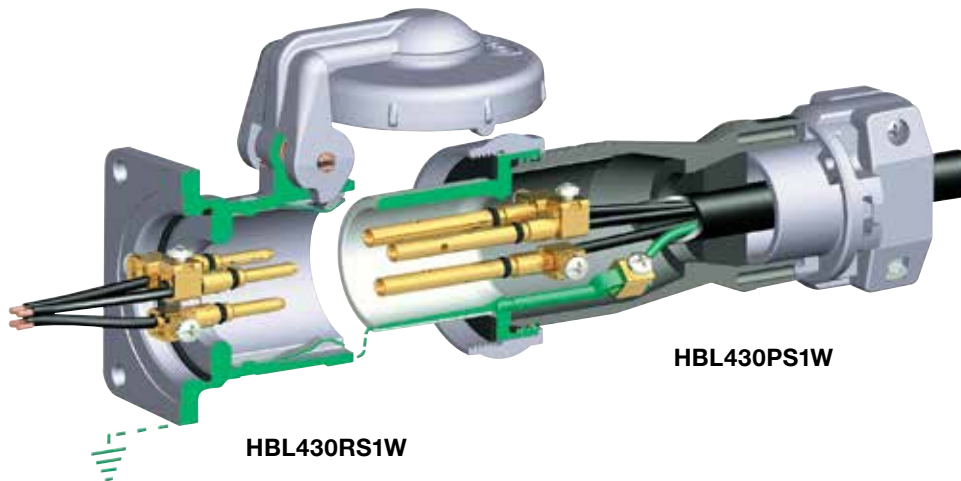


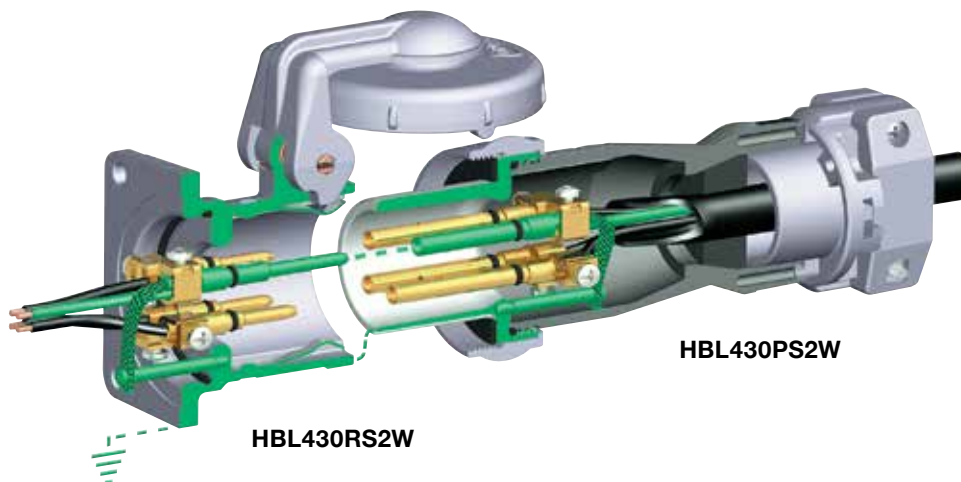
## Ground Path

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.

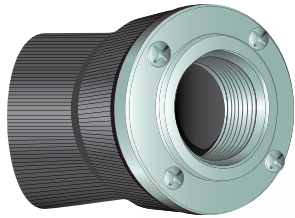
## New Pole and Wire Terminology

| 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               |          |       |                 |

# UL 1686 C1 Pin and Sleeve

## Insulgrip® Pin and Sleeve Devices

Features and Benefits



### Liquidtight Conduit Adapters

Machined aluminum adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of Hubbell Pin and Sleeve plug or connector

