

Specifications & Features

Receptacle Features



New Features

E1015 Ground Lug

- Enables user to terminate ground wire to the shell of the E1049 receptacle
- cURus pending
- See page 15 for ordering information



Ball Check Pin

- Locks latch in place for additional protection in high vibration environments
- Optional on rotating latch
- See page 15 for ordering information



Colored Couplers

- Available in epoxy powder coat!
- See page 15 for ordering information



Applications:

- Roughneck™ plugs and receptacles are built to take heavy abuse while providing a simple, secure and safe connection.
- Roughneck products are designed specifically for oil and gas drilling applications.

Specifications:

Electrical Ratings

- 1000 Volts, Max. AC/DC
- 1135 Amps continuous (1300 Amps intermittent)

Temperature Ratings

- -40°C to 125°C

Materials

- Cable sizes: 4/0 - 777 MCM
- Insulator: rubber
- Receptacle shell: epoxy powder coated aluminum alloy
- Hardware: stainless steel
- Contact: copper

Environmental

- NEMA 3

Certifications

- cURus: E73864
- CE marked



Specifications & Features

Plug Features

- 1 Male contacts**
- Equipped with Cam-Lok's safe front insulated tip



- 2 Specially plated copper contacts**
- Provide minimum resistance and heating

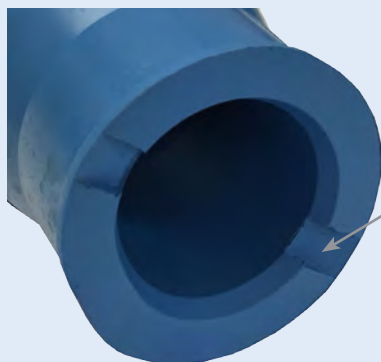
Ampacity Rating - 40°C Ambient

CABLE SIZE	90°C†	125°C†
4/0* NEW!	405 Amps	510 Amps
262 MCM*	455 Amps	567 Amps
313 MCM	513 Amps	636 Amps
444 MCM	642 Amps	796 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.
*See page 15 for ordering information.

New Features

Alignment



- Insulator slots allow installer to align contact drive pins with internal locking mechanism

Contact Stamp



- All contacts marked so end-user can quickly reference cable size and required crimp die

Available Colors - Plugs, Receptacles & Couplers

Ten 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.



White

Yellow

Orange

Black

Red

Purple

Grey

Blue

Green

Brown

Roughneck™ E1049 Series Male & Female Plugs

Cable Size 313 MCM • 1000V AC/DC, Up to 636A Continuous
NEMA 3

Roughneck™ E1049 Series Hex Crimp or Solder

Features

- Contacts machined from solid copper and specially plated for corrosion resistance and superior conductivity
- Color-coded rubber insulator provides quick visual identification of circuit and phase connections
- Watertight insulators provide maximum protection
- Male and female contacts are assembled to cable with standard crimp tools
- Drive pins on contacts securely lock it to the insulator
- Male contacts are equipped with safe front insulated tip

Material Characteristics

- Insulator: rubber
- Environmental: NEMA 3
- Temperature rating: -40°C to 125°C

Testing & Code Compliance

- cURus: E73864
- CE marked

Male Plugs



E1049-34

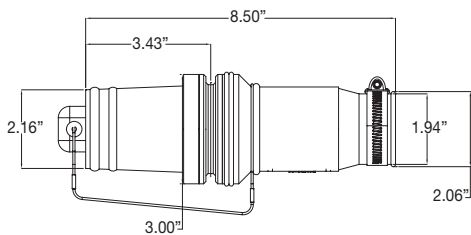
Type of Connection and Wire Size	Color	Complete Male Connector Part No.	Insulator Part No.	Contact Only Part No.
Hexagon Crimp or Solder for 313 MCM	Black	E1049-31	A201106-1	A201107-4
	Yellow	E1049-32	A201106-2	
	Red	E1049-33	A201106-3	
	Orange	E1049-34	A201106-4	
	Green	E1049-35	A201106-5	
	White	E1049-36	A201106-6	
	Blue	E1049-37	A201106-7	
	Brown	E1049-38	A201106-8	
	Purple	E1049-39	A201106-20	
	Gray	E1049-40	A201106-21	

Female Plugs

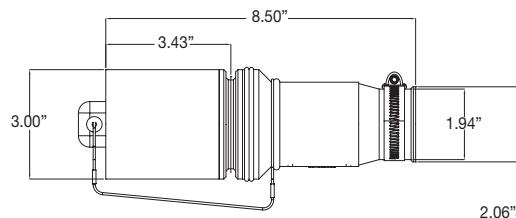


E1049-82

Type of Connection and Wire Size	Color	Complete Female Connector Part No.	Insulator Part No.	Contact Only Part No.
Hexagon Crimp or Solder for 313 MCM	Black	E1049-80	A201100-1	A201103-4
	Yellow	E1049-81	A201100-2	
	Red	E1049-82	A201100-3	
	Orange	E1049-83	A201100-4	
	Green	E1049-84	A201100-5	
	White	E1049-85	A201100-6	
	Blue	E1049-86	A201100-7	
	Brown	E1049-87	A201100-8	
	Purple	E1049-88	A201100-25	
	Gray	E1049-89	A201100-26	



Male Connector



Female Connector

Ampacity Rating - 40°C Ambient

Cable Size	90°C†	125°C†
313 MCM	513 Amps	636 Amps

†Conductor temperature shall not exceed these ratings.