

# PowerMate™ drilling pin and sleeve connectors







# Safe. Reliable. Fast. Connections

The ideal rig power connection solution

- Longer product life
- Enhanced safety
- Reduced maintenance
- Easy to install

# PowerMate™ Series

Drilling rig pin and sleeve power connections



PowerMate™ is designed to support the modularity of drilling rig systems by providing safe and reliable power connections for rigging-up and rigging-down equipment quickly and efficiently.

#### The ideal rig power connection solution

- Longer product life
- Reduced maintenance
- Enhanced safety
- Easy-to-install

#### Compatible with all UL1686 Listed plugs and receptacles

- Eaton's Crouse-Hinds Arktime®
- Appleton Powertite®
- Killark VersaMate®

#### Application

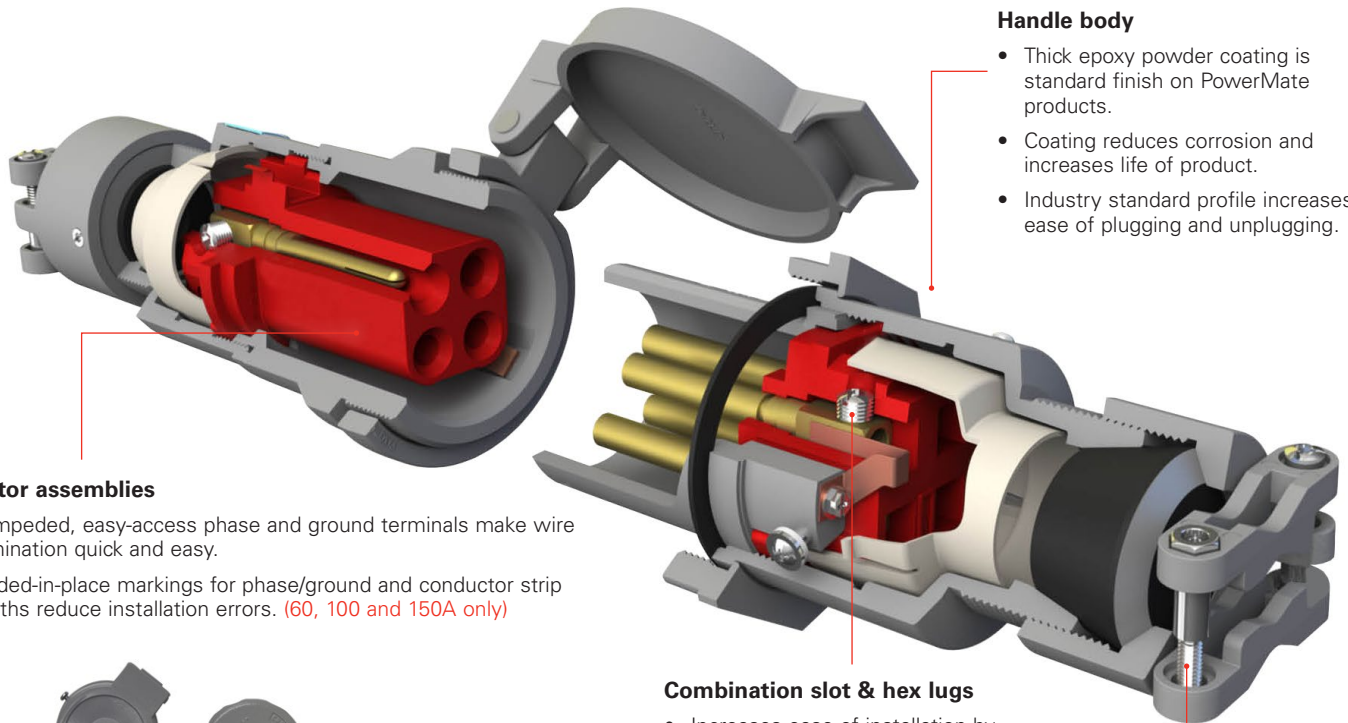
- On SCR/VFD houses to provide power to rig equipment such as shakers, agitators, lighting circuits, mud pumps, motors, etc.
- Quickly and efficiently connect power during rig-ups and disconnect power during rig-downs

#### EXCLUSIVE FEATURES

- Lockout plug
- Fixed safety insulator
- Diamond cable clamp
- Split pin contacts
- Suited for use with Type P cable



# Specifications & features



## Handle body

- Thick epoxy powder coating is standard finish on PowerMate products.
- Coating reduces corrosion and increases life of product.
- Industry standard profile increases ease of plugging and unplugging.

## Insulator assemblies

- Unimpeded, easy-access phase and ground terminals make wire termination quick and easy.
- Molded-in-place markings for phase/ground and conductor strip lengths reduce installation errors. (60, 100 and 150A only)



## Spring and threaded cover options

- Each 30, 60, 100 and 150A receptacle comes with both spring cap and threaded cap to provide a variety of cover options.
- 200A comes with spring cap and wing nuts to ensure environmental sealing.

