PowerGard®
universal receptacles
& back boxes

Now cULus listed for use in Canada

EATON
Powering Business Worldwide
Whether you are powering lighting fixtures or portable equipment, you need a receptacle solution that stands up to the harsh environmental and physical demands of land-based drilling applications.

PowerGard™ receptacles and back boxes meet and exceed your power needs with an easy-install, universal footprint suitable for rig maintenance, retrofits and new builds.

Receptacles engineered for real world applications and challenging environments

**Designed for work**
Introducing PowerGard®

Universal receptacles & back boxes for land-based drilling

Primary application
PowerGard® receptacles are used to supply power to lighting systems and lighting panels on land-based drilling rigs.

Industry-best ease of installation
- Classified for use with Appleton® U-Line Series
- Easy-to-wire saddle clamp terminals reduce installation time and effort
- Molded-in-place phase/ground markings reduce installation errors

Best-in-class reliability
- Can handle temperature extremes ranging from -50°C to +55°C where comparable products are not certified to operate
- Epoxy powder coat finish, integral gasket design and stainless steel hardware ensure suitability for NEMA 3RX applications
- Vibration tested at 1G to ensure continuity in high vibration areas
- Rugged Krydon® faceplate stands up to abuse in the field without cracking

Increased ease of operation
- Positive on-off position identifies when unit has been engaged and disengaged
- Clearly marked operating instructions to eliminate risk of improper operation

EXCLUSIVE FEATURES
- Extended temperature range: -50°C to +55°C
- Certified for use with Hard Service Cords SOOW, SEOOW and STOOW
- Saddle clamp wire terminals
- NEMA 3RX rating
- Krydon® fiberglass-reinforced polyester faceplate
Specifications & features

Electrical ratings
• 15 Amp, 125 VAC
• 20 Amp, 125 VAC
• 20 Amp, 250 VAC

Environmental ratings
• NEMA 3, 3R, 3RX

Ambient temperature ratings
• ULus, Group C, D
  -50°C to +55°C
• cUL, Group C, D
  -50°C to +40°C
• ULus, Group B, C, D
  -25°C to +55°C
• cUL, Group B, C, D
  -25°C to +40°C

Certifications and compliances
• NEC & CEC
  - Class I, Groups B*, C, D
  - Class II, Groups F, G
  - Class III
  * Group B certification not applicable to double gang assemblies. Reference page 6 for full details.
• UL Standards
  - UL 1203 Explosionproof and Dust-Ignition-proof Electrical Equipment for Use in Hazardous (Classified) Locations
• CSA Standard
  - CSA 22.2 No. 30 Explosionproof Enclosures for Use in Class I Hazardous Locations
  - CSA 22.2 No. 159 Attachment plugs, Receptacles, and similar Wiring Devices for Use in Hazardous Locations:
    Class I, Groups A, B, C, D;
    Class II Group G, in Coal or Coke Dust, and in Gaseous Mines.
  • cULus File #10289

Standard materials
• Housing, covers and back boxes: Copper-free aluminum with Corro-free™ epoxy powder coat
• Insulator and faceplate: Krydon® fiberglass-reinforced polyester material
• External hardware: Stainless steel

Dimensions

UNIVERSAL FOOTPRINT
• Provides field flexibility for retrofits or installation in tight places
• UL classified for use with Appleton® U-Line Series

SUPERIOR HARDWARE
• Stainless steel external hardware eliminates corrosion on critical components and extends product life
• Hex-head screws allow for easy achievement of specified torque values

ENHANCED SAFETY
• Rejects standard NEMA/ EEMAC plug configurations that could potentially cause an arc in hazardous areas
• Plug cannot be disengaged under load

ROBUST CONSTRUCTION
• Can handle temperature extremes ranging from -50°C to +55°C where comparable products are not certified to operate
• Epoxy powder coat finish, integral gasket and stainless steel hardware ensure suitability for NEMA 3RX applications
• Vibration tested at 1G to ensure continuity in high vibration areas

