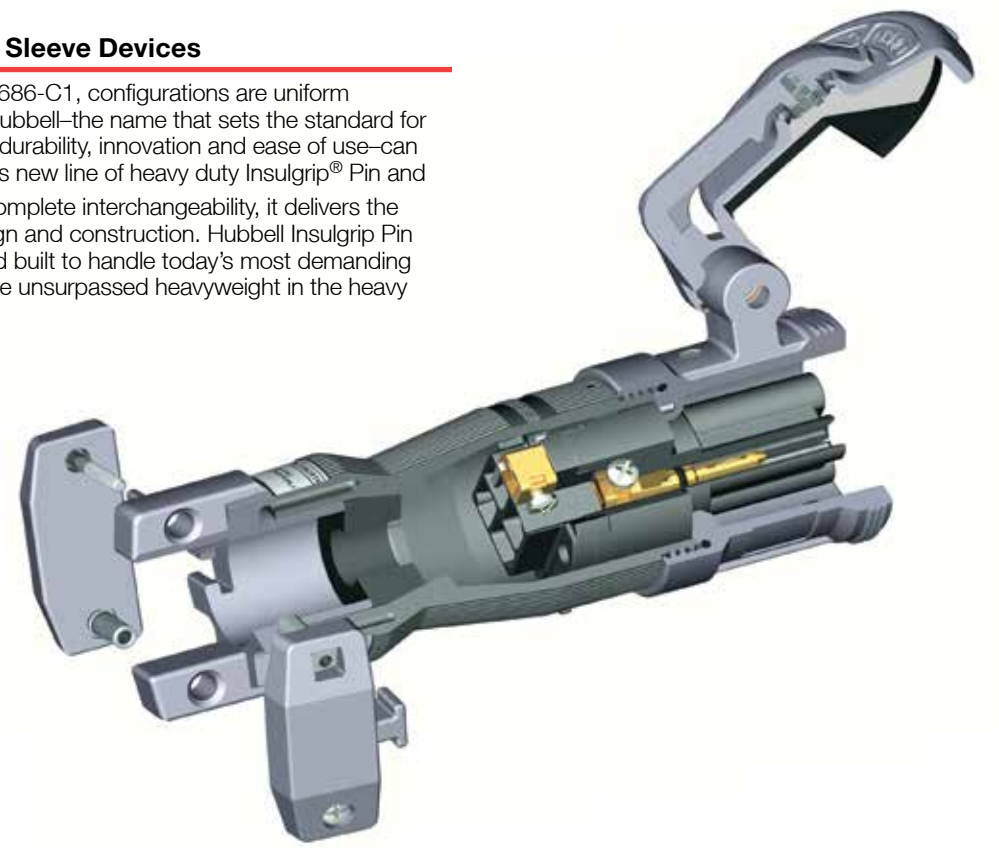
TYPE 4X

## Features and Benefits

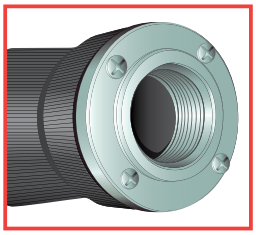
### UL 1686 C1 Insulgrip® Pin and Sleeve Devices

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 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**

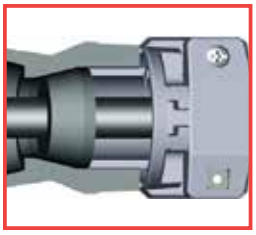
- Machined aluminum adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of Hubbell Pin and Sleeve plug or connector

**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

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### 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 new 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
- Shrouded sleeves protects contact sleeves from deforming from physical abuse

**Interior Design**

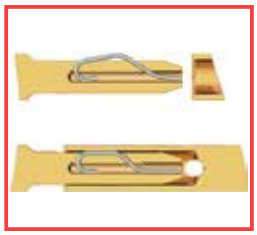
- Sleeve O-ring seal provides a watertight and dust-tight seal around the sleeves. Assures that contamination will not enter wire chamber
- All-brass sleeve contacts provide reliable electrical contact with mating pins, also with minimum heat build-up over time

**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

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