PowerMate™ Series

Drilling rig pin and sleeve power connections

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.

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.

Lockout plug

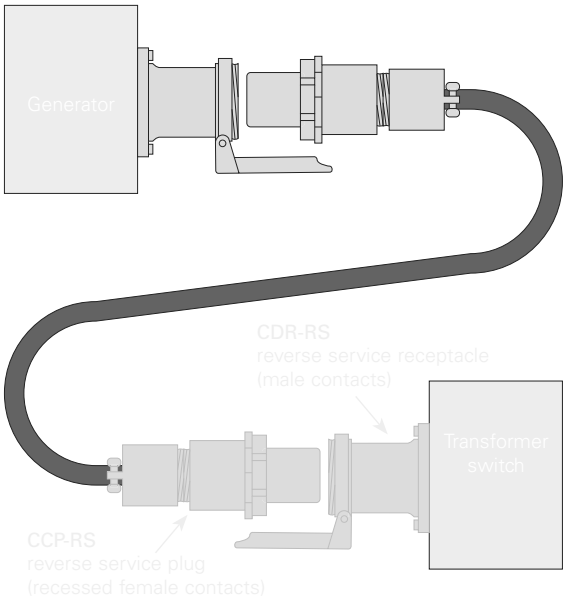
- Guarantees isolated power supply with OSHA compliant lockout/tagout.
- Ensures plug cannot be inserted into receptacle when maintenance is being performed downstream of power supply.

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.

CE

(excludes 150 and 200A)*



Easy to connect

- Sloted screwdriver holds cap open

Spring cap

- Spring cap with stainless steel hardware and wing nuts to ensure proper environmental sealing

Easy to wire

- Gaps in insulator allow easy access to wire terminals
- Body breaks into two pieces, facilitating cable installation

CCP3034BC–RS

CCP	Plug	2*	2 wire	2	2 pole	-RS	Reverse service
CRC	Connector	4	4 wire	4	4 pole		
CDJA**	Receptacle with CJA back box						

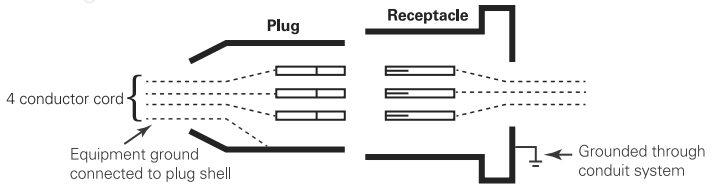
30	30 Amp	BC	0.390 to 1.375"	50	½"
10	100 Amp	DE	1.250 to 2.190"	100	1"
200	200 Amp	F	2.500 to 3.000"	150	1-½"
				250	2-½"
				350	3-½"
				500	5"

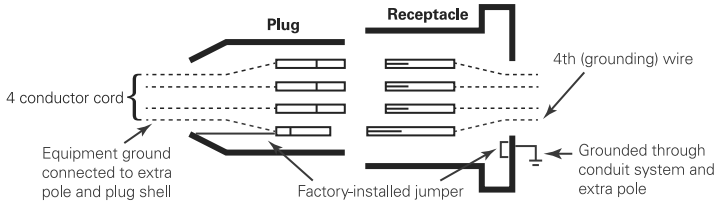
Horsepower ratings

30, 60, 100, 150, 200	600 VAC, 50 to 400Hz 250 VDC*

30	15	30	40
100	30	60	75
200	60	125	150

Grounding





Wire sizes

30 (2, 3 & 4 pole)	Pressure	0.281″	#10 to #8
100 (2, 3 & 4 pole)	Pressure	0.390″	#4 to #2
200 (3 & 4 pole)	Pressure	0.687″	2/0 to 250 MCM

30 Amp: Receptacles, plugs, connectors

2 wire 2 pole style 1		CDR3022	0.390-1.375″	CCP3022BC	0.390-1.375″	CRC3022BC
3 wire 3 pole style 1		CDR3033	0.390-1.375″	CCP3033BC	0.390-1.375″	CRC3033BC
4 wire 4 pole style 1		CDR3044	0.390-1.375″	CCP3044BC	0.390-1.375″	CRC3044BC

Back boxes

½"	CEE13	CERH13	CERC13
1-½"	CEE33	CERH33	CERC33

60 Amp: Receptacles, plugs, connectors

2 wire 2 pole style 1		CDR6022	0.440-1.375″	CCP6022BC	0.440-1.375″	CRC6022BC
3 wire 3 pole style 1		CDR6033	0.440-1.375″	CCP6033BC	0.440-1.375″	CRC6033BC
4 wire 4 pole style 1		CDR6044	0.440-1.375″	CCP6044BC	0.440-1.375″	CRC6044BC

Back boxes

½"	CEE36	CERH36	CJA310	CERC36
1-½"	CEE56	CERH56	CJA510	CERC56

100 Amp: Receptacles, plugs, connectors

2 wire 2 pole style 1		CDR1022	0.875-1.906″	CCP1022CD	0.875-1.906″	CRC1022CD
3 wire 3 pole style 1		CDR1033	0.875-1.906″	CCP1033CD	0.875-1.906″	CRC1033CD
4 wire 4 pole style 1		CDR1044	0.875-1.906″	CCP1044CD	0.875-1.906″	CRC1044CD