### Watertight Neoprene Sealing Glands

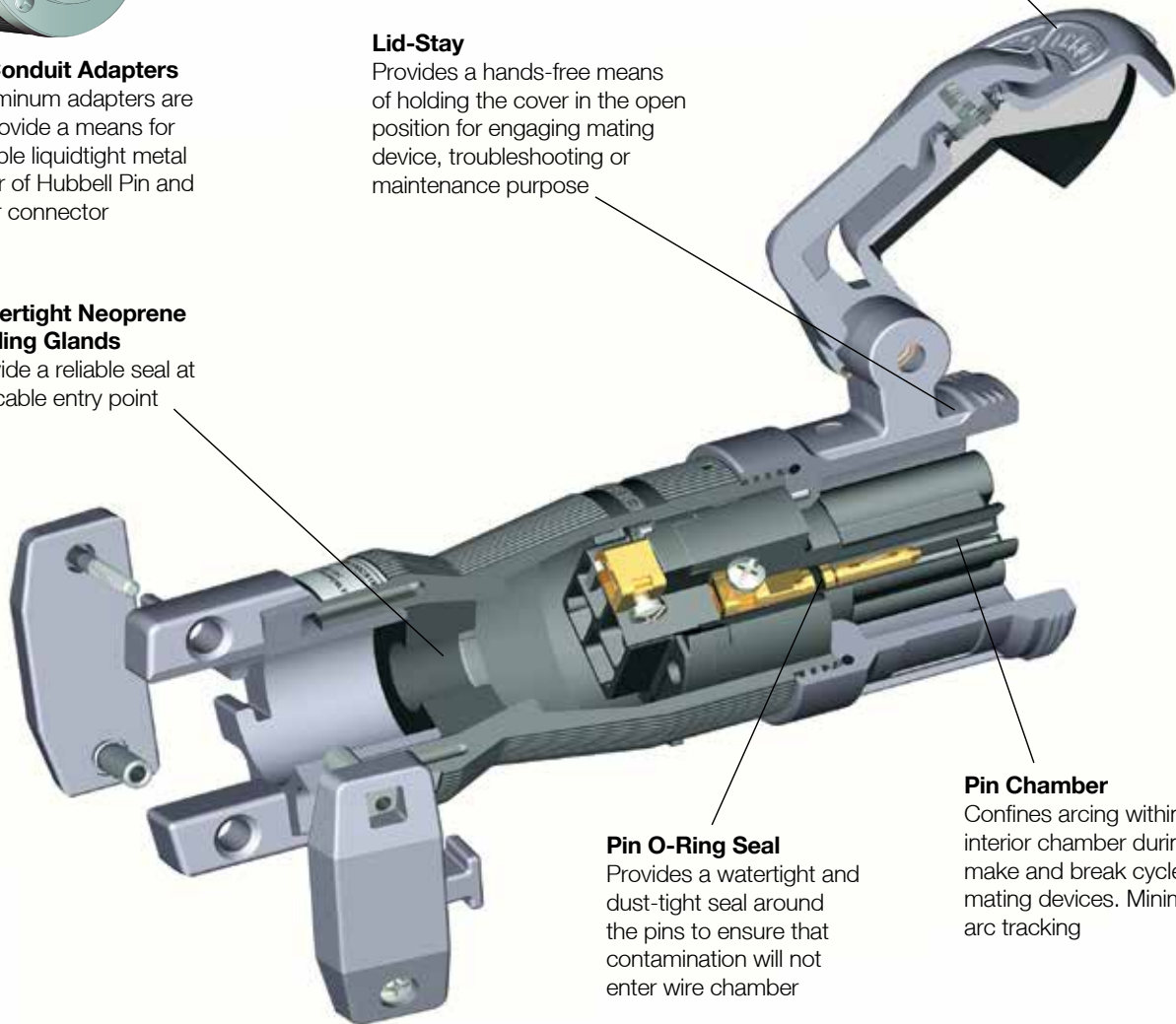
Provide a reliable seal at the cable entry point

### Lid-Stay

Provides a hands-free means of holding the cover in the open position for engaging mating device, troubleshooting or maintenance purpose

### Spring-Loaded, Gasketed Cover

Provides a UL Type 4X watertight, dust-tight seal on connectors and receptacles



### Pin O-Ring Seal

Provides a watertight and dust-tight seal around the pins to ensure that contamination will not enter wire chamber

### Pin Chamber

Confines arcing within the interior chamber during make and break cycle of mating devices. Minimizes arc tracking



### Powerful Mechanical Cord Grip

Hubbell's design incorporates two molded-in teeth to securely grip the outer cable jacket, and internal conductors to prevent slippage and strain on terminations. Captive barrel nuts ease assembly and allow higher tightening torque for maximum cord retention.



