



THE DATASHEET OF 6380-2SG-311

MINI-CON-X® FIELD INSTALLABLE CONNECTORS



Cable Pin

6X8X-XPG-XXX

Matching Mates:

- Cable-Cable
8X8X-XSG-XXX
- Panel
7XXX-XSG-XXX



Panel Mount

7X8X-XXG-XXX

Matching Mates:

- Cable Pin
6X8X-XPG-XXX
- Cable Socket
6X8X-XSG-XXX



P/C Tail Panel Mount

7XXX-XXG-XXX

Matching Mates:

- Cable Pin
6X8X-XPG-XXX
- Cable Socket
6X8X-XSG-XXX



Cable Socket

6X8X-XSG-XXX

Matching Mates:

- Cable-Cable
8X8X-XPG-XXX
- Panel
7XXX-XPG-XXX



Cable to Cable

8X8X-XXG-XXX

Matching Mates:

- Cable Pin
6X8X-XPG-XXX
- Cable Socket
6X8X-XSG-XXX



Dust Cap

6295



Winged Coupling Ring

W/6482

Molded Cable Assemblies (See pages 3 & 26)



Cable End



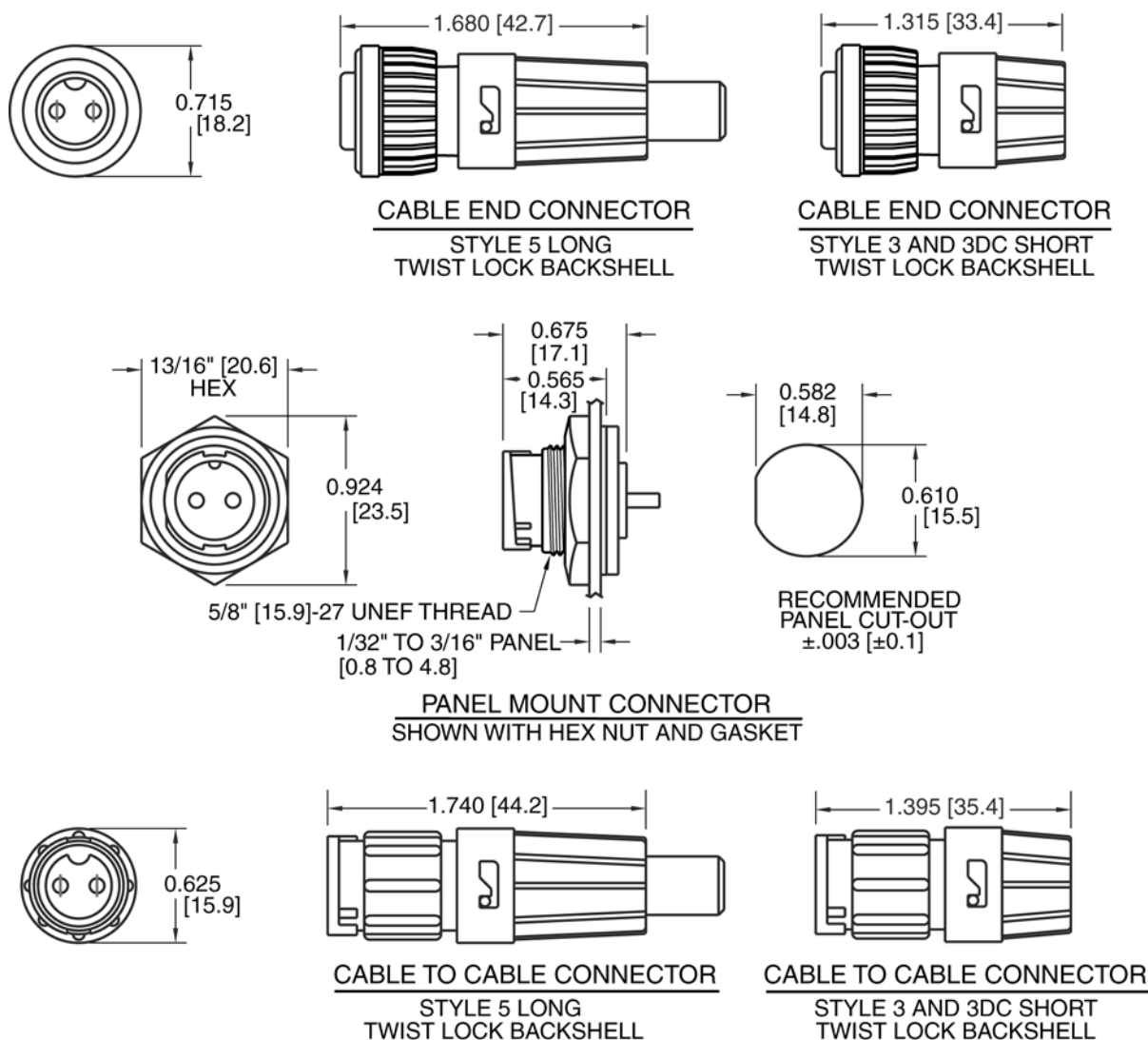
Cable to Cable



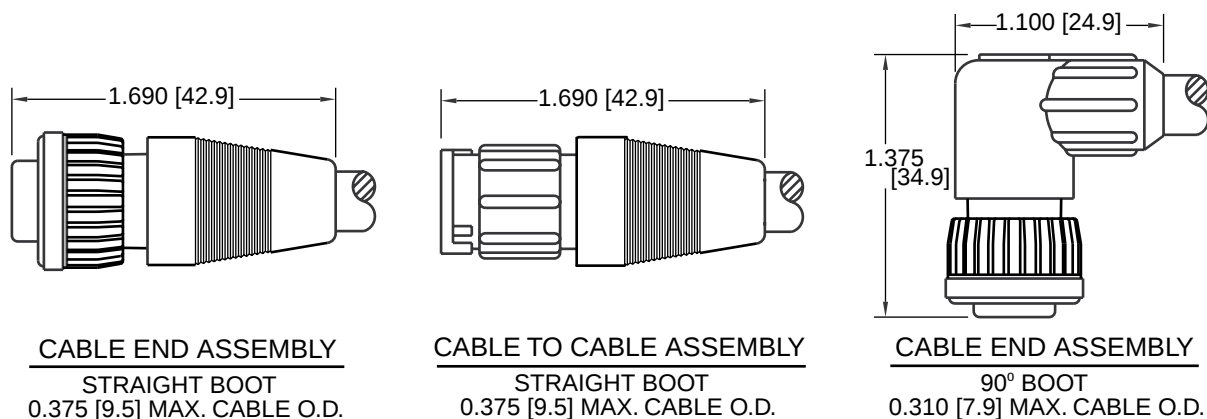
Right Angle

MINI-CON-X® FIELD INSTALLABLE CONNECTORS

Dimensions



Molded Cable Assemblies (See pages 3 & 26)



MINI-CON-X® FIELD INSTALLABLE CONNECTORS

Part Number to Order

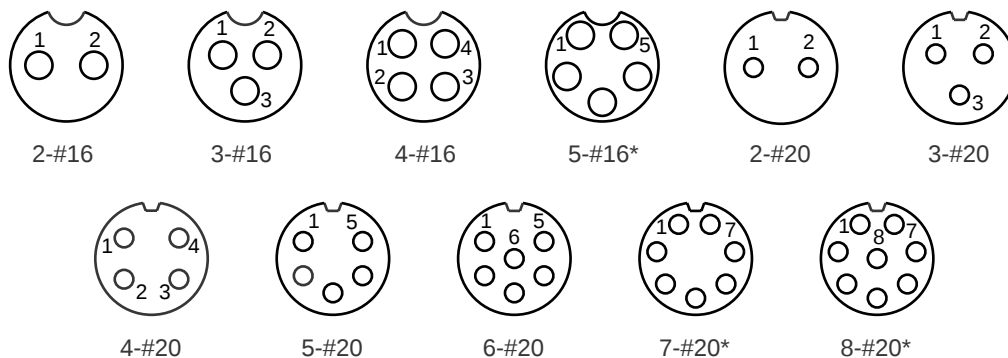
X X XX-XXG-XXX	
