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# MULTI-CON-X® FIELD INSTALLABLE CONNECTORS



**Cable Pin**  
3X8X-XPB-XXX  
**Matching Mates:**

- Cable-Cable  
5X8X-XSG-XXX
- Panel  
4XXX-XSG-XXX



**Panel Mount**  
4X8X-XXG-XXX  
**Matching Mates:**

- Cable Pin  
3X8X-XPB-XXX
- Cable Socket  
3X8X-XSG-XXX



**P/C Tail Panel Mount**  
4XXX-XXG-XXX  
**Matching Mates:**

- Cable Pin  
3X8X-XPB-XXX
- Cable Socket  
3X8X-XSG-XXX



**Cable Socket**  
3X8X-XSG-XXX  
**Matching Mates:**

- Cable-Cable  
5X8X-XPB-XXX
- Panel  
4XXX-XPB-XXX



**Cable to Cable**  
5X8X-XXG-XXX  
**Matching Mates:**

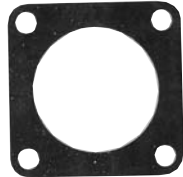
- Cable Pin  
3X8X-XPB-XXX
- Cable Socket  
3X8X-XSG-XXX



**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

**X X XX-X XG-XXX**

Connector Type: \_\_\_\_\_

- 3 - Cable End
- 4 - Panel Mount
- 5 - Cable to Cable

Contact Size: \_\_\_\_\_

- 1 - #12 (2-4 Contacts)
- 2 - #20 (4-9 Contacts)
- 3 - #16 (4-6 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 & 9

Type of Contact: \_\_\_\_\_

- P - Pin
- S - Socket

Contact Plating: \_\_\_\_\_

- 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)

Grommet Code -

Cable O.D. Range:

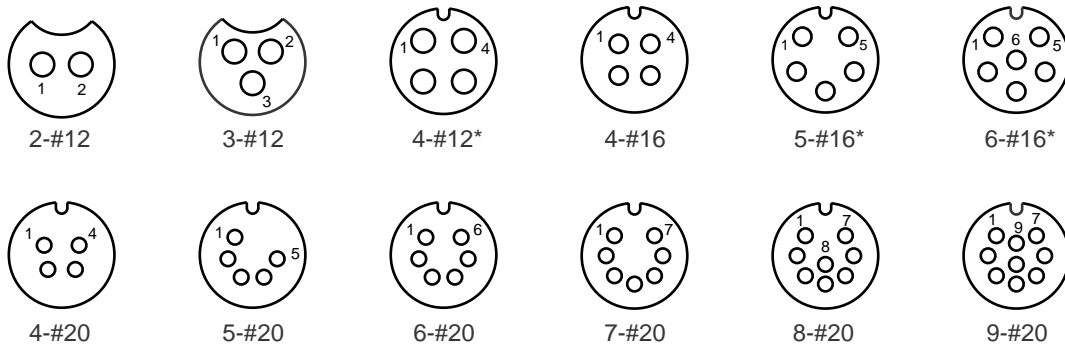
- 15 - .15 - .17 (3.8-4.3)
- 18 - .18 - .20 (4.6-5.1)
- 21 - .21 - .23 (5.3-5.8)
- 24 - .24 - .27 (6.1-6.8)
- 28 - .24 - .28 (7.1-7.4)
- 30 - .30 - .32 (7.6-8.1)

Back Shell  
Style  
3 or 5

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 - Mechanical screw-down cable clamp with grommet seal.
- 300 - Panel mount with hex nut & gasket.
- 3ES - 300 with Epoxy (Panel Mount Only)

## 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<sup>®</sup> FIELD INSTALLABLE CONNECTORS

## Specifications

### Typical Specifications

|                               |  |
|-------------------------------|--|
| Manufacturers Identifications | Multi-Con-X <sup>®</sup>   |
| Description                   | Field Installable Connector & Custom Cable Assemblies  |
| Rating                        | 1.95 thru 23.0A, 600V  |
| Conductor Size                | #12 Contacts, 12 thru 14 AWG<br>#16 Contacts, 16 thru 18 AWG<br>#20 Contacts, 20 thru 24 AWG |
| Configuration                 | 2 thru 4 #12 Contacts<br>4 thru 6 #16 Contacts<br>4 thru 9 #20 Contacts                      |
| Certification                 | UL Recognized File #E138878 - 250V<br>CSA Certified File #LR89277 - 600V                     |

### Material Specifications

#### Cable Pin/Socket

|                      |  |
|----------------------|--|
| Backshell (Threaded) | Nylon, UL Recognized, Black (Style #3) |
| 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                  |
| Sleeve               | Nylon, UL Recognized, Black            |

#### Cable to Cable

|                      |  |
|----------------------|--|
| Backshell (Threaded) | Nylon, UL Recognized, Black (Style #3) |
| Grommet              | Santoprene, Rubber, Black              |
| Contacts             | Brass, Gold over Nickel                |
| Connector Body       | Nylon, UL Recognized, Black            |

#### Optional

|                                 |   |
|---------------------------------|---|
| Long Backshell (Threaded)       | Nylon, UL Recognized, Black (Style #3 with solder contacts) |
| Winged Coupling Ring            | Nylon, UL Recognized, Black (W/4482)                        |
| Mechanical Backshell (Threaded) | Nylon, UL Recognized, Black (Style #5)                      |
| - Strap                         | Nylon, UL Recognized, Black                                 |
| - Screws                        | Cadmium Plated  |

#### 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. 4295)    |
| Square Flange Adapter        | Nylon, UL Recognized, Black (Part No. 4296) |
| Square Flange Adapter Gasket | Nitrile Rubber, Black (Part No. 4297)       |

### 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                |
| Weather-tight      | Consult factory with specific application |

### Molded Cable Assemblies

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