

# MULTI-CON-X® FIELD INSTALLABLE CONNECTORS



**Cable Pin**  
3X8X-XPB-XXX  
**Matching Mates:**  
• **Cable-Cable**  
5X8X-XSB-XXX  
• **Panel**  
4XXX-XSB-XXX



**Panel Mount**  
4X8X-XXB-XXX  
**Matching Mates:**  
• **Cable Pin**  
3X8X-XPB-XXX  
• **Cable Socket**  
3X8X-XSB-XXX



**P/C Tail Panel Mount**  
4XXX-XXB-XXX  
**Matching Mates:**  
• **Cable Pin**  
3X8X-XPB-XXX  
• **Cable Socket**  
3X8X-XSB-XXX



**Cable Socket**  
3X8X-XSB-XXX  
**Matching Mates:**  
• **Cable-Cable**  
5X8X-XPB-XXX  
• **Panel**  
4XXX-XPB-XXX



**Cable to Cable**  
5X8X-XXB-XXX  
**Matching Mates:**  
• **Cable Pin**  
3X8X-XPB-XXX  
• **Cable Socket**  
3X8X-XSB-XXX



**Mechanical Back Shell**  
(Style #5)



**Square Flange Adapter**  
4296



**Square Flange Gasket**  
4297



**Dust Cap**  
4295



**Winged Coupling Ring**  
W/4482

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



**Cable End**



**Cable to Cable**



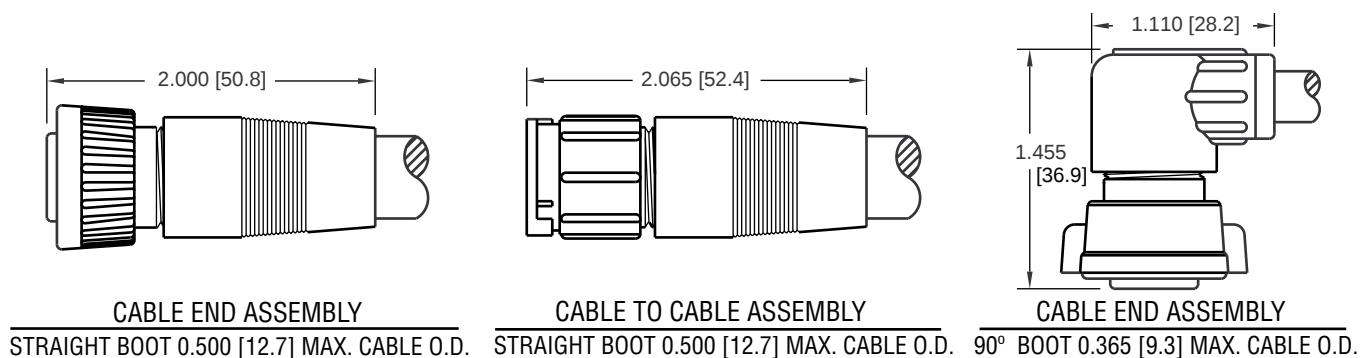
**Right Angle**

# MULTI-CON-X® FIELD INSTALLABLE CONNECTORS

## Dimensions



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



# MULTI-CON-X® FIELD INSTALLABLE CONNECTORS

## Part Number to Order

|                                                                                                                                                                                                                                                            |  |          |          |             |               |                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|----------|-------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                            |  | <b>X</b> | <b>X</b> | <b>XX-X</b> | <b>XG-XXX</b> |                                                                                                                                                                                                                     |
| <b>Connector Type:</b> _____<br>3 - Cable End<br>4 - Panel Mount<br>5 - Cable to Cable                                                                                                                                                                     |  |          |          |             |               | <b>Grommet Code – Cable O.D. Range:</b><br>15 - .15 - .17 (3.8-4.3)<br>18 - .18 - .20 (4.6-5.1)<br>21 - .21 - .23 (5.3-5.8)<br>24 - .24 - .27 (6.1-6.8)<br>28 - .24 - .28 (7.1-7.4)<br>30 - .30 - .32 (7.6-8.1)     |
| <b>Contact Size:</b> _____<br>1 - #12 (2-4 Contacts)<br>2 - #20 (4-9 Contacts)<br>3 - #16 (4-6 Contacts)                                                                                                                                                   |  |          |          |             |               | <b>Back Shell Style 3 or 5</b>                                                                                                                                                                                      |
| <b>Contact Style:</b> _____<br>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)* |  |          |          |             |               | <b>Back Shell Style:</b><br>3 - Weathertight grommet grip/seal & (1) interfacial "O"ring.<br>3DC - Daisy chain grommet with 3 I.D.s (.125, .188 & .250)<br>5 - Mechanical screw-down cable clamp with grommet seal. |
| <b>Number of Contacts:</b> _____<br>2, 3, 4, 5, 6, 7, 8 & 9                                                                                                                                                                                                |  |          |          |             |               | 300 - Panel mount with hex nut & gasket.<br>3ES - 300 with Epoxy (Panel Mount Only)                                                                                                                                 |
| <b>Type of Contact:</b> _____<br>P - Pin<br>S - Socket                                                                                                                                                                                                     |  |          |          |             |               |                                                                                                                                                                                                                     |
| <b>Contact Plating:</b> _____<br>G - Gold over Nickel (Standard)                                                                                                                                                                                           |  |          |          |             |               |                                                                                                                                                                                                                     |

EMI/RFI shielded assemblies available - consult factory.  
 \*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.

# MULTI-CON-X® FIELD INSTALLABLE CONNECTORS

## Specifications

### Typical Specifications

#### Manufacturers Identifications

Description

Rating

Conductor Size

Multi-Con-X®

Field Installable Connector & Custom Cable Assemblies

1.95 thru 23.0A, 600V

#12 Contacts, 12 thru 14 AWG

#16 Contacts, 16 thru 18 AWG

#20 Contacts, 20 thru 24 AWG

Configuration

2 thru 4 #12 Contacts

4 thru 6 #16 Contacts

4 thru 9 #20 Contacts

Certification

UL Recognized File #E138878 - 250V

CSA Certified File #LR89277 - 600V

### Material Specifications

#### Cable Pin/Socket

Backshell (Threaded)

Grommet

Coupling Ring

Contacts

Connector Body

O-Ring

Sleeve

Nylon, UL Recognized, Black (Style #3)

Santoprene Rubber, Black

Nylon, UL Recognized, Black

Brass, Gold over Nickel

Nylon, UL Recognized, Black

Nitrile Rubber, Black

Nylon, UL Recognized, Black

#### Cable to Cable

Backshell (Threaded)

Grommet

Contacts

Connector Body

Nylon, UL Recognized, Black (Style #3)

Santoprene, Rubber, Black

Brass, Gold over Nickel

Nylon, UL Recognized, Black

#### Optional

Long Backshell (Threaded)

Winged Coupling Ring

Mechanical Backshell (Threaded)

– Strap

– Screws

Nylon, UL Recognized, Black (Style #3 with solder contacts)

Nylon, UL Recognized, Black (W/4482)

Nylon, UL Recognized, Black (Style #5)

Nylon, UL Recognized, Black

Cadmium Plated

#### 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

Square Flange Adapter

Square Flange Adapter Gasket

Santoprene Rubber, Black (Part No. 4295)

Nylon, UL Recognized, Black (Part No. 4296)

Nitrile Rubber, Black (Part No. 4297)

### 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

Hex Nut Torque

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