Connector Type: _____ 6 - Cable End 7 - Panel Mount 8 - Cable to Cable Contact Size: _____ 2 - #20 (2-8 Contacts) 3 - #16 (2-5 Contacts) Contact Style: _____ 80 - Crimp (Supplied loose) 81 - P/C Tail .187" (4.7) (Supplied assembled) 82 - Solder Cup (Supplied assembled) 91 - P/C Tail .280" (7.1) (Supplied assembled)* 92 - P/C Tail .335" (8.5) (Supplied assembled)* Number of Contacts: _____ 2, 3, 4, 5, 6, 7 & 8 Type of Contact: _____ P - Pin S - Socket Contact Plating: _____ G - Gold over Nickel (Standard)	Grommet Code – Cable O.D. Range: Back Shell Style 3 11 - .09 - .14 (2.3 - 3.5) 15 - .15 - .17 (3.8 - 4.3) 18 - .18 - .20 (4.6 - 5.1) 21 - .21 - .23 (5.3 - 5.8) Back Shell Style 5 13 - .13 - .15 (3.3 - 3.8) 16 - .16 - .18 (4.1 - 4.6) 19 - .19 - .21 (4.8 - 5.3) 22 - .22 - .25 (5.6 - 6.3) Back Shell Style: 3 Weathertight grommet grip/seal & (1) interfacial "O" ring. 3DC - Daisy chain grommet with 3 I.D.s. (.125, .188 & .250) 5 Long back shell with extended grommet & cable grip. Use with crimp or solder. 300 - Panel mount with hex nut & gasket. 3ES - 300 with Epoxy

