





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 wih Hard Service Cords SOOW, SEOOW and STOOW
- Saddle clamp wire terminals
- NEMA 3RX rating
- Krydon® fiberglassreinforced 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

- NFC & CFC
 - 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

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

under load

Rejects standard NEMA/

EEMAC plug configurations

that could potentially cause

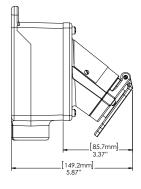
an arc in hazardous areas

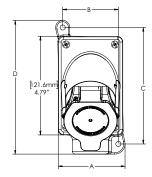
Plug cannot be disengaged



- 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

Dimensions





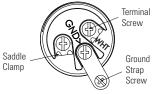
Box Style	Α	В	С	D	
Single	3.24"	2.70"	5.65"	6.48"	
Gang	[82.3]	[68.6]	[143.5]	[164.7]	
Double	6.38"	5.50"	5.69"	6.55'	
Gang	[162.2]	[139.7]	[144.4]	[166.5]	



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

Wire Sizes	
Solid	16-10 AWG
Stranded	16-12 AWG



Screw Ground

Strap

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









Туре	Config.	Wire Pole	Hub Size	20 AMP 125 VAC	20 AMP 250 VAC	15 AMP 125 VAC
			1/2	CFS150-2023-M15	CFS150-20232-M15	CFS150-1523-M15
	Dead-end	2W, 3P	3/4	CFS175-2023-M15	CFS175-20232-M15	CFS175-1523-M15
Single Gang			1	CFS110-2023-M15	CFS110-20232-M15	CFS110-1523-M15
Assembly *			1/2	CFSC150-2023-M15	CFSC150-20232-M15	CFSC150-1523-M15
Thru-feed	Thru-feed	2W, 3P	3/4	CFSC175-2023-M15	CFSC175-20232-M15	CFSC175-1523-M15
			1	CFSC110-2023-M15	CFSC110-20232-M15	CFSC110-1523-M15
			1/2	CFS250-2023-M15	CFS250-20232-M15	CFS250-1523-M15
	Dead-end	2W, 3P	3/4	CFS275-2023-M15	CFS275-20232-M15	CFS275-1523-M15
Double Gang			1	CFS210-2023-M15	CFS210-20232-M15	CFS210-1523-M15
Assembly **			1/2	CFSC250-2023-M15	CFSC250-20232-M15	CFSC250-1523-M15
	Thru-feed	2W, 3P	3/4	CFSC275-2023-M15	CFSC275-20232-M15	CFSC275-1523-M15
			1	CFSC210-2023-M15	CFSC210-20232-M15	CFSC210-1523-M15

^{*} 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.

Replacement Receptacle



Туре	Wire	20 AMP	20 AMP	15 AMP
	Pole	125 VAC **	250 VAC **	125 VAC **
Replacement Receptacle *	2W, 3P	*CESB-2023-M15	CESB-20232-M15	*CESB-1523-M15

^{*} 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



Туре	Wire	20 AMP	20 AMP	15 AMP
	Pole	125 VAC	250 VAC	125 VAC
ENP Standard Plug	2W, 3P	ENP5201	ENP6202	ENP5151

Back Box





Туре	Config.	Size	васк Вох
		1/2	CFD150
	Dead-end	3/4	CFD175
Single		1	CFD110
Gang *		1/2	CFDC150
	Thru-feed	3/4	CFDC175
		1	CFDC110



Туре	Config.	Hub Size	Back Box
Double Gang		1/2	CFD250
	Dead-end	3/4	CFD275
		1	CFD210
		1/2	CFDC250
	Thru-feed	3/4	CFDC275
		1	CFDC210

Replacement Parts



Туре	
Spring Cover Replacement	PGSCA

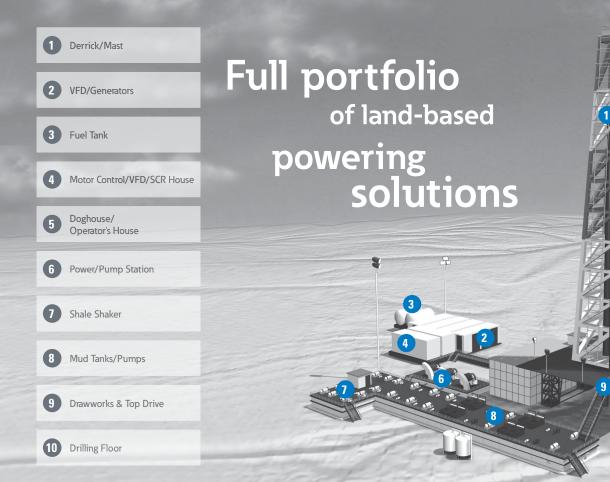


Туре	Cover
Threaded Cover	PGTCA
Replacement	

Туре	Config.
Back Box	PG SCREW PACK
Hex Bolt Replacement	PG SCREW PACK SLOT

^{**} 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.

^{**} Both 15A/125 VAC and 20A/125 VAC PowerGard receptacles can accept either a 15A/125 VAC or 20A/125 VAC ENP plug.



Crouse-Hinds drilling solutions





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, 3, 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

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





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

Faton

1000 Eaton Boulevard Cleveland, OH 44122 United States

Crouse-Hinds Division

1201 Wolf Street Syracuse, NY 13208

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