<table>
<thead>
<tr>
<th>Box Style</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>3.24&quot;</td>
<td>2.70&quot;</td>
<td>5.69&quot;</td>
<td>6.48&quot;</td>
</tr>
<tr>
<td>Double</td>
<td>6.38&quot;</td>
<td>5.50&quot;</td>
<td>5.69&quot;</td>
<td>6.53&quot;</td>
</tr>
<tr>
<td>Gang</td>
<td>[82.3]</td>
<td>[68.6]</td>
<td>[143.5]</td>
<td>[164.7]</td>
</tr>
<tr>
<td>Single</td>
<td>3.24&quot;</td>
<td>2.70&quot;</td>
<td>5.69&quot;</td>
<td>6.48&quot;</td>
</tr>
<tr>
<td>Double</td>
<td>6.38&quot;</td>
<td>5.50&quot;</td>
<td>5.69&quot;</td>
<td>6.53&quot;</td>
</tr>
<tr>
<td>Gang</td>
<td>[162.2]</td>
<td>[139.7]</td>
<td>[144.4]</td>
<td>[166.5]</td>
</tr>
</tbody>
</table>
**SAFESPRING FACEPLATE**

- Spring loaded faceplate design prevents receptacle from being energized without use of UL certified hazardous location plug
- Rugged Krydon® faceplate won’t crack after continued use in the field

**EASY-INSTALL TERMINALS**

- Molded-in-place phase and ground markings reduce installation errors
- Easy-to-wire saddle clamp terminals reduce installation time and effort
- Receptacle suitable for though feed/loop wiring; no additional wire nuts or terminators needed

<table>
<thead>
<tr>
<th>Wire Sizes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>16-10 AWG</td>
</tr>
<tr>
<td>Stranded</td>
<td>16-12 AWG</td>
</tr>
</tbody>
</table>

**BEST-IN-CLASS COVER**

- Combo head, stainless steel screws make replacement easy
- Clearly marked operating instructions ensure proper operation and safety when plugging and unplugging
- Threaded cover option available for exceptional watertight integrity
## Ordering information

### Receptacle & Mounting Box

<table>
<thead>
<tr>
<th>Type</th>
<th>Config.</th>
<th>Wire Pole</th>
<th>Hub Size</th>
<th>20 AMP 125 VAC</th>
<th>20 AMP 250 VAC</th>
<th>15 AMP 125 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Gang Assembly *</td>
<td>Dead-end</td>
<td>2W, 3P</td>
<td>⅓</td>
<td>CFS150-2023-M15</td>
<td>CFS150-20232-M15</td>
<td>CFS150-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>¼</td>
<td>CFS175-2023-M15</td>
<td>CFS175-20232-M15</td>
<td>CFS175-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>CFS110-2023-M15</td>
<td>CFS110-20232-M15</td>
<td>CFS110-1523-M15</td>
</tr>
<tr>
<td></td>
<td>Thru-feed</td>
<td>2W, 3P</td>
<td>⅓</td>
<td>CFSC150-2023-M15</td>
<td>CFSC150-20232-M15</td>
<td>CFSC150-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>¼</td>
<td>CFSC175-2023-M15</td>
<td>CFSC175-20232-M15</td>
<td>CFSC175-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>CFSC110-2023-M15</td>
<td>CFSC110-20232-M15</td>
<td>CFSC110-1523-M15</td>
</tr>
<tr>
<td>Double Gang Assembly **</td>
<td>Dead-end</td>
<td>2W, 3P</td>
<td>⅓</td>
<td>CFSC250-2023-M15</td>
<td>CFSC250-20232-M15</td>
<td>CFSC250-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>¼</td>
<td>CFSC275-2023-M15</td>
<td>CFSC275-20232-M15</td>
<td>CFSC275-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>CFSC210-2023-M15</td>
<td>CFSC210-20232-M15</td>
<td>CFSC210-1523-M15</td>
</tr>
<tr>
<td></td>
<td>Thru-feed</td>
<td>2W, 3P</td>
<td>⅓</td>
<td>CFSC250-2023-M15</td>
<td>CFSC250-20232-M15</td>
<td>CFSC250-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>¼</td>
<td>CFSC275-2023-M15</td>
<td>CFSC275-20232-M15</td>
<td>CFSC275-1523-M15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>CFSC210-2023-M15</td>
<td>CFSC210-20232-M15</td>
<td>CFSC210-1523-M15</td>
</tr>
</tbody>
</table>

* Single gang assembly listed for Class I, Division 1, Groups B, C, D for -25°C ambient and Class I, Division 1, Groups C, D for -50°C ambient.
** Double gang assembly Listed for Class I, Division 1, Groups C and D, Class I, Division 2, Groups B, C, and D. Manufacturer self certification of Class I, Division 1, Group B available.

