STANDARD CONNECTOR PRODUCTS

Low-cost Standard and Weathertight Connectors for Industrial and Marine Applications.

A completely indoor/outdoor connector system that offers performance and reliability features of MIL-Spec connectors at the cost of a commercial type product.

Economical...The all molded nylon construction provides for substantial savings in cost that helps hold the line on cost objectives without sacrificing performance.

Standard Assemblies

Ideally satisfies power connections for test instruments, calibration or measuring equipment, communications systems, data processing, entertainment devices and a wide range of non-environmental applications where economy and maintenance-free reliability are essential. Especially suited to laboratory instruments, medical analysis devices, automotive test equipment, computer peripherals, recording instruments, etc....

Style...Designed for demanding service although attractive and modern in appearance to complement the most sophisticated equipment.

Lightweight/Strong...50% weight savings over similar metal construction yet has tough, high-impact strength to withstand hard abuse both indoors and outdoors.

Weathertight Assemblies

Optional panel connector gaskets and interfacial "O" ring seals maintain a weathertight connection for outdoor use. The non-corrosive, high impact, all molded construction is perfect for recreational, agricultural or on/off the road vehicle connections. Hazards of electrical shock are minimized in addition to resistance to hostile outdoor environment. Frequently specified for depth sounders, metal detectors, marine/aircraft electronics, boat trailers, electronic farm implements, food processing equipment, etc.

Molded Cable Assemblies (See pages 3 & 26)

Complete Facilities to Assemble and/or Mold All Connector Styles to Many Cable Constructions

Permanently Molded...Cable and connectors are molded together in a choice of attractive boot shapes to add functional improvements to your product.

Accident Proof...Molded encapsulation between cable and connector prevents pull-out or breakage of internal wires for maintenance free operation.

Weathertight...This construction prevents ingress of moisture into contact areas.

Saves Time and Money...Avoids setting up new production line and training personnel plus cost of maintaining inventories.

STANDARD CONNECTOR FEATURES

Panel Connector mounts from behind in round or "D" shaped hole and are securely fastened with hex nut on the front of the panel. Standard assembly include weathertight gasket.

Premium Quality The standard screwmachine socket contact has premium design features at low cost. The closed entry prevents probe damage or accidental loss of spring retention due to misaligned or bent pins.

Reverse Contact Options are available providing pin or socket contacts in all styles.

Locking Type coupling ring prevents accidental disconnect. Quick 90 degree connect/disconnect rotation or threaded.

Cable Splices and/or extension cables can be easily made using the cable to cable connectors.

Unassembled Cable Connectors without mold-on cables are available. This option provides for field installation or replacement service on existing cable assemblies.

Dimensions and Specifications are for reference only and may change without notice where it does not affect form, fit or function.

Electrical Rating Tables are for reference only and are based on continuous current carrying capacity of the connector with all contacts carrying current.

Packaging and Warranty

Packaging

Connectors: Standard Con-X series components are packaged unassembled and individually

> bulk packed. Kitted packaging, one complete connector per bag, available upon request for an additional cost. Mil-E-Qual components are assembled and indi-

vidually kitted in plastic bags.

Cable Assemblies: Assemblies less than 3 ft., including connector head, are bundled and boxed.

Assemblies over 3 ft., including connector head, are coiled, secured with cable tie

and boxed.

Warranty

CONXALL Corp. manufactures the finest quality product available to the marketplace. However, these products are intended to be used in accordance with the specifications described in this catalog. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe. A limited warranty applies to all CONXALL Corp. products. Except for obligations specifically assumed by CONXALL Corp. under warranty, CONXALL Corp. will not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind whether or not based upon expressed or implied warranty, contract, negligence, or strict liability arising in connection with the design, manufacture, sale, use or repair of the products.



Cable Pin 1628X-XPG-XXX

Matching Mates:

- Cable-Cable 1828X-XSG-XXX
- Panel 172XX-XSG-XXX



Panel Mount 1728X-XXG-XXX

Matching Mates:

- Cable Pin 1628X-XPG-XXX
- Cable Socket 1628X-XSG-XXX



P/C Tail Panel Mount 172XX-XXG-XXX

Matching Mates:

- Cable Pin 1628X-XPG-XXX
- Cable Socket 1628X-XSG-XXX



Cable Socket

1628X-XSG-XXX

Matching Mates:

- Cable-Cable 1828X-XPG-XXX
- Panel 172XX-XPG-XXX



Cable to Cable

1828X-XXG-XXX

Matching Mates:

- Cable Pin
 - 1628X-XPG-XXX
- Cable Socket 1628X-XSG-XXX



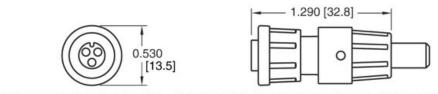
Dust Cap 16295

Molded Cable Assemblies (See pages 3 & 26)

