

# MINI-CON-X® FIELD INSTALLABLE CONNECTORS



**Cable Pin**  
6X8X-XPB-XXX  
**Matching Mates:**

- Cable-Cable  
8X8X-XSB-XXX
- Panel  
7XXX-XSB-XXX



**Panel Mount**  
7X8X-XXB-XXX  
**Matching Mates:**

- Cable Pin  
6X8X-XPB-XXX
- Cable Socket  
6X8X-XSB-XXX



**P/C Tail Panel Mount**  
7XXX-XXB-XXX  
**Matching Mates:**

- Cable Pin  
6X8X-XPB-XXX
- Cable Socket  
6X8X-XSB-XXX



**Cable Socket**  
6X8X-XSB-XXX  
**Matching Mates:**

- Cable-Cable  
8X8X-XPB-XXX
- Panel  
7XXX-XPB-XXX



**Cable to Cable**  
8X8X-XXB-XXX  
**Matching Mates:**

- Cable Pin  
6X8X-XPB-XXX
- Cable Socket  
6X8X-XSB-XXX



**Dust Cap**  
6295



**Winged Coupling Ring**  
W/6482

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



**Cable End**



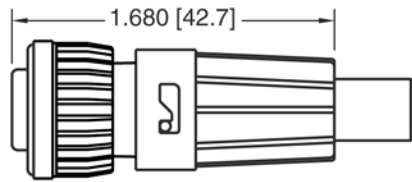
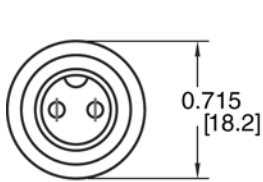
**Cable to Cable**



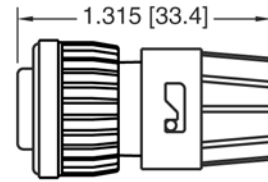
**Right Angle**

# MINI-CON-X® FIELD INSTALLABLE CONNECTORS

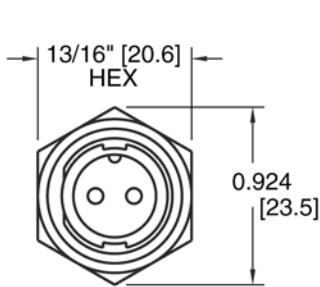
## Dimensions



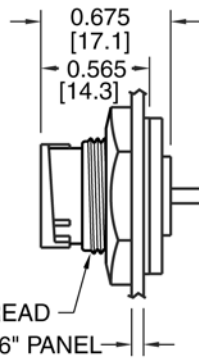
**CABLE END CONNECTOR**  
STYLE 5 LONG  
TWIST LOCK BACKSHELL



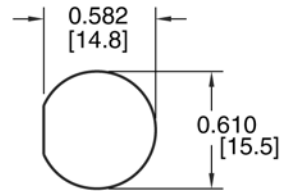
**CABLE END CONNECTOR**  
STYLE 3 AND 3DC SHORT  
TWIST LOCK BACKSHELL



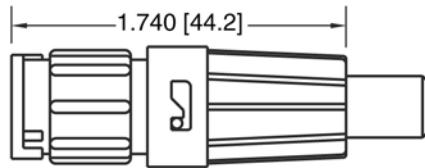
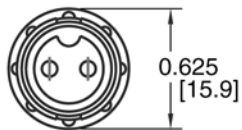
5/8" [15.9]-27 UNEF THREAD  
1/32" TO 3/16" PANEL  
[0.8 TO 4.8]



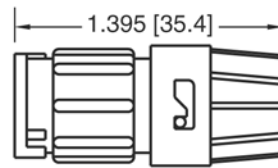
**PANEL MOUNT CONNECTOR**  
SHOWN WITH HEX NUT AND GASKET



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

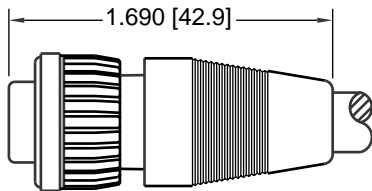


**CABLE TO CABLE CONNECTOR**  
STYLE 5 LONG  
TWIST LOCK BACKSHELL

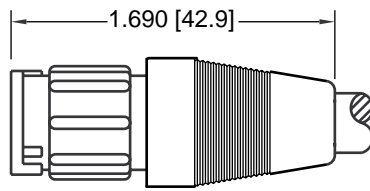


**CABLE TO CABLE CONNECTOR**  
STYLE 3 AND 3DC SHORT  
TWIST LOCK BACKSHELL

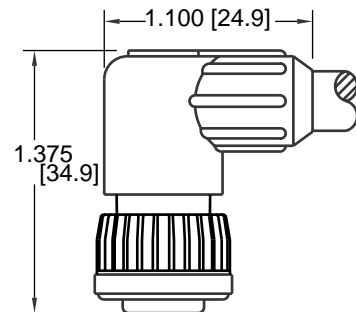
## Molded Cable Assemblies (See pages 3 & 26)



