

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



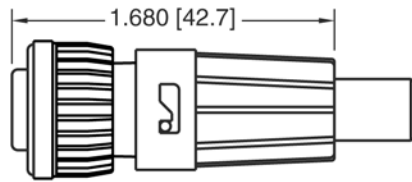
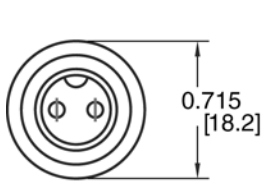
Cable to Cable



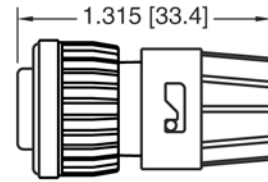
Right Angle

MINI-CON-X® FIELD INSTALLABLE CONNECTORS

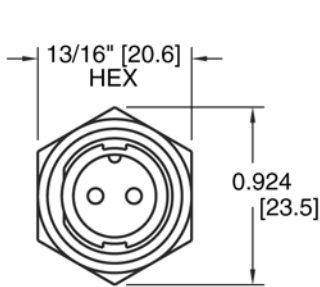
Dimensions



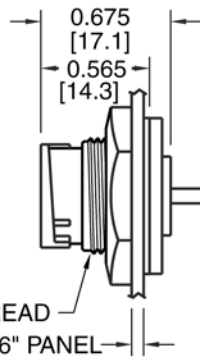
CABLE END CONNECTOR
STYLE 5 LONG
TWIST LOCK BACKSHELL



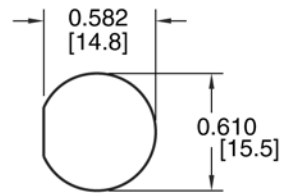
CABLE END CONNECTOR
STYLE 3 AND 3DC SHORT
TWIST LOCK BACKSHELL



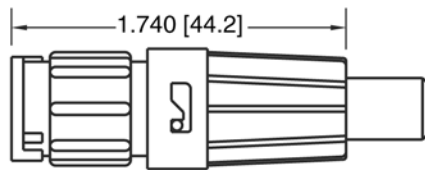
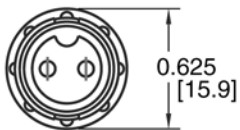
5/8" [15.9]-27 UNEF THREAD
1/32" TO 3/16" PANEL
[0.8 TO 4.8]



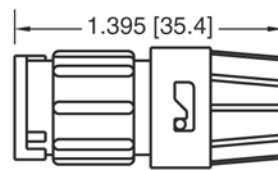
PANEL MOUNT CONNECTOR
SHOWN WITH HEX NUT AND GASKET



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

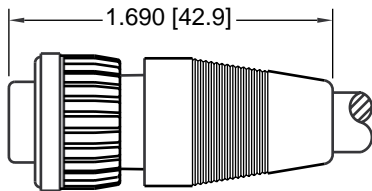


CABLE TO CABLE CONNECTOR
STYLE 5 LONG
TWIST LOCK BACKSHELL

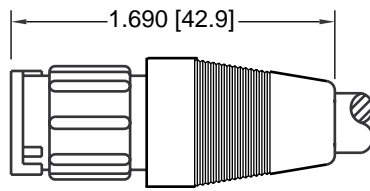


CABLE TO CABLE CONNECTOR
STYLE 3 AND 3DC SHORT
TWIST LOCK BACKSHELL

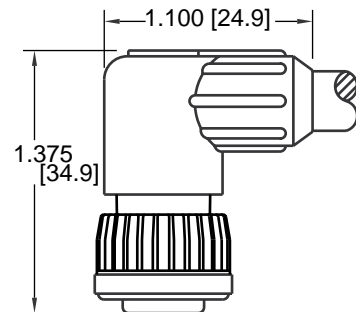
Molded Cable Assemblies (See pages 3 & 26)



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

- 13 - .13 - .15 (3.3 - 3.8)

Back Shell Style 5

- 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.

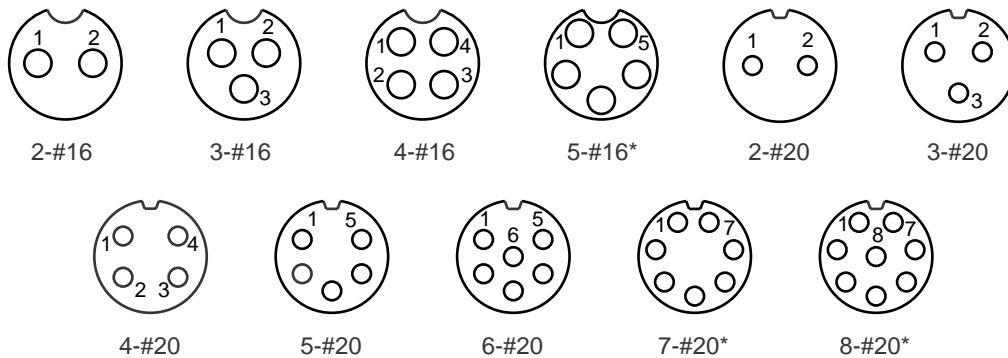
3ES - 300 with Epoxy

*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 | Mini-Con-X® |
| Description | Field Installable Connector & Custom Cable Assemblies |
| Rating | 4.8 thru 13.0A, 600V |
| Conductor Size | #16 contacts, 16 thru 18 AWG #20 contacts, 20 thru 24 AWG |
| Configuration | 2 thru 5 #16 Contacts or 2 thru 8 #20 Contacts |
| Certification | UL Recognized File #E138878 - 250V 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) NEMA 6P, 13: IEC IP67 |
|------------|---|