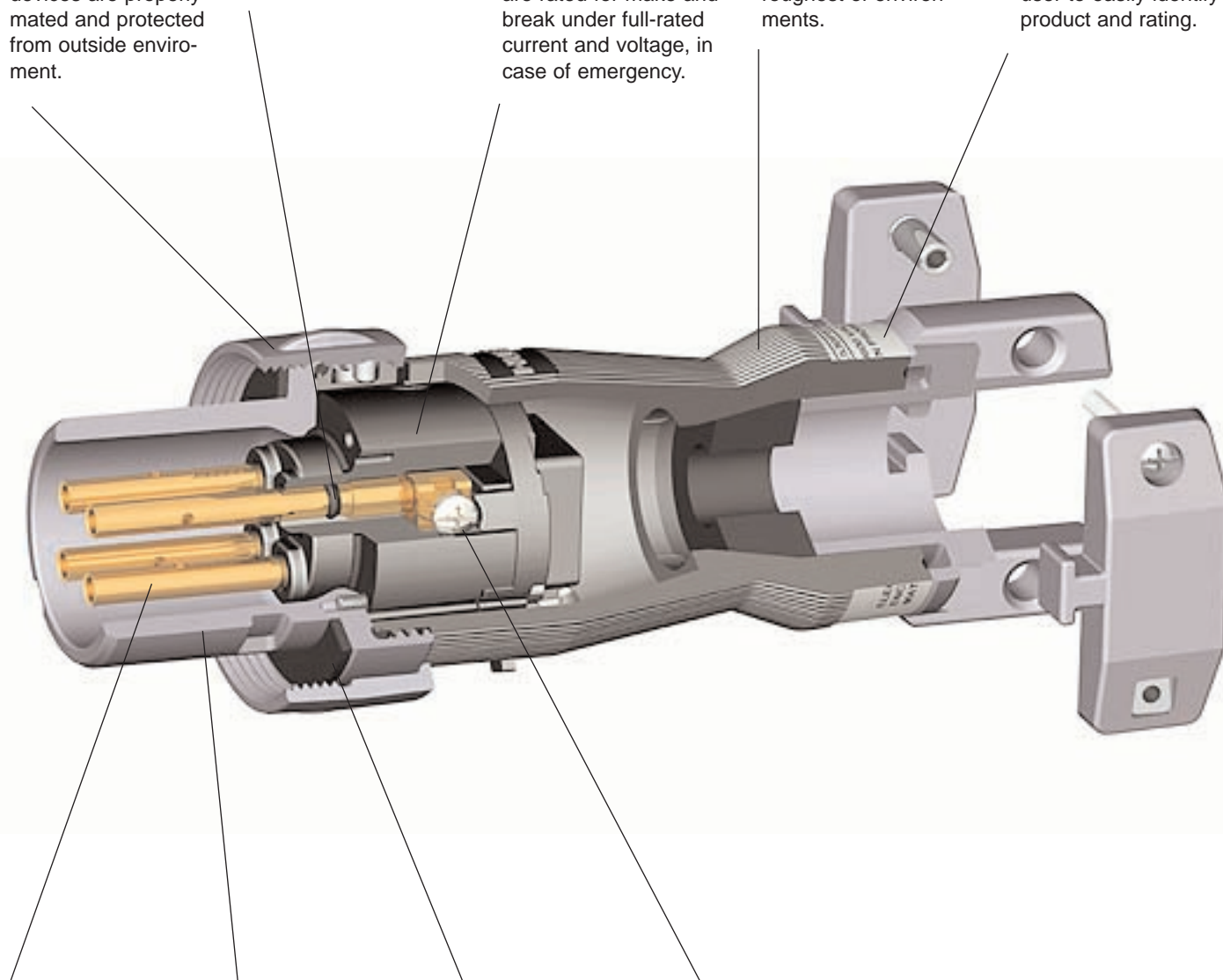
Resists arcing and internal heat build-up. Benefit: Prevents damage in the event of overheating. All devices are rated for make and break under full-rated current and voltage, in case of emergency.

### **Thermoplastic Nonmetallic Housing—**

Provides excellent insulating, impact, corrosion, and UV resistant properties. Benefit: Protects users and devices in the roughest of environments.