## Combination slot & hex lugs

- Increases ease of installation by allowing for more than one option for installation tools.
- Hex head allows for easy achievement of specified torque value.

## Combination drive stainless steel hardware

- Increases ease of installation by allowing for more than one option for installation tools.
- Stainless steel external hardware eliminates corrosion on critical components and extends product life.

## Extended cable range

- Industry's largest cable diameter range.
- Specifically designed, third party tested and certified for use with Type P cable.
- Sealing system utilizes industry standard bushings.



## Enhanced nomenclature and nameplate

- Easily understandable nomenclature increases ease of part configuration identification.
- Mechanically attached nameplate ensures that critical information is permanently fixed to product.



## Exclusive features



### 8-point diamond cable clamps

- 8 points of contact around diameter of cable for increased grip and even distribution of pressure.
- Cable jacket does not get pinched, eliminating potential for damage to internal conductors.



### Lockout plug

- Guarantees isolated power supply with OSHA compliant lockout/tagout.
- Ensures plug cannot be inserted into receptacle when maintenance is being performed downstream of power supply.



### Split pin contact design

- Provides nearly 360° of contact at every insertion, ensuring protection against heat rise and eliminating arcing on critical surfaces.
- Self-wiping at every insertion to remove foreign particles that create electrical resistance and product failure.



### Fixed safety insulator

- Prevents electrical shock and shorts with plastic barrier between insulator body and metal housing.
- Fixed-in-place design ensures insulator will not be lost or discarded during cable termination process. (30, 60, 100 and 150A only)

## Electrical ratings

- 30, 60, 100, 150, 200A 600 VAC/250 VDC

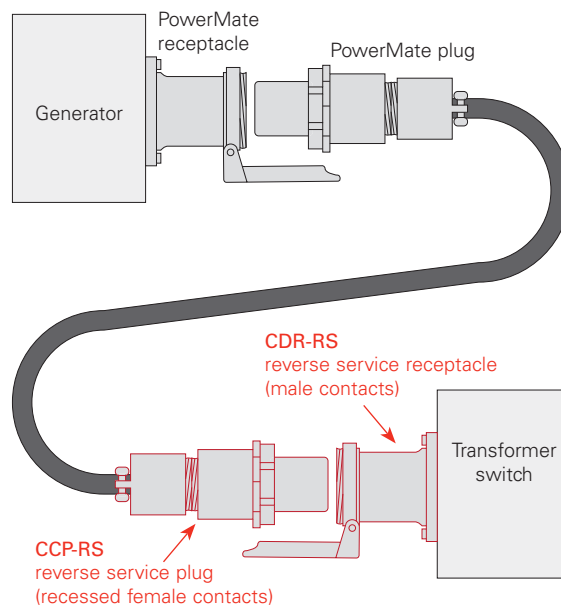
## Certifications and compliances

- Plugs (CCP 30-150A, including CCP3034) hazardous location rated when used with Crouse-Hinds interlocked receptacles (ex. FSQC, EBBR models)
  - Class I, Division 1, Groups B, C, D (excludes 200A)
  - Class II, Division 1, Groups F, G (excludes 200A)
- CE marked (excludes RS option and 200A)
- UL standards
  - UL1682; UL1686; NEMA250; IEC60309-1; IEC60309-2
- CSA standard
  - CSA 22.2 No. 182.1
- Suited for use with Type P cable, flexible cord and cables rated for extra hard usage
- NEMA 4X



## Options

- **Special polarity** – receptacle interior rotated 22.5° to the right and plug changed to match. For use where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages and/or frequencies. Prevents insertion of a plug in a receptacle with different electrical rating.
- **Reverse service** – receptacle assembled with plug interior and plug assembled with receptacle interior. Used in applications where plug is energized to feed normally de-energized receptacle. Interiors are field interchangeable using only a screwdriver.  
*(\* excludes 150 and 200A)*



