

# 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



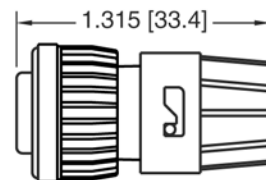
## Right Angle

# MINI-CON-X® FIELD INSTALLABLE CONNECTORS

## Dimensions



**CABLE END CONNECTOR**  
STYLE 5 LONG  
TWIST LOCK BACKSHELL



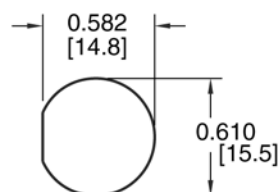
**CABLE END CONNECTOR**  
STYLE 3 AND 3DC SHORT  
TWIST LOCK BACKSHELL



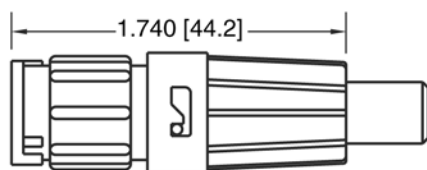
5/8\" [15.9]-27 UNEF THREAD  
1/32\" TO 3/16\" PANEL  
[0.8 TO 4.8]



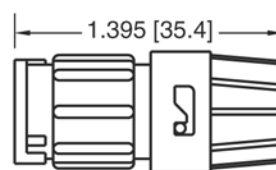
**PANEL MOUNT CONNECTOR**  
SHOWN WITH HEX NUT AND GASKET



RECOMMENDED  
PANEL CUT-OUT  
±.003 [±0.1]



**CABLE TO CABLE CONNECTOR**  
STYLE 5 LONG  
TWIST LOCK BACKSHELL



**CABLE TO CABLE CONNECTOR**  
STYLE 3 AND 3DC SHORT  
TWIST LOCK BACKSHELL

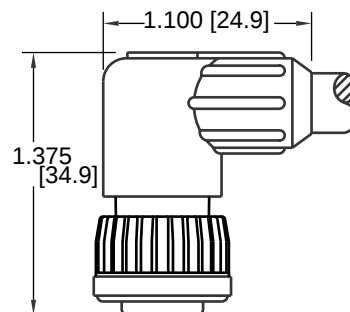
## Molded Cable Assemblies (See pages 3 & 26)



**CABLE END ASSEMBLY**  
STRAIGHT BOOT  
0.375 [9.5] MAX. CABLE O.D.



**CABLE TO CABLE ASSEMBLY**  
STRAIGHT BOOT  
0.375 [9.5] MAX. CABLE O.D.



**CABLE END ASSEMBLY**  
90° BOOT  
0.310 [7.9] MAX. CABLE O.D.

# MINI-CON-X® FIELD INSTALLABLE CONNECTORS

## Part Number to Order

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

\*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