### **Product Marking—**

Catalog number and rating visible while in use. Markings are color coded differentiating Style I and Style II devices. Benefit: Helps user to easily identify product and rating.



### **All-Brass Sleeve Contacts—**

Provide reliable electrical contact with mating pins. Benefit: Ensures reliable electrical contact while minimizing heat rise due to sleeve wear over time.

### **Shrouding—**

Means that sleeves are recessed within the shrouded housing. Benefit: Sleeves are protected against impact and abuse, reducing the potential for a shock hazard.

### **Shroud/Housing Seal—**

Provides a watertight and dust-tight seal at the component part interface. Benefit: Keeps contamination out.

### **Terminal Screws—**

Combination phillips/slotted head design. Benefit: Accommodates various field assembly tools.

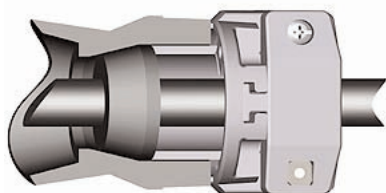


## Insulgrip Pin & Sleeve Components:

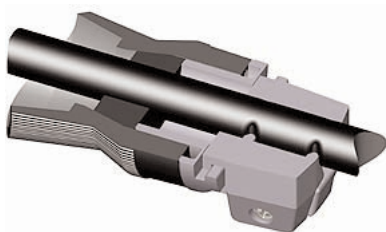
We Put More into Every Part, So You  
Get More When We Put Them Together



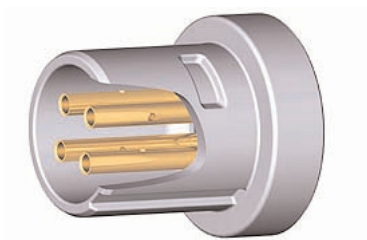
**Nonmetallic Housing**—The nonmetallic housing is not only abuse and corrosion resistant it offers additional protection against electrical shock hazard.



**Watertight Cord Entrance**—The tapered bore of the cord entrance creates high compression forces on sealing gland, allowing the cord grip assembly to be secured in place. Hubbell Pin & Sleeve devices are supplied with individual solid neoprene glands to match a full range of cord sizes and ensure a UL Type 4X watertight performance.



**Powerful Mechanical Cord Grip**—Hubbell's design incorporates two molded-in teeth to securely grip not only the outer cable jacket, but also all internal conductors to prevent slippage and strain on terminations. Captive barrel nuts ease assembly and allow higher tightening torque to be easily attained for maximum effectiveness. The large 300 series stainless steel screws readily accept common-size screwdrivers, and the molded-in cavity guides the screwdriver for easy tightening. The cord grip accommodates North American wire sizes, even when the cord is derated one size.



**Shrouded Sleeves**—The shroud protects contact sleeves from deforming from physical abuse. The design protects the user from the possibility of touching live contacts during insertion and withdrawal of mating parts.

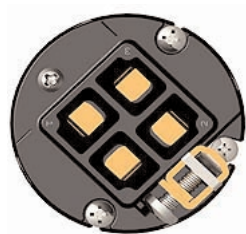


**Thermoset Polyester Contact Carrier**—Molded thermoset polyester provides high resistance to electrical tracking. Withstands higher temperatures which may result from overload or arcing. Thermoset properties provide dimensional stability for this critical assembly.

**Sealed Pins and Sleeves**—Each pin and sleeve is sealed against the environment with individual O-rings. This ensures that contaminants will not enter the wiring chamber.

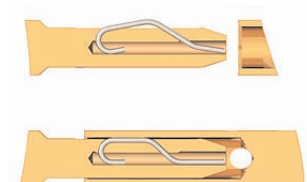


**Anti-Vibration Terminals**—Interlocking box terminals ensure that terminal screws remain secure and cannot loosen. The floating box is designed to obtain high-torque values without damaging stranded conductors.



**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.

**Identification**—Large markings allow for easy recognition. Identification is molded in, so that it's permanently legible.




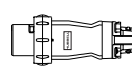
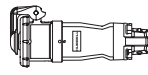











**Spring-Pin Design (Patent Pending)**—The design provides and maintains high unit pressure on mating sleeves to minimize temperature rise.