### Replacement Receptacle

<table>
<thead>
<tr>
<th>Type</th>
<th>Wire Pole</th>
<th>20 AMP 125 VAC</th>
<th>20 AMP 250 VAC</th>
<th>15 AMP 125 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement Receptacle *</td>
<td>2W, 3P</td>
<td>*CFSR-2023-M15</td>
<td>CFSR-20232-M15</td>
<td>*CFSR-1523-M15</td>
</tr>
</tbody>
</table>

* In order to be certified for Class I, Division 1, Group B applications, receptacles must be used on a single gang back box (part # CFD1XX or CFDC1XX)

### ENP Ark®Gard Plug

<table>
<thead>
<tr>
<th>Type</th>
<th>Wire Pole</th>
<th>20 AMP 125 VAC</th>
<th>20 AMP 250 VAC</th>
<th>15 AMP 125 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENP Standard Plug</td>
<td>2W, 3P</td>
<td>ENPS201</td>
<td>ENPS202</td>
<td>ENPS151</td>
</tr>
</tbody>
</table>

### Back Box

<table>
<thead>
<tr>
<th>Type</th>
<th>Config.</th>
<th>Hub Size</th>
<th>Back Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Gang *</td>
<td>Dead-end</td>
<td>⅓</td>
<td>CFD150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>¼</td>
<td>CFD175</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>CFD110</td>
</tr>
<tr>
<td></td>
<td>Thru-feed</td>
<td>⅓</td>
<td>CFDC150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>¼</td>
<td>CFDC175</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>CFDC110</td>
</tr>
<tr>
<td>Double Gang</td>
<td>Dead-end</td>
<td>⅓</td>
<td>CFD250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>¼</td>
<td>CFD275</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>CFD210</td>
</tr>
<tr>
<td></td>
<td>Thru-feed</td>
<td>⅓</td>
<td>CFDC250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>¼</td>
<td>CFDC275</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>CFDC210</td>
</tr>
</tbody>
</table>

### Replacement Parts

<table>
<thead>
<tr>
<th>Type</th>
<th>Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Cover Replacement</td>
<td>PGSCA</td>
</tr>
<tr>
<td>Threaded Cover Replacement</td>
<td>PGTCA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back Box Hex Bolt Replacement</td>
<td>PG SCREW PACK</td>
</tr>
</tbody>
</table>

* In order to be certified for Class I, Division 1, Group B applications, receptacles must be used on a single gang back box (part # CFD1XX or CFDC1XX)
** Both 15A/125 VAC and 20A/125 VAC PowerGard receptacles can accept either a 15A/125 VAC or 20A/125 VAC ENP plug.

---

EATON’S CROUSE-HINDS® PowerGard® universal receptacles & back boxes
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**

- **PowerGard® Series**
  - Supplies power to lighting systems, lighting panels and portable hand tools on land-based rigs.
  - Rig Location: 1, 2, 4, 5, 6, 7, 8, 9, 10

- **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

**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**

---

Eaton's Crouse-Hinds
PowerGard® universal receptacles & back boxes
For more information:
If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

U.S. (Global Headquarters):
Eaton’s Crouse-Hinds Business
1201 Wolf Street
Syracuse, NY 13208
TEL: (866) 764-5454
FAX: (315) 477-5179
FAX Orders Only: (866) 653-0640
crousecustomerctr@eaton.com

Mexico/Latin America/Caribbean:
TEL: 52-555-804-4000
FAX: 52-555-804-4020
ventascentromex@eaton.com

Canada:
Toll Free: 800-265-0502
FAX: (800) 263-9504
FAX Orders only: (866) 653-0645