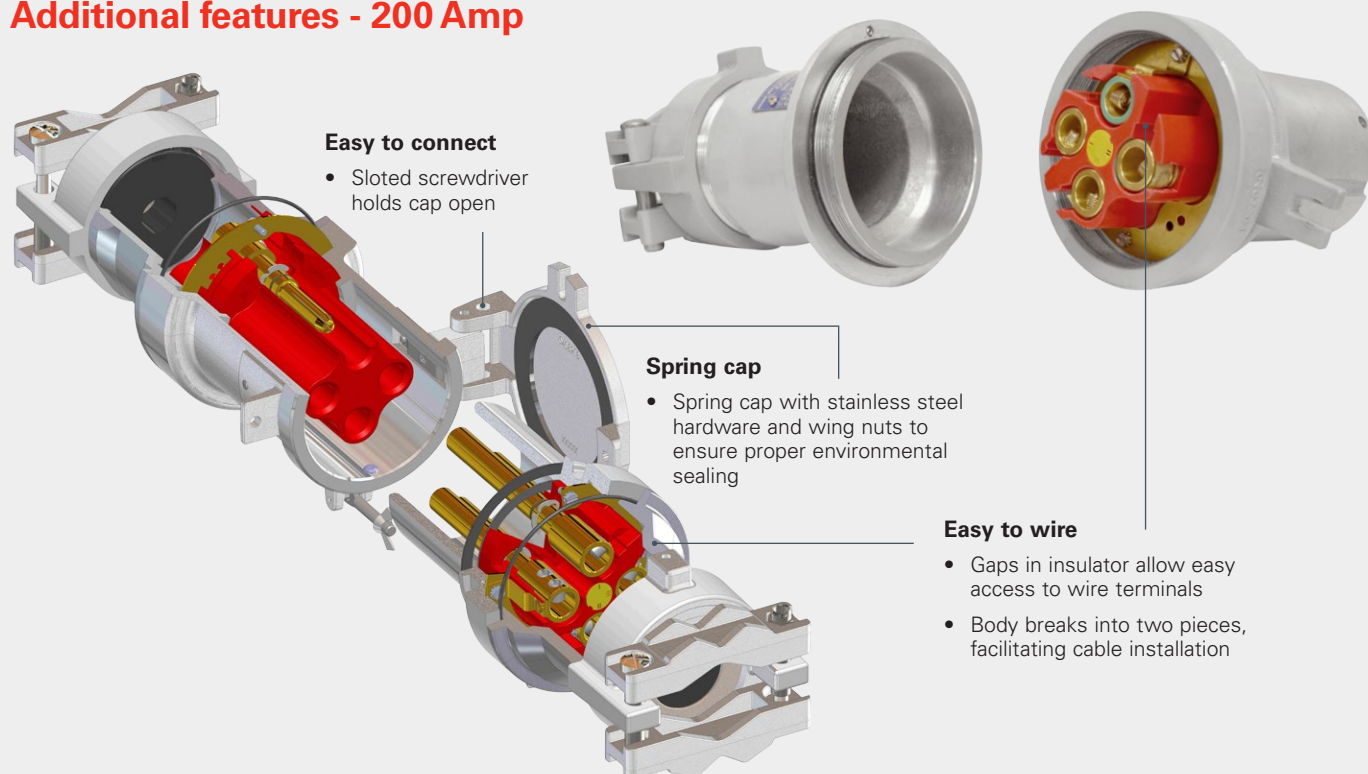
## Standard materials

- Receptacle housing, plug and cord connector bodies - high impact strength copper-free aluminum (less than 0.4% copper)
- Back boxes - cast aluminum
- Insulation - fiberglass reinforced polyester
- Contacts - naval brass

## Standard finishes

- Copper-free aluminum - epoxy powder coat
- Fiberglass reinforced polyester - natural (red)
- Naval brass - natural

## Additional features - 200 Amp



# Ordering information

Part number example and description

## CCP3034BC-RS

Eaton's Crouse-Hinds PowerMate™ plug, 30A, 3 wire, 4 pole, 0.390-1.375" cable range, reverse service

### CCP

| Product type |                              |
|--------------|------------------------------|
| CCP          | Plug                         |
| CDR          | Receptacle                   |
| CRC          | Connector                    |
| CDRE*        | Receptacle with CEE back box |
| CDJA**       | Receptacle with CJA back box |

\* Available with 30A and 60A receptacle

\*\*Available with 60A, 100A, 150A and 200A receptacle

| Amperage |         |
|----------|---------|
| 30       | 30 Amp  |
| 60       | 60 Amp  |
| 10       | 100 Amp |
| 150      | 150 Amp |
| 200      | 200 Amp |

### 30

### 3

| Wire |        |
|------|--------|
| 2*   | 2 wire |
| 3    | 3 wire |
| 4    | 4 wire |

\* Available with 30A, 60A and 100A product

### 4

| Pole |        |
|------|--------|
| 2    | 2 pole |
| 3    | 3 pole |
| 4    | 4 pole |

### BC

| Cable range (plug & connector only)* |                 |
|--------------------------------------|-----------------|
| BC                                   | 0.390 to 1.375" |
| CD                                   | 0.875 to 1.906" |
| DE                                   | 1.250 to 2.190" |
| E                                    | 1.875 to 2.500" |
| F                                    | 2.500 to 3.000" |
| G                                    | 3.000 to 3.500" |

\* Cable range only applies to specific plug part numbers

### RS

| Options |                  |
|---------|------------------|
| -RS     | Reverse service  |
| -P4     | Special polarity |

| Hub size (receptacle with back box only)* |      |
|-------------------------------------------|------|
| 50                                        | ½"   |
| 75                                        | ¾"   |
| 100                                       | 1"   |
| 125                                       | 1-¼" |
| 150                                       | 1-½" |
| 200                                       | 2"   |
| 250                                       | 2-½" |
| 300                                       | 3"   |
| 350                                       | 3-½" |
| 400                                       | 4"   |
| 500                                       | 5"   |

\* Hub size only applies to specific receptacle part numbers

## Horsepower ratings

| Amp rating            | Voltage                          |
|-----------------------|----------------------------------|
| 30, 60, 100, 150, 200 | 600 VAC, 50 to 400Hz<br>250 VDC* |

\* This guide is for reference only. Consult your local electrical codes before installation.