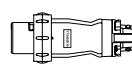
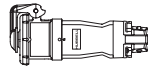








# Insulgrip Pin & Sleeve: Device Ordering Information

## Ordering Information

### Style I

AMPS	Poles & Wires	Receptacle/ Connector Configuration	Maximum Voltage AC/DC	 Receptacle	 Plug	 Connector	Replacement Interiors	
							Connectors & Receptacles	Plugs
30	2P3W		600/250	HBL330RS1W	HBL330PS1W	HBL330CS1W	IN330FS1	IN330MS1
30	3P4W		600/250	HBL430RS1W	HBL430PS1W	HBL430CS1W	IN430FS1	IN430MS1
30	4P5W		600/250	HBL530RS1W	HBL530PS1W	HBL530CS1W	IN530FS1	IN530MS1
60	2P3W		600/250	HBL360RS1W	HBL360PS1W	HBL360CS1W	IN360FS1	IN360MS1
60	3P4W		600/250	HBL460RS1W	HBL460PS1W	HBL460CS1W	IN460FS1	IN460MS1
60	4P5W		600/250	HBL560RS1W	HBL560PS1W	HBL560CS1W	IN560FS1	IN560MS1
100	2P3W		600/250	HBL3100RS1W	HBL3100PS1W	HBL3100CS1W	IN3100FS1	IN3100MS1
100	3P4W		600/250	HBL4100RS1W	HBL4100PS1W	HBL4100CS1W	IN4100FS1	IN4100MS1
100	4P5W		600/250	HBL5100RS1W	HBL5100PS1W	HBL5100CS1W	IN5100FS1	IN5100MS1
200	3P4W		600/250	HBL4200RS1W	HBL4200PS1W	HBL4200CS1W	IN4200FS1	IN4200MS1
200	4P5W		600/250	HBL5200RS1W	HBL5200PS1W	HBL5200CS1W	IN5200FS1	IN5200MS1

### Style II

AMPS	Poles & Wires	Receptacle/ Connector Configuration	Maximum Voltage AC/DC	 Receptacle	 Plug	 Connector	Replacement Interiors	
							Connectors & Receptacles	Plugs
30	2P3W		600/250	HBL330RS2W	HBL330PS2W	HBL330CS2W	IN330FS2	IN330MS2
30	3P4W		600/250	HBL430RS2W	HBL430PS2W	HBL430CS2W	IN430FS2	IN430MS2
60	2P3W		600/250	HBL360RS2W	HBL360PS2W	HBL360CS2W	IN360FS2	IN360MS2
60	3P4W		600/250	HBL460RS2W	HBL460PS2W	HBL460CS2W	IN460FS2	IN460MS2
100	2P3W		600/250	HBL3100RS2W	HBL3100PS2W	HBL3100CS2W	IN3100FS2	IN3100MS2
100	3P4W		600/250	HBL4100RS2W	HBL4100PS2W	HBL4100CS2W	IN4100FS2	IN4100MS2
200	2P3W		600/250	HBL3200RS2W	HBL3200PS2W	HBL3200CS2W	IN3200FS2	IN3200MS2
200	3P4W		600/250	HBL4200RS2W	HBL4200PS2W	HBL4200CS2W	IN4200FS2	IN4200MS2

#### Catalog Numbering System

EXAMPLE: HBL430RS2W

Manufacturer	No. of Wires	Amperage	Device Type	Grounding Style	Environment
HBL = Hubbell	3 = 2P3W 4 = 3P4W 5 = 4P5W	30 = Amp 60 = Amp 100 = Amp 200 = Amp	R = Receptacle P = Plug C = Connector	S1 = Style I S2 = Style II	W = Watertight, UL Type 4X

#### New Pole & Wire Terminology

Style I			Style II		
New	Old	No. of Contacts	New	Old	No. of Contacts
2P3W	2W2P	2	2P3W	2W3P	3
3P4W	3W3P	3	3P4W	3W4P	4
4P5W	4W4P	4			



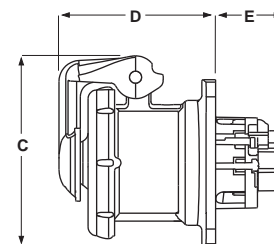
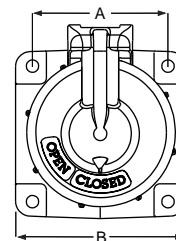