*Available in #20 size contact only.

Consult factory for optional threaded coupling..

Consult factory for your custom design cable assemblies and connectors. (See pages 3 & 26)

Contact Arrangements



Contact arrangements shown are wiring view of cable end pins/sockets.

Key/keyway shown for orientation only.

*Available in connector types: cable end socket, panel mount pin, and cable to cable pin styles only.

MINI-CON-X® FIELD INSTALLABLE CONNECTORS

Specifications

Typical Specifications

Manufacturers Identifications

Description

Rating

Conductor Size

Configuration

Certification

Mini-Con-X®

Field Installable Connector & Custom Cable Assemblies

4.8 thru 13.0A, 600V

#16 contacts, 16 thru 18 AWG

#20 contacts, 20 thru 24 AWG

2 thru 5 #16 Contacts or 2 thru 8 #20 Contacts

UL Recognized File #E138878 - 250V

CSA Certified File #LR89277 - 600V

Material Specifications

Cable Pin/Socket

Backshell (Removable Twist Lock)

Grommet

Coupling Ring

Contacts

Connector Body

O-Ring

Nylon, UL Recognized, Black

Santoprene Rubber, Black

Nylon, UL Recognized, Black

Brass, Gold over Nickel

Nylon, UL Recognized, Black

Nitrile Rubber, Black

Optional

Long Backshell (Removable Twist Lock)

Winged Coupling Ring

Nylon, UL Recognized, Black (Style #5)

Nylon, UL Recognized, Black (W/6482)

Cable to Cable

Backshell (Removable Twist Lock)

Grommet

Contacts

Connector Body

Nylon, UL Recognized, Black

Santoprene Rubber, Black

Brass, Gold over Nickel

Nylon, UL Recognized, Black

Panel Mount

Contacts

Panel Body

Gasket

Hex Nut

Brass, Gold over Nickel

Nylon, UL Recognized, Black

Nitrile Rubber, Black

Nylon, UL Recognized, Black

Optional

Dust Cap

Santoprene Rubber, Black (Part No. 6295)

Mechanical Specifications

Durability

Vibration

Minimum 300 mate/unmate cycles without mechanical or electrical failure

Coupling rings have overriding locking feature to prevent loosening or separation of connector

All series hex nut to withstand 10-12 inch/lb tightening torque

Hex Nut Torque

Electrical Specifications

Voltage

Current

600 V

See Electrical Current Rating Chart (Page 27)

Environmental Specifications

Temperature Rating

Corrosion

Weathertight

-55°C to +125°C (-67°F to +257°F)

300 Hr salt spray contacts

Consult factory with specific application

Molded Cable Assemblies

Watertight

(See Pages 3 & 26)

NEMA 6P, 13: IEC IP67

Looking for pricing, stock, or lifecycle information?

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 [Conxall/Switchcraft](#) Information

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