## Maximum horsepower for plug and receptacle combinations by input voltage

Typical horsepower ratings based on NEC Article 430 tables. HP ratings are based on the largest conductor size for each plug and receptacle combination.

\*\* Eaton's Crouse-Hinds recommends circuit breaking use be limited to emergency conditions only and that a horsepower rated switch or Crouse-Hinds interlocked receptacle be used for making and breaking under load.

| Amp rating | Motor horsepower** |      |      |
|------------|--------------------|------|------|
|            | 240V               | 480V | 600V |
| 30         | 15                 | 30   | 40   |
| 60         | 20                 | 40   | 50   |
| 100        | 30                 | 60   | 75   |
| 150        | 40                 | 75   | 100  |
| 200        | 60                 | 125  | 150  |

## Grounding

**Plug**

**Receptacle**

4 conductor cord

Equipment ground connected to plug shell

Grounded through conduit system

**Style 1** units complete the grounding circuit through the metallic plug shell, receptacle housing or connector shell

**Plug**

**Receptacle**

4 conductor cord

Equipment ground connected to extra pole and plug shell

Factory-installed jumper

4th (grounding) wire

Grounded through conduit system and extra pole

**Style 2** units with metal housing have a separate designated ground contact that is bonded to the metallic housing. The metallic housing of the plug, receptacle or connector forms a parallel ground circuit through the receptacle or connector detent spring.

## Wire sizes

The wire size table lists the diameter of the wire recess in PowerMate plug and receptacle contacts so that maximum size of bare conductor can be determined. Range of wire sizes shown in table are intended only as a guide. Depending on type of wire used (building wire, flexible or extra flexible cable) and its construction (number and size of strands), bare copper diameters vary widely.

### Diameter: wire recess in plug & receptacle contacts

| Amperage rating     | Contact type | Diameter of recess | Wire size* extra flex |
|---------------------|--------------|--------------------|-----------------------|
| 30 (2, 3 & 4 pole)  | Pressure     | 0.281"             | #10 to #8             |
| 60 (2, 3 & 4 pole)  | Pressure     | 0.312"             | #8 to #4              |
| 100 (2, 3 & 4 pole) | Pressure     | 0.390"             | #4 to #2              |
| 150 (4 pole)        | Pressure     | 0.390"             | #2 to 1/0             |
| 200 (3 & 4 pole)    | Pressure     | 0.687"             | 2/0 to 250 MCM        |

\* Do not use wire size smaller than minimum size recommended

## 30 Amp: Receptacles, plugs, connectors

| Description & configuration | Receptacle                                                                          | Plug        |              | Cord connector |                        |
|-----------------------------|-------------------------------------------------------------------------------------|-------------|--------------|----------------|------------------------|
|                             |                                                                                     | Cable range | Part number  | Cable range    | Part number            |
| 2 wire<br>2 pole<br>style 1 |    | CDR3022     | 0.390-1.375" | CCP3022BC      | 0.390-1.375" CRC3022BC |
| 2 wire<br>3 pole<br>style 2 |    | CDR3023     | 0.390-1.375" | CCP3023BC      | 0.390-1.375" CRC3023BC |
| 3 wire<br>3 pole<br>style 1 |    | CDR3033     | 0.390-1.375" | CCP3033BC      | 0.390-1.375" CRC3033BC |
| 3 wire<br>4 pole<br>style 2 |  | CDR3034     | 0.390-1.375" | CCP3034BC      | 0.390-1.375" CRC3034BC |
| 4 wire<br>4 pole<br>style 1 |  | CDR3044     | 0.390-1.375" | CCP3044BC      | 0.390-1.375" CRC3044BC |

## Back boxes

| Hub size | CEE   | CERH   | CERC   |
|----------|-------|--------|--------|
| 1/2"     | CEE13 | CERH13 | CERC13 |
| 1-1/4"   | CEE23 | CERH23 | CERC23 |
| 1-1/2"   | CEE33 | CERH33 | CERC33 |

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix **-P4**
- Maximum conductor size (wire well) 0.281"