# Insulgrip Pin & Sleeve: Device Dimensions

## Dimensions

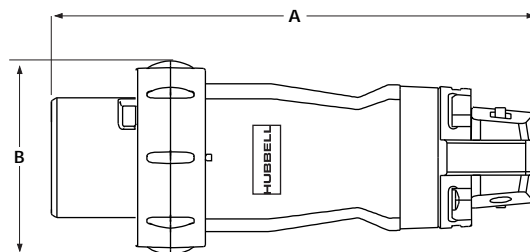
### Receptacle Dimensions—Inches (mm)

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)	4.70 (119)	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)	4.70 (119)	4.70 (119)	5.30 (135)	5.30 (135)	1.54 (39)	1.54 (39)
	5100R	3.50 (89)		4.25 (108)		4.70 (119)		5.30 (135)		1.54 (39)	



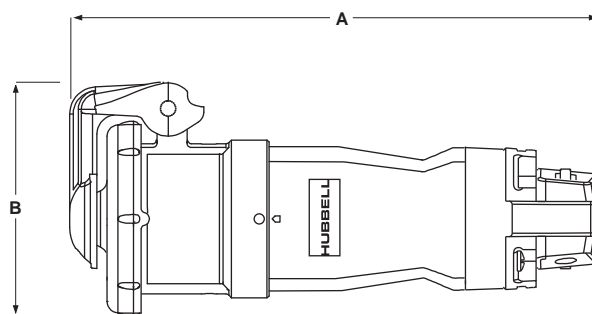
### Plug Dimensions—Inches (mm)

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)	9.60 (244)	3.40 (86)	3.70 (94)	.500-1.45 (12.7-36.8)
	560P	9.60 (244)		3.70 (94)		.500-1.45 (12.7-36.8)
100	3100P	10.70 (272)	10.70 (272)	3.70 (94)	3.70 (94)	1.065-1.94 (27.0-49.3)
	4100P	10.70 (272)	10.90 (277)	3.70 (94)	4.00 (102)	1.065-1.94 (27.0-49.3)
	5100P	10.90 (277)		4.00 (102)		1.065-1.94 (27.0-49.3)



### Connector Dimensions—Inches (mm)

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)	1.065-1.94 (27.0-49.3)
	4100C	11.70 (297)	11.90 (302)	4.50 (114)	4.70 (119)	1.065-1.94 (27.0-49.3)
	5100C	11.90 (302)		4.70 (119)		1.065-1.94 (27.0-49.3)



Consult factory for 200 Amp dimensions



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# Insulgrip Pin & Sleeve: Accessories Ordering Information

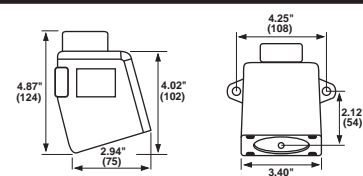
## Ordering Information

### Insulgrip Pin & Sleeve

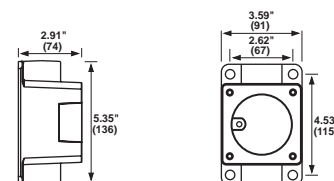
#### Back Box

Description	Amps	Cat. No.	Hub Size
15° Angle	30	<b>MB301W</b>	3/4"
15° Angle	30	<b>MB302W</b>	1"
Straight Feed thru	30	<b>MB303W</b>	3/4"
Straight Feed thru	30	<b>MB304W</b>	1"
15° Angle	60	<b>MB601W</b>	1"
15° Angle	60	<b>MB602W</b>	1 1/4"
15° Angle	60	<b>MB603W</b>	1 1/2"
Straight Feed thru	60	<b>MB604W</b>	1"
Straight Feed thru	60	<b>MB605W</b>	1 1/4"
Straight Feed thru	60	<b>MB606W</b>	1 1/2"
Four Way 15° Angle	60/100	<b>MB601002W</b>	1 1/4"
Four Way 15° Angle	60/100	<b>MB601003W</b>	1 1/2"
Four Way 15° Angle	60/100	<b>MB601004W</b>	2"
Four Way Feed Thru 15° Angle	60/100	<b>MB601006W</b>	1 1/4"
Four Way Feed Thru 15° Angle	60/100	<b>MB601007W</b>	1 1/2"
Four Way Feed Thru 15° Angle	60/100	<b>MB601008W</b>	2"
Four Way 15° Angle	200	<b>MB2003W</b>	2"
Four Way 15° Angle	200	<b>MB2004W</b>	2 1/2"