### Watertight Cord Entrance

The tapered bore entrance creates high compression forces on sealing gland, providing a watertight seal around cord. Individual solid neoprene glands are supplied to match a full range of cord sizes and assure watertight performance.



### 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.



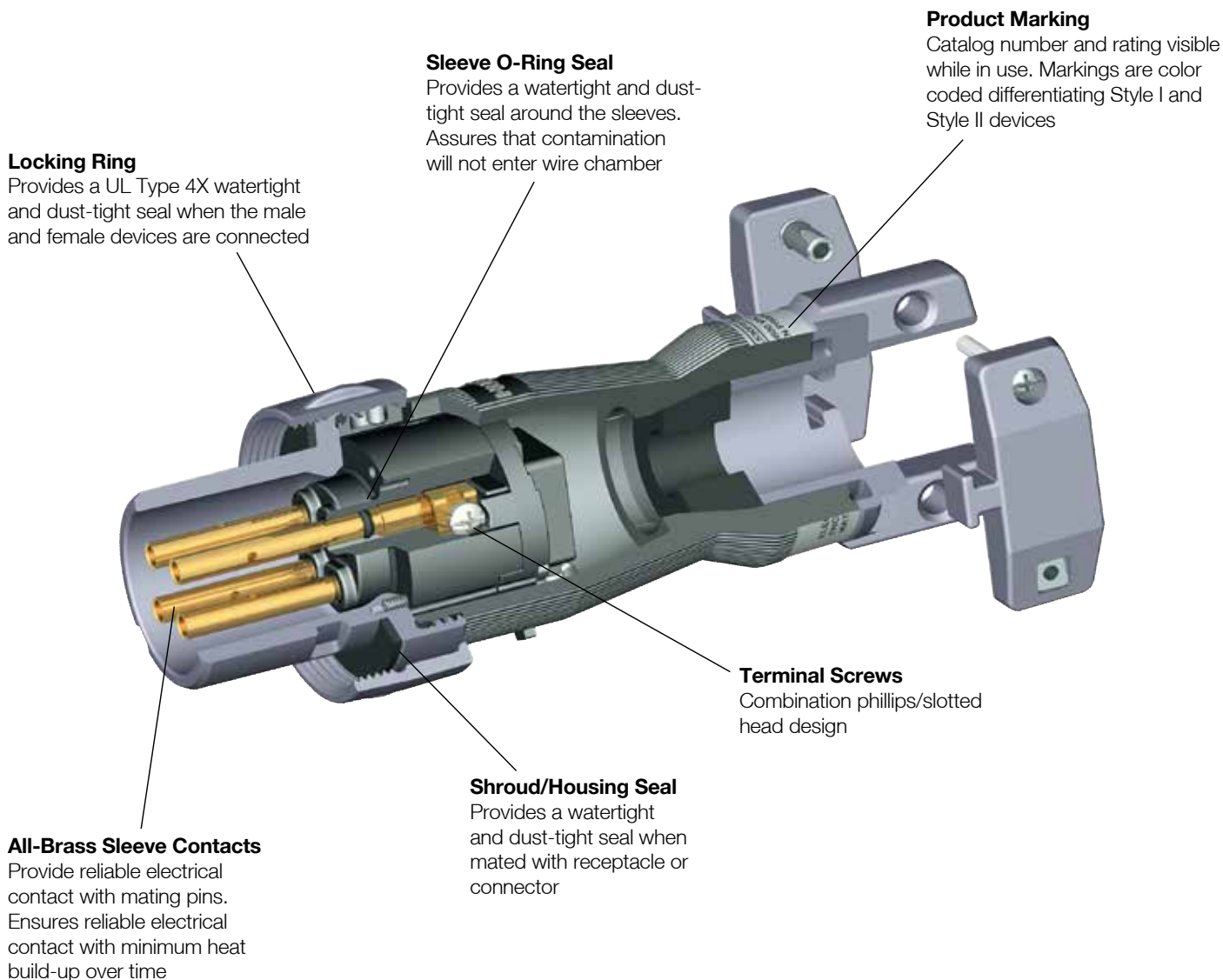
### Terminal Entrance Holes

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.