## 60 Amp: Receptacles, plugs, connectors

| Description & configuration  | Receptacle                                                                          | Plug        |              | Cord connector |                        |
|------------------------------|-------------------------------------------------------------------------------------|-------------|--------------|----------------|------------------------|
|                              |                                                                                     | Cable range | Part number  | Cable range    | Part number            |
| 2 wire<br>2 pole<br>style 1  |  | CDR6022     | 0.440-1.375" | CCP6022BC      | 0.440-1.375" CRC6022BC |
| 2 wire<br>3 pole<br>style 2  |  | CDR6023     | 0.440-1.375" | CCP6023BC      | 0.440-1.375" CRC6023BC |
| 3 wire<br>3 pole<br>style 1  |  | CDR6033     | 0.440-1.375" | CCP6033BC      | 0.440-1.375" CRC6033BC |
| 3 wire,<br>4 pole<br>style 2 |  | CDR6034     | 0.440-1.375" | CCP6034BC      | 0.440-1.375" CRC6034BC |
| 4 wire<br>4 pole<br>style 1  |  | CDR6044     | 0.440-1.375" | CCP6044BC      | 0.440-1.375" CRC6044BC |

## Back boxes

| Hub size | CEE   | CERH   | CJA    | CERC   |
|----------|-------|--------|--------|--------|
| 1/2"     | CEE36 | CERH36 | CJA310 | CERC36 |
| 1-1/4"   | CEE46 | CERH46 | CJA410 | CERC46 |
| 1-1/2"   | CEE56 | CERH56 | CJA510 | CERC56 |
| 2"       | -     | -      | CJA610 | -      |

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix **-P4**
- Maximum conductor size (wire well) 0.312"

## 100 Amp: Receptacles, plugs, connectors

| Description & configuration |  | Plug         |             | Cord connector |             |
|-----------------------------|-----------------------------------------------------------------------------------|--------------|-------------|----------------|-------------|
|                             |                                                                                   | Cable range  | Part number | Cable range    | Part number |
| 2 wire<br>2 pole<br>style 1 |  | 0.875-1.906" | CCP1022CD   | 0.875-1.906"   | CRC1022CD   |
| 2 wire<br>3 pole<br>style 2 |  | 0.875-1.906" | CCP1023CD   | 0.875-1.906"   | CRC1023CD   |
| 3 wire<br>3 pole<br>style 1 |  | 0.875-1.906" | CCP1033CD   | 0.875-1.906"   | CRC1033CD   |
| 3 wire<br>4 pole<br>style 2 |  | 0.875-1.906" | CCP1034CD   | 0.875-1.906"   | CRC1034CD   |
| 4 wire<br>4 pole<br>style 1 |  | 0.875-1.906" | CCP1044CD   | 0.875-1.906"   | CRC1044CD   |

## 150 Amp: Receptacles, plugs, connectors

| Description & configuration |    | Plug         |             | Cord connector |             |
|-----------------------------|-------------------------------------------------------------------------------------|--------------|-------------|----------------|-------------|
|                             |                                                                                     | Cable range  | Part number | Cable range    | Part number |
| 3 wire<br>4 pole<br>style 2 |  | 0.875-1.906" | CCP15034CD  | 0.875-1.906"   | CRC15034CD  |
|                             |                                                                                     | 1.250-2.190" | CCP15034DE  | 1.250-2.190"   | CRC15034DE  |
| 4 wire<br>4 pole<br>style 1 |  | 0.875-1.906" | CCP15044CD  | 0.875-1.906"   | CRC15044CD  |
|                             |                                                                                     | 1.250-2.190" | CCP15044DE  | 1.250-2.190"   | CRC15044DE  |

## 200 Amp: Receptacles, plugs, connectors

| Description & configuration  |  | Plug         |             | Cord connector |             |
|------------------------------|-------------------------------------------------------------------------------------|--------------|-------------|----------------|-------------|
|                              |                                                                                     | Cable range  | Part number | Cable range    | Part number |
| 2 wire,<br>3 pole<br>style 2 |  | 0.875-1.906" | CCP20023CD  | 0.875-1.906"   | CRC20023CD  |
|                              |                                                                                     | 1.875-2.500" | CCP20023E   | 1.875-2.500"   | CRC20023E   |
| 3 wire,<br>3 pole<br>style 1 |  | 0.875-1.906" | CCP20033CD  | 0.875-1.906"   | CRC20033CD  |
|                              |                                                                                     | 1.875-2.500" | CCP20033E   | 1.875-2.500"   | CRC20033E   |
| 3 wire<br>4 pole<br>style 2  |  | 0.875-1.906" | CCP20034CD  | 0.875-1.906"   | CRC20034CD  |
|                              |                                                                                     | 1.875-2.500" | CCP20043E   | 1.875-2.500"   | CRC20034E   |
| 4 wire<br>4 pole<br>style 1  |  | 0.875-1.906" | CCP20044CD  | 0.875-1.906"   | CRC20044CD  |
|                              |                                                                                     | 1.875-2.500" | CCP20044E   | 1.875-2.500"   | CRC20044E   |

## Back boxes: 100 & 150 Amp

| Hub size | CJA    | CJA adapter only |
|----------|--------|------------------|
| 1"       | CJA310 |                  |
| 1-¼"     | CJA410 |                  |
| 1-½"     | CJA510 | CJA100           |
| 2"       | CJA610 |                  |

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix **-P4**
- Maximum conductor size (wire well) 0.390"