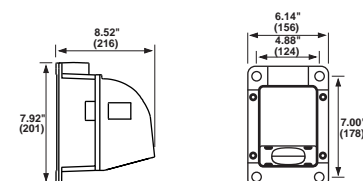
Angle



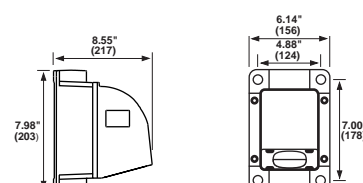
Straight Feed Thru



Four-Way Angle



Four-Way Feed Thru Angle



### Replacement Cord Clamp Kits

Description	Cat. No.
30A Plugs & Connector	<b>CC3430</b>
60A Plugs & Connectors	<b>CC60</b>
100A Plugs & Connectors	<b>CC100</b>

### Insulgrip Pin & Sleeve Liquid-tight Adaptor

Rating of device	Liquid-tight Conduit Size	Hubbell Liquid-tight Adaptor Cat. No.	Optional Kellems Liquid-tight Conduit Grip Cat. No.
30 Amp 3, 4 & 5 Wire	1/2"	<b>SAB12</b>	074-09-3402
	3/4"	<b>SAB34</b>	074-09-3403
	1"	<b>SAB100</b>	074-09-3404
60 Amp 3, 4 & 5 Wire	1"	<b>SAC100</b>	074-09-3404
	1 1/4"	<b>SAC125</b>	074-09-3405
100 Amp 3, 4, & 5 Wire	1 1/4"	<b>SAD125</b>	074-09-3405
	1 1/2"	<b>SAD150</b>	074-09-3406
	2"	<b>SAD200</b>	074-09-3408

CC3430



074-09-3403



SAB34



### PLUGOUT

Description	Cat. No.
Electrical Plug Lockout Device accepts all major brands of metallic and nonmetallic pin and sleeve devices up to and including 60 Amp (and up to 100 Amp Insulgrip Pin and Sleeve devices) as a method of compliance to OSHA regulation 29 CFR 1910.147.	<b>HLD2</b>

HLD2





# Insulgrip Pin & Sleeve: Technical Information

## Materials (30, 60, 100 amp)

Part	Material
<b>Plug</b>	
Housing	Valox® 357 (200 Amp Aluminum)
Plug Shroud	Aluminum
Cord Clamps	Rynite® SST35
Clamp Nut	Nickel Plated Brass
Gland Cap	Rynite SST35
Gland	Neoprene
O-Rings, Gaskets & Seals	Neoprene
Contact Carrier	Thermoset Polyester
Retainer	Thermoset Polyester
Sleeves	Brass
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

Housing	Valox 357 (200 Amp Aluminum)
Connector Shroud	Epoxy Painted Aluminum
Cord Clamps	Rynite SST35
Clamp Nut	Nickel Plated Brass
Gland Cap	Rynite SST35
Gland	Neoprene
O-Rings, Gaskets & Seals	Neoprene
Contact Carrier	Thermoset Polyester
Retainer	Thermoset Polyester
Pin	Brass
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
Pin Spring	Beryllium Copper
Box Terminal	Heat Treated & Zinc Plated Steel
Screws (Terminal, Assembly & Set)	Stainless Steel (300 Series)
Ground Standoff	Brass
Ground Bracket	Steel
Cover	Epoxy Painted Aluminum
Cover Arm	Epoxy Painted Aluminum
Spring Guide	Stainless Steel (300 Series)
Springs (Arm & Wave)	Stainless Steel (300 Series)
Spring Washer	Stainless Steel (300 Series)
Hinge Bushing	Aluminum
Rivet	Aluminum

Valox is a registered Trademark of GE Corp.  
Rynite is a registered Trademark of Dupont Corp.