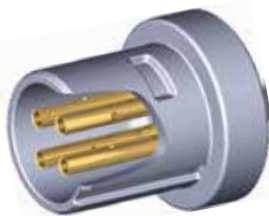
# UL 1686 C1 Pin and Sleeve

## Insulgrip® Pin and Sleeve Devices

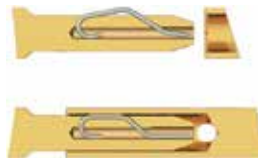
Features and Benefits



**Thermoplastic Housing**  
Provides excellent insulating, impact, corrosion, and UV resistant properties. Protects users and internal components in the roughest of environments.



**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.



**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.



**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.

| Rating |                 |                                                                                     |                       | Style I Devices                                                                                 |                                                                                           |                                                                                                 | Replacement Interiors                                                                                         |                                                                                             |
|--------|-----------------|-------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Amps   | Poles and Wires | Receptacle/Connector Configuration*                                                 | Maximum Voltage AC/DC | <br>Receptacle | <br>Plug | <br>Connector | <br>Connector & Receptacle | <br>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 | <br>Receptacle | <br>Plug | <br>Connector | <br>Back Boxes | <br>Angle Adapter |
| 200    | 4P 5W           |  | 600/250               | M5200RS1                                                                                          | M5200PS1                                                                                    | M5200CS1                                                                                          | MB2003W<br>MB2004W                                                                                  | AA20045                                                                                                |

Note: \***CAUTION:** To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

\*\*While in use or with cover closed.

†Consult factory.

Corrosion resistant cord sets are available on page Y-17 of this catalog.



| Rating |                 |                                                                                     |                       | Style I Devices                                                                                 |                                                                                           |                                                                                                  | Replacement Interiors                                                                                         |                                                                                             |
|--------|-----------------|-------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Amps   | Poles and Wires | Receptacle/Connector Configuration*                                                 | Maximum Voltage AC/DC | <br>Receptacle | <br>Plug | <br>Connector | <br>Connector & Receptacle | <br>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 |                 |                                                                                     |                       | 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 |                 |                                                                                     |                       | Corrosion Resistant Devices                                                                       |                                                                                              |                                                                                                    | Accessories                                                                                         |                                                                                                        |
|--------|-----------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Amps   | Poles and Wires | Receptacle/Connector Configuration*                                                 | Maximum Voltage AC/DC | <br>Receptacle | <br>Plug | <br>Connector | <br>Back Boxes | <br>Angle Adapter |
| 200    | 4P 5W           |  | 600/250               | M5200BS1R                                                                                         | M5200CS1R                                                                                    | —                                                                                                  | MB2003W<br>MB2004W                                                                                  | AA20045                                                                                                |

Note: **\*CAUTION:** To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

\*\*While in use or with cover closed.

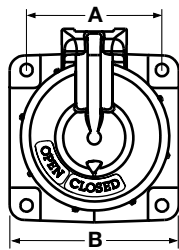
†Consult factory.

Corrosion resistant cord sets are available on page Y-17 of this catalog.