## Back boxes

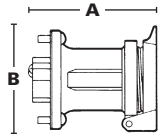
| Hub size | CJA    | CJAC (through-feed) | CJA adapter only |
|----------|--------|---------------------|------------------|
| 1-½"     | CJA520 | —                   |                  |
| 2"       | CJA620 | —                   | CJA200           |
| 2-½"     | CJA720 | CJAC720             |                  |

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix **-P4**
- Maximum conductor size (wire well) 0.281"



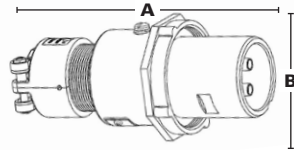
## Dimensions

### Receptacle



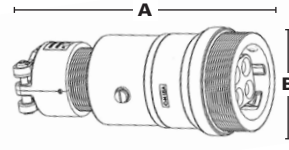
| Receptacle   | A      | B      |
|--------------|--------|--------|
| 30A          | 2.8750 | 3.3750 |
| 60A, 3 pole  | 4.2500 | 4.5000 |
| 60A, 4 pole  | 4.2500 | 4.5000 |
| 100A, 3 pole | 5.2500 | 4.2500 |
| 100A, 4 pole | 5.2500 | 4.2500 |
| 150A CD      | 5.2500 | 4.2500 |
| 150A DE      | 5.2500 | 4.2500 |
| 200A         | 7.8750 | 7.1875 |

### Plug



| Plug         | A       | B      |
|--------------|---------|--------|
| 30A          | 6.5000  | 2.3125 |
| 60A, 3 pole  | 8.1700  | 3.6250 |
| 60A, 4 pole  | 8.1700  | 3.7500 |
| 100A, 3 pole | 10.8000 | 3.7500 |
| 100A, 4 pole | 10.8000 | 4.1250 |
| 150A CD      | 10.8000 | 4.1250 |
| 150A DE      | 10.8000 | 4.1250 |
| 200A         | 13.1250 | 7.5000 |

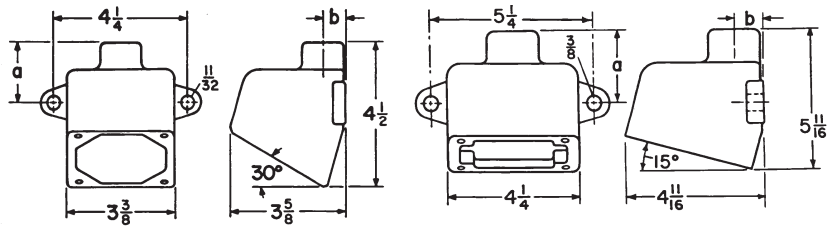
### Connector



| Connector    | A       | B      |
|--------------|---------|--------|
| 30A          | 6.6000  | 2.5625 |
| 60A, 3 pole  | 8.3000  | 2.3125 |
| 60A, 4 pole  | 8.3000  | 2.3125 |
| 100A, 3 pole | 11.5000 | 3.1875 |
| 100A, 4 pole | 11.5000 | 3.4375 |
| 150A CD      | 11.5000 | 3.4375 |
| 150A DE      | 11.5000 | 3.4375 |
| 200A         | 14.0000 | 8.2000 |

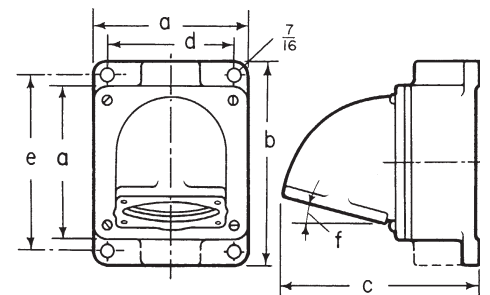
### Back boxes: 30 & 60A only

| Part number | Rating | Hub Size | A      | B      |
|-------------|--------|----------|--------|--------|
| CEE13       | 30A    | ½"       | 1.8440 | 0.6875 |
| CEE23       | 30A    | ¾"       | 1.8440 | 0.8125 |
| CEE33       | 30A    | 1"       | 1.9690 | 0.9375 |
| CEE36       | 60A    | 1"       | 2.5625 | 0.9375 |
| CEE46       | 60A    | 1-¼"     | 2.6250 | 1.1875 |
| CEE56       | 60A    | 1-½"     | 2.6875 | 1.3125 |