## Typical Specification

**Manufacturer's Identification** Hubbell HBL430PS2W

**Description** Plug, Power Supply

**Type** 3 Pole + Earth

**Rating** 30 Amp, 250 VDC, 600 VAC

**Configuration** UL 1686, Watertight

**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, CSA Certified Type 4X

## Performance

### Electrical

Dielectric Voltage Withstand	3,000 Volts
Max. Working Voltage	600 Volts RMS (i.e., minimum creepage and clearance distance of 6.4 millimeters, per UL1682)
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	1,000 connect and disconnect cycles at full rated current and voltage

### Mechanical

Impact Resistance	Per CSA C22.2, No. 182.1, Paragraph 7.4.2 UL 1682 section 34
Cord Grip Cable Retention	Per CSA C22.2, No. 182.1, Paragraph 7.3.1 to 7.3.4, UL 1682 Section 33
Cord Accommodation	Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, CSA C22.2 No. harmonized (HAR) European
49 and the Standards	
Terminal Identification	Terminals identified in accordance with UL1682 (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 50 and CSA 22.2, No. 94
Flammability (Enclosure)	V0 per UL 94 or CSA C22.2 No. 0.6
Operating Temperatures	Maximum Continuous 60° C Minimum - 40° C w/o impact
Hazardous Location (plug only)	Class I Groups B, C & D, Class II Groups F & G per UL 1010 & CSA 22.2, No. 159

### Materials

Housings	Valox 357
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



Wiring Device-Kellems



## HUBBELL INCORPORATED WORLDWIDE LOCATIONS

### Wiring Device - Kellems

- **Wiring Device-Kellems**  
185 Plains Road  
Milford, CT 06460-2420  
(203) 882-4800 (Phone)  
(203) 882-4849 (FAX)
- **Central Regional Office**  
4300 Commerce Ct  
Suite 220  
Lisle, IL 60532-3601  
(630) 955-5880 (Phone)  
(630) 955-9030 (FAX)
- **Western Regional Office**  
2880 Sunrise Blvd. Suite 139  
Rancho Cordova, CA 95742-6548  
(916) 858-8027 (Phone)  
(916) 858-8028 (FAX)
- **Northeast Regional Office**  
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West Chester, PA 19382  
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(610) 436-9654 (FAX)
- **Southern Regional Office**  
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Suite #100  
Marietta, GA 30062  
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**Hubbell Canada Inc.**  
Pickering, Ontario, Canada

**Wiring Device-Kellems**  
Milford, CT

**Central Regional Office**  
Lisle, IL

**Western Regional Office**  
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**Northeast Regional Office**  
West Chester, PA

**Hubbell De Mexico, S.A. De C.V.**  
Mexico City Mexico

**Southern Regional Office**  
Marietta, GA

**Harvey Hubbell Ltd.**  
Bedford, England

**Hubbell International Inc.**  
Seoul, Korea

**Hubbell-Taian Co., Ltd.**  
Taipei, Taiwan

**Hubbell Middle East**  
Dubai, U. A. E.

**Harvey Hubbell S.E. Asia PTE. LTD.**  
Republic of Singapore

**Hubbell Turkey**  
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### International Offices

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011(441) 234-854008 (FAX)
- ◆ **Harvey Hubbell S.E. Asia PTE. LTD.**  
159 Sing Ming Road  
#05-08 Amtech Building  
Singapore 575625  
011 (65) 454-4772 (Phone)  
011 (65) 454-4775 (FAX)
- ◆ **Hubbell Canada Inc.**  
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Pickering, Ontario, Canada  
L1W 1Z8  
(905) 839-1138 (Phone)  
(905) 839-9108 (FAX)
- ◆ **Hubbell Middle East**  
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Dubai-U.A.E.  
011(9714) 369763 (Phone)  
011(9714) 360541 (FAX)
- ◆ **Hubbell De Mexico, S.A. De C.V.**  
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Col. Del Valle  
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011(525) 559-8626 (FAX)
- ◆ **Hubbell International, Inc., Korea Branch**  
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1115-8 Hwangok-Dong, Kangseo-Ku  
Seoul, Korea 157-010  
011(822) 607-1362/5 (Phone)  
011(822) 603-7386 (FAX)
- ◆ **Hubbell-Taian-Co., Ltd.**  
12th Floor, 66, Sec. 2  
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- ◆ **Hubbell Turkey**  
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#### Key

- **Hubbell Domestic Offices**
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