Back boxes:100 & 150 Amp

1"	CJA310	
1-½"	CJA510	

150 Amp: Receptacles, plugs, connectors

3 wire 4 pole style 2		CDR15034	0.875-1.906"	CCP15034CD	0.875-1.906"	CRC15034CD
			1.250-2.190"	CCP15034DE	1.250-2.190"	CRC15034DE

200 Amp: Receptacles, plugs, connectors

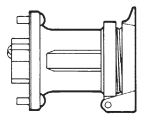
2 wire, 3 pole style 2		CDR20023	0.875-1.906"	CCP20023CD	0.875-1.906"	CRC20023CD
			1.875-2.500"	CCP20023E	1.875-2.500"	CRC20023E
3 wire 4 pole style 2		CDR20034	0.875-1.906"	CCP20034CD	0.875-1.906"	CRC20034CD
			1.875-2.500"	CCP20043E	1.875-2.500"	CRC20034E

Back boxes

1-½"	CJA520	–
2-½"	CJA720	CJAC720

Dimensions

Receptacle



30A	2.8750	3.3750
60A, 4 pole	4.2500	4.5000
100A, 4 pole	5.2500	4.2500
150A DE	5.2500	4.2500

Plug

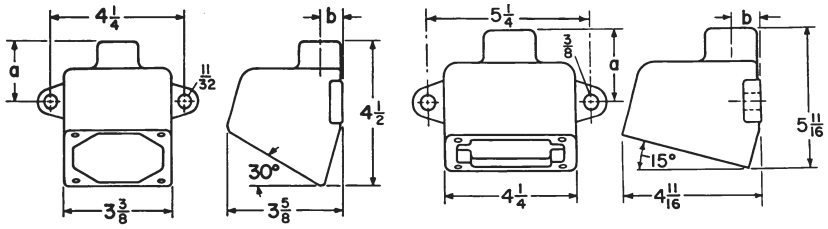
30A	6.5000	2.3125
60A, 4 pole	8.1700	3.7500
100A, 4 pole	10.8000	4.1250
150A DE	10.8000	4.1250

Connector

30A	6.6000	2.5625
60A, 4 pole	8.3000	2.3125
100A, 4 pole	11.5000	3.4375
150A DE	11.5000	3.4375

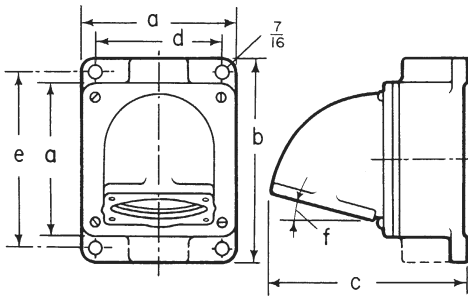
Back boxes: 30 & 60A only

CEE13	30A	½"	1.8440	0.6875
CEE33	30A	1"	1.9690	0.9375
CEE46	60A	1-¼"	2.6250	1.1875



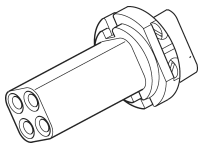
Back boxes with 60, 100, 150 & 200A angle adapters

CJA310	60, 100, 150A	1"	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°
CJA520	200A	1-½"	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°

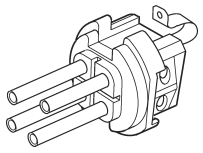


Standard replacement parts

2W2P	CDR-CRC	CRI-3022	CRI-6022	CRI-1022	–	–
	CCP	CPI-3022	CPI-6022	CPI-1022	–	–



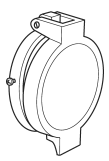
3W3P	CDR-CRC	CRI-3033	CRI-6033	CRI-1033	–	CRI-20033
	CCP	CPI-3033	CPI-6033	CPI-1033	–	CPI-20033



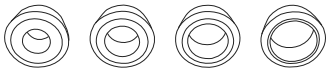
4W4P	CDR-CRC	CRI-3044	CRI-6044	CRI-1044	CRI-15044	CRI-20044
	CCP	CPI-3044	CPI-6044	CPI-1044	CPI-15044	CPI-20044

Miscellaneous replacement parts

30	2, 3 & 4 pole	PTSC30	PTTC30	CLMPR30	PTGB30



100	2, 3 & 4 pole	PTSC100A	PTTC100A	CLMPR23P100	PTGBCD
		PTSC100B	PTTC100B	CLMPR4P100	



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

Crouse-Hinds drilling solutions

Single pole power

5 10 15 20 25 30 35 40 45 50 55 60 65 70
# of pins

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.

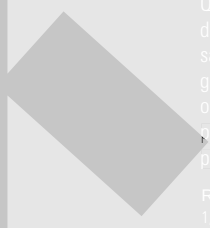
Rig Location
1, 2, 4, 5, 6, 9, 10

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

5 10 15 20 25 30 35 40 45 50 55 60 65 70
# of pins

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

5 10 15 20 25 30 35 40 45 50 55 60 65 70
# of pins

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.