### Back boxes with 60, 100, 150 & 200A angle adapters

| Part number | Rating        | Hub Size | A      | B       | C      | D      | E      | F   |
|-------------|---------------|----------|--------|---------|--------|--------|--------|-----|
| CJA310      | 60, 100, 150A | 1"       | 5.8750 | 8.0000  | 7.4375 | 4.8750 | 7.0000 | 15° |
| CJA410      | 60, 100, 150A | 1-¼"     | 5.8750 | 8.0000  | 7.4375 | 4.8750 | 7.0000 | 15° |
| CJA510      | 60, 100, 150A | 1-½"     | 5.8750 | 8.0000  | 7.4375 | 4.8750 | 7.0000 | 15° |
| CJA610      | 60, 100, 150A | 2"       | 5.8750 | 8.0000  | 8.0000 | 4.8750 | 7.0000 | 15° |
| CJA520      | 200A          | 1-½"     | 8.0000 | 10.7500 | 9.8750 | 6.7500 | 9.5000 | 45° |
| CJA620      | 200A          | 2"       | 8.0000 | 10.7500 | 9.8750 | 6.7500 | 9.5000 | 45° |
| CJA720      | 200A          | 2-½"     | 8.0000 | 10.7500 | 9.8750 | 6.7500 | 9.5000 | 45° |
| CJAC720     | 200A          | 2-½"     | 8.0000 | 10.7500 | 9.8750 | 6.7500 | 9.5000 | 45° |

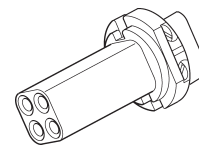


- Back boxes are standard with Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- Through feed back boxes are furnished with one close-up plug in bottom recessed hub
- CJA back boxes are recommended when additional wiring space is required
- The angle adapter on CJA back boxes can be installed at 90° rotations, making it possible to enter hub from several directions

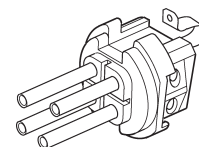
## Replacement parts

### Standard replacement parts

| Complete insulator assembly |         | 30A      | 60A      | 100A     | 150A      | 200A      |
|-----------------------------|---------|----------|----------|----------|-----------|-----------|
| 2W2P                        | CDR-CRC | CRI-3022 | CRI-6022 | CRI-1022 | —         | —         |
|                             | CCP     | CPI-3022 | CPI-6022 | CPI-1022 | —         | —         |
| 2W3P                        | CDR-CRC | CRI-3023 | CRI-6023 | CRI-1023 | —         | CRI-20023 |
|                             | CCP     | CPI-3023 | CPI-6023 | CPI-1023 | —         | CPI-20023 |
| 3W3P                        | CDR-CRC | CRI-3033 | CRI-6033 | CRI-1033 | —         | CRI-20033 |
|                             | CCP     | CPI-3033 | CPI-6033 | CPI-1033 | —         | CPI-20033 |
| 3W4P                        | CDR-CRC | CRI-3034 | CRI-6034 | CRI-1034 | CRI-15034 | CRI-20034 |
|                             | CCP     | CPI-3034 | CPI-6034 | CPI-1034 | CPI-15034 | CPI-20034 |
| 4W4P                        | CDR-CRC | CRI-3044 | CRI-6044 | CRI-1044 | CRI-15044 | CRI-20044 |
|                             | CCP     | CPI-3044 | CPI-6044 | CPI-1044 | CPI-15044 | CPI-20044 |



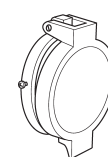
CRI receptacle & connector interior



CPI plug interior

### Miscellaneous replacement parts

| Amperage | Configuration | CDR spring cover | CDR threaded cover | CCP fastening ring | Bushing kits     |
|----------|---------------|------------------|--------------------|--------------------|------------------|
| 30       | 2, 3 & 4 pole | PTSC30           | PTTC30             | CLMPR30            | PTGB30           |
| 60       | 2, 3 & 4 pole | PTSC60A          | PTTC60A            | CLMPR23P60         | PTGB60           |
|          |               | PTSC60B          | PTTC60B            | CLMPR4P60          |                  |
| 100      | 2, 3 & 4 pole | PTSC100A         | PTTC100A           | CLMPR23P100        | PTGBCD           |
|          |               | PTSC100B         | PTTC100B           | CLMPR4P100         |                  |
| 150      | 4 pole        | PTSC150B         | PTTC150B           | CLMPR4P150         | PTGBCD (CD size) |
|          |               |                  |                    |                    | PTGBDE (DE size) |