**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

**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:

- 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 3

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:

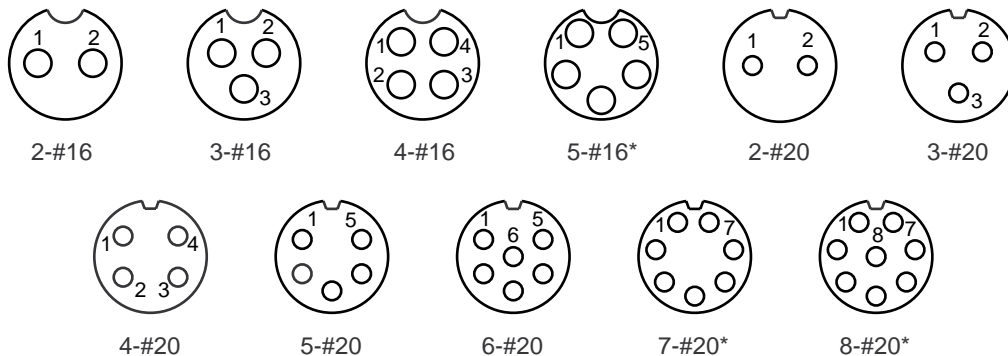
- 3 Weathertight grommet grip/seal & (1) interfacial "O" ring.
- 3DC - Daisy chain grommet with 3 I.D.s. (.125, .188 & .250)
- 5 Long back shell with extended grommet & cable grip. Use with crimp or solder.
- 300 - Panel mount with hex nut & gasket.
- 3ES - 300 with Epoxy

\*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<sup>®</sup> FIELD INSTALLABLE CONNECTORS

## Specifications

### Typical Specifications

|                               |  |
|-------------------------------|--|
| Manufacturers Identifications | Mini-Con-X <sup>®</sup>  |
| Description                   | Field Installable Connector & Custom Cable Assemblies                    |
| Rating                        | 4.8 thru 13.0A, 600V   |
| Conductor Size                | #16 contacts, 16 thru 18 AWG<br>#20 contacts, 20 thru 24 AWG             |
| Configuration                 | 2 thru 5 #16 Contacts or 2 thru 8 #20 Contacts                           |
| Certification                 | UL Recognized File #E138878 - 250V<br>CSA Certified File #LR89277 - 600V |

### Material Specifications

#### Cable Pin/Socket

|                                  |                             |
|----------------------------------|-----------------------------|
| Backshell (Removable Twist Lock) | Nylon, UL Recognized, Black |
| Grommet                          | Santoprene Rubber, Black    |
| Coupling Ring                    | Nylon, UL Recognized, Black |
| Contacts                         | Brass, Gold over Nickel     |
| Connector Body                   | Nylon, UL Recognized, Black |
| O-Ring                           | Nitrile Rubber, Black       |

#### Optional

|                                       |  |
|---------------------------------------|--|
| Long Backshell (Removable Twist Lock) | Nylon, UL Recognized, Black (Style #5) |
| Winged Coupling Ring                  | Nylon, UL Recognized, Black (W/6482)   |

#### Cable to Cable

|                                  |                             |
|----------------------------------|-----------------------------|
| Backshell (Removable Twist Lock) | Nylon, UL Recognized, Black |
| Grommet                          | Santoprene Rubber, Black    |
| Contacts                         | Brass, Gold over Nickel     |
| Connector Body                   | Nylon, UL Recognized, Black |

#### Panel Mount

|            |                             |
|------------|-----------------------------|
| Contacts   | Brass, Gold over Nickel     |
| Panel Body | Nylon, UL Recognized, Black |
| Gasket     | Nitrile Rubber, Black       |
| Hex Nut    | Nylon, UL Recognized, Black |

#### Optional

|          |  |
|----------|--|
| Dust Cap | Santoprene Rubber, Black (Part No. 6295) |
|----------|--|

### Mechanical Specifications

|                |  |
|----------------|--|
| Durability     | Minimum 300 mate/unmate cycles without mechanical or electrical failure                        |
| Vibration      | Coupling rings have overriding locking feature to prevent loosening or separation of connector |
| Hex Nut Torque | All series hex nut to withstand 10-12 inch/lb tightening torque                                |

### Electrical Specifications

|         |   |
|---------|---|
| Voltage | 600 V   |
| Current | See Electrical Current Rating Chart (Page 27) |

### Environmental Specifications

|                    |   |
|--------------------|---|
| Temperature Rating | -55°C to +125°C (-67°F to +257°F)         |
| Corrosion          | 300 Hr salt spray contacts                |
| Weatheright        | Consult factory with specific application |

### Molded Cable Assemblies

|            |   |
|------------|---|
| Watertight | (See Pages 3 & 26)<br>NEMA 6P, 13: IEC IP67 |
|------------|---|