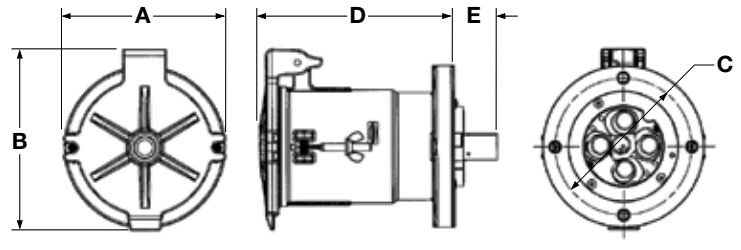
# UL 1686 C1 Pin and Sleeve Insulgrip® Pin and Sleeve Device Dimensions

## 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)  |            |



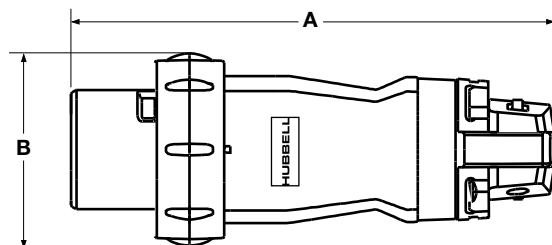
30, 60 and 100 Amp



200 Amp

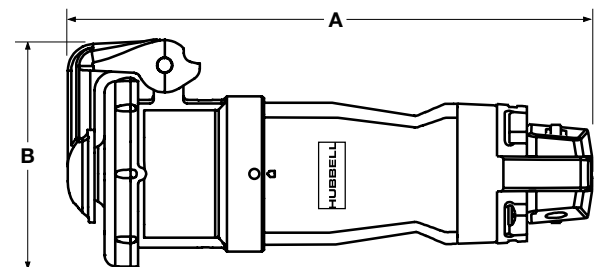
## Plug Dimensions

| 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) |



Dimensions in Inches (mm)

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

| Plug                              | Material                                          |
|-----------------------------------|---------------------------------------------------|
| Housing                           | Valox® 357 (200A Aluminum)                        |
| Plug Shroud                       | Aluminum                                          |
| Cord Clamps                       | Rynite® SST35 (200A Aluminum)                     |
| Clamp Nut                         | Nickel Plated Brass                               |
| Gland Cap                         | Rynite® SST35                                     |
| Gland                             | Neoprene                                          |
| O-Rings, Gaskets & Seals          | Neoprene                                          |
| Contact Carrier                   | Thermoset Polyester                               |
| Retainer                          | Thermoset Polyester                               |
| Sleeves                           | Brass (M-Series - Nickel-plated tellurium copper) |
| Box Terminal                      | Heat Treated & Zinc Plated Steel                  |
| Screws (Terminal, Assembly & Set) | Stainless Steel (300 Series)                      |
| Ground Standoff                   | Brass                                             |
| Ground Bracket                    | Nickel Plated Spring Bronze                       |
| Locking Ring                      | Epoxy Painted Aluminum                            |

**Connector Body**

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

**Receptacle**

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| Housing/Flange                    | Epoxy Painted Aluminum                            |
| O-Rings, Gaskets & Seals          | Neoprene                                          |
| Contact Carrier                   | Thermoset Polyester                               |
| Retainer                          | Thermoset Polyester                               |
| Pin                               | Brass (M-Series - Nickel-plated tellurium copper) |
| Pin Spring                        | Beryllium Copper                                  |
| Box Terminal                      | Heat Treated & Zinc Plated Steel                  |
| Screws (Terminal, Assembly & Set) | Stainless Steel (300 Series)                      |
| Ground Standoff                   | Brass                                             |
| Ground Bracket                    | Steel                                             |
| Cover                             | Epoxy Painted Aluminum                            |
| Cover Arm                         | Epoxy Painted Aluminum                            |
| Spring Guide                      | Stainless Steel (300 Series)                      |
| Springs (Arm & Wave)              | Stainless Steel (300 Series)                      |
| Spring Washer                     | Stainless Steel (300 Series)                      |
| Hinge Bushing                     | Aluminum                                          |
| Rivet                             | Aluminum                                          |

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

**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**

|                           |                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical</b>         |                                                                                                                                                                           |
| 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.                                                                                              |
| <b>Mechanical</b>         |                                                                                                                                                                           |
| 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            | Valox® 357 (200A Aluminum).                 |
| All Other Materials | Resistant to corrosion and chemical attack. |

**Watertight Application Guide**

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