Spring cover



Threaded cover

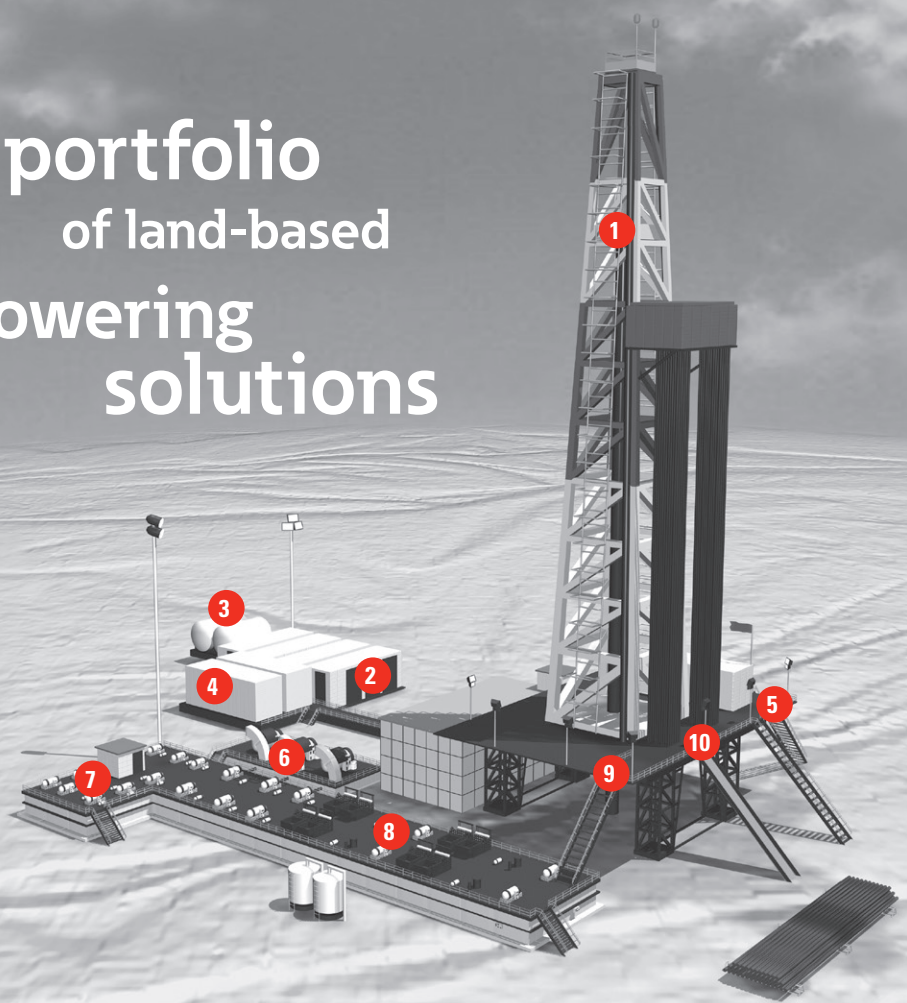


Bushing kit

| Amperage | Configuration | CDR spring cover | Brass retaining ring | Plug contact | Plug ground contact | Receptacle contact | Receptacle ground contact | Bushing kit         |
|----------|---------------|------------------|----------------------|--------------|---------------------|--------------------|---------------------------|---------------------|
| 200A     | 3 pole        | PTLC200          | PTBR2003             | PTPC200      | PTPC200G            | PTRC200            | PTRC200G                  | PTGB200CD (CD size) |
|          | 4 pole        |                  | PTBR2004             |              |                     |                    |                           | PTGB200E (E size)   |

- 1 Derrick/Mast
- 2 VFD/Generators
- 3 Fuel Tank
- 4 Motor Control/VFD/SCR House
- 5 Doghouse/Operator's House
- 6 Power/Pump Station
- 7 Shale Shaker
- 8 Mud Tanks/Pumps
- 9 Drawworks & Top Drive
- 10 Drilling Floor

# Full portfolio of land-based powering solutions



## Crouse-Hinds drilling solutions

### Single pole power



#### Roughneck™ Single Pole Series



Secure, single pole power, rated to 1135A for use in hazardous and normal locations. Ideal for delivering power to the top drive.

**Rig Location**  
1, 2, 4, 5, 6, 9, 10

#### Roughneck™ Quick Connect



Quick connect, high amperage, single conductor connectors built to take heavy abuse while providing a simple, secure and safe connection.

**Rig Location**  
2, 4, 5, 6, 9, 10

#### Cam-Lok™ Single Pole Series



Quickly connect and disconnect power systems safely. Used for motors, generators, indoor and outdoor lighting distribution panels and numerous other power applications.

**Rig Location**  
1, 2, 4, 5, 6, 9, 10

### Low to medium amp power



#### PowerMate™ Series



Supplies power to portable devices such as motor generator sets, compressors, heating and cooling, welders and lighting from 30 to 200A.

**Rig Location**  
2, 4, 5

#### PowerGard™ Series



Supplies power to lighting systems, lighting panels and portable hand tools on land-based rigs.

**Rig Location**  
1, 2, 3, 4, 5, 6, 7, 8, 9, 10

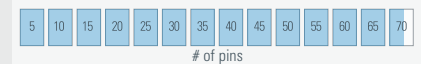
#### IEC 309 GHG 51 Series



Supplies power to portable devices with requirements of 16 to 125A and features an integrated AC3 rated disconnect switch. Reinforced polyester construction offers reliability from -20° to +55°C.

**Rig Location**  
7, 8, 9

### Multi-pin control



#### Roughneck™ Multi-pin Series



Heavy duty control and instrumentation multi-pin connectors for hazardous and harsh industrial use.

**Rig Location**  
1, 2, 4, 5, 6, 9, 10



**Connectors for harsh/heavy industrial areas**



**Connectors for hazardous areas**



**For more information:**

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

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