

# Roughneck® Connectors



Cooper Interconnect's single-conductor Roughneck® High-Amperage Connectors are rugged and specifically designed for oil drilling applications. Weatherproof and providing a high level of indestructibility, the Roughneck Connector offers the ultimate performance solution for safety and reliability challenges, that are not offered anywhere else.

For years, drilling contractors have been looking for a safe, easily connectable, high amperage connector that would withstand the rigors of standard drilling operations. Cooper Interconnect Cam-Lok Roughneck Plugs and Receptacles are designed to equal the cable performance at 1,135 amps continuous with intermittent surges up to 1,300 amps. They're built to take heavy abuse-resistant to wind, rain, mud, oil and sea water, yet they can be quickly connected and disconnected without any tools.

Specially made to handle a variety of drilling applications, the Roughneck can be quickly and safely connected to the switchgear or the AC or DC sides of the SCR package and carry power to mud pumps and all other traction motors.

Simple to Connect and Disconnect - No tools of any kind are required to connect or disconnect the connector to the receptacle. A latching device locks the halves together, eliminating the possibility of accidental disengagement, which can cause disruption of service and electrical shock hazards. The locking device is designed to permit insertion of a lockout/tagout device to provide additional security or the ability to padlock.

Safety - Roughneck Plugs and Receptacles feature totally shielded contacts. The synthetic rubber insulator extends past the ends of both male and female contacts for complete safety. Male contacts are equipped with Cooper Interconnect Cam-Lok's Safe Front Insulated Tip to minimize potential shock hazard. It provides the safest high amperage connector in the industry.

Positive Power Connection - Silver-plated, high conductivity copper alloy contacts provide minimum resistance, minimum heating.

## HIGH AMPERAGE CONNECTORS

FOR USE WITH SINGLE CONDUCTOR FOR 313-777 MCM CABLE, 1,000 VOLTS RATED UP TO 1,135 AMPERES.



# Roughneck® Connectors

## ROUGHNECK E1049 SERIES

FOR USE WITH SINGLE CONDUCTOR FOR  
313-777 MCM CABLE, 1,000 VOLTS  
RATED UP TO 1,135 AMPERES.

RATINGS: 1,000 VOLTS UP TO 1,135  
AMPERES CONTINUOUS

STANDARD MATERIALS  
CABLE SIZE: 313 - 777 MCM

CONNECTOR BODY: SYNTHETIC RUBBER


RECEPTACLE HOUSING: EPOXY POWDER  
COATED ALUMINUM ALLOY

RECEPTACLE GASKET: RUBBER

HARDWARE: STAINLESS STEEL

CONTACT: SILVER PLATED COPPER

AGENCY APPROVALS:

 E73864

ENVIRONMENTAL RATING: NEMA 3

## Colored Receptacle Housings and Insulators for Easy Identification

Eight colors are available to provide easy circuit identification when mating plugs with receptacles. Color coding helps prevent reverse phasing on AC circuits or cross polarization on DC circuits to assure correct rotation of motors while providing for operator safety. The insulators can be fastened to the cable by hose clamp or by field vulcanizing. Inexpensive portable vulcanizers are also available. See instruction bulletin for more information.

CABLE SIZE	AMPACITY RATING - 40°C AMBIENT	
	90° C†	125° C†
313 MCM	513 AMPS	636 AMPS
444 MCM	642 AMPS	896 AMPS
535 MCM	724 AMPS	898 AMPS
646 MCM	814 AMPS	1009 AMPS
777 MCM	916 AMPS	1135 AMPS

† Conductor temperature shall not exceed these ratings.



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### Featuring the Smallest Receptacle Footprint in the Industry

- New locking device features all stainless steel hardware.
- Device is “lockout/tagout” compatible.
- 360° mounting capability.
- Two additional mounting positions allow for vertical, horizontal or 45° angle.
- Epoxy powder shell coating provides superior corrosion resistance.
- New colored receptacles housings designed to provide easy circuit identification.
- Eight standard colors available.
- Receptacles are available in single and double-hole.
- Newly designed dust cover can be secured to the receptacle housing.

### ROUGHNECK E1049 SERIES

FOR USE WITH SINGLE CONDUCTOR FOR  
313-777 MCM CABLE

#### TECHNICAL SPECIFICATIONS

VOLTAGE RATING: 1,000 MAX.

AMPERAGE RATING: 1,135 MAX.