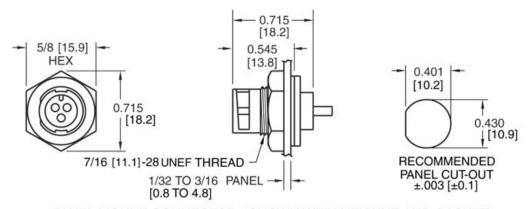


MICRO-CON-X® FIELD INSTALLABLE CONNECTORS

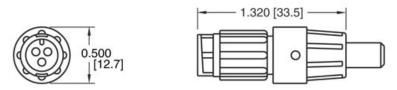
Dimensions (Dimensions in brackets are in millimeters)



CABLE END CONNECTOR - WITH SNAP LOCK BACKSHELL (NON-REMOVABLE)

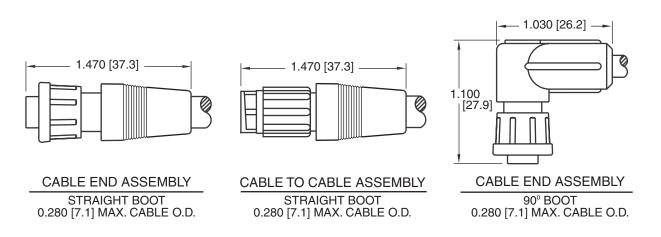


PANEL MOUNT CONNECTOR - SHOWN WITH HEX NUT AND GASKET



CABLE TO CABLE CONNECTOR - WITH SNAP LOCK BACKSHELL (NON-REMOVEABLE)

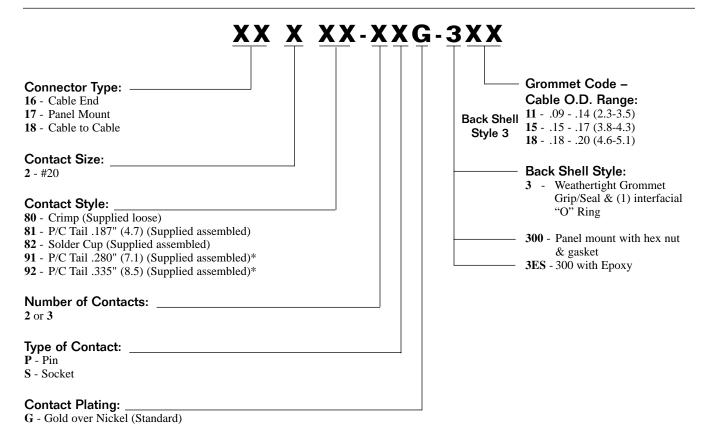
Molded Cable Assemblies (See pages 3 & 26)



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MICRO-CON-X® FIELD INSTALLABLE CONNECTORS

Part Number to Order



^{*}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



CABLE PIN, PANEL SOCKET AND CABLE TO CABLE SOCKET ONLY





CABLE SOCKET, PANEL PIN AND CABLE TO CABLE PIN ONLY

Contact arrangements shown are wiring view of cable end pins/sockets. Key/keyway shown for orientation only.

For higher density patterns, consult factory.

MICRO-CON-X® FIELD INSTALLABLE CONNECTORS

Micro-Con-X®

Specifications

Typical Specifications

Manufacturers Identifications

Field Installable Connector & Custom Cable Assemblies Description

3.0 thru 7.5A, 600V Rating Conductor Size 20 thru 24 AWG Configuration 2 & 3 #20 Contacts

Certification UL Recognized File #E150822 - 250V

CSA Certified File #181200 - 600V

Material Specifications

Cable Pin/Socket

Backshell (Non-Removable Snap Lock) Nylon, UL Recognized, Black Santoprene Rubber, Black Grommet

Nylon, UL Recognized, Black Coupling Ring Contacts Brass, Gold over Nickel Connector Body Nylon, UL Recognized, Black

Neoprene Rubber, Black O-Ring

Cable to Cable

Backshell (Non-Removable Snap Lock) Nylon, UL Recognized, Black Santoprene Rubber, Black Grommet

Brass, Gold over Nickel Contacts Nylon, UL Recognized, Black Connector Body

Panel Mount

Contacts Brass, Gold over Nickel Panel Body Nylon, UL Recognized, Black Gasket Neoprene Rubber, Black

Hex Nut **Optional**

Dust Cap Santoprene Rubber, Black (Part No. 16295)

> Gasket, O-Ring, & Grommet materials are suitable for -40°C to +90°C (-40°F to +194°F). Consult factory for higher temperature requirements.

Mechanical Specifications

Minimum 300 mate/unmate cycles without mechanical or electrical Durability

Vibration Coupling rings have overriding locking feature to prevent

loosening or separation of connector

Nylon, UL Recognized, Black

All series hex nut to withstand 10-12 inch/lb tightening torque. Hex Nut Torque

Electrical Specifications

Voltage

Current See Electrical Current Rating Chart (Page 27)

Environmental Specifications

-40°C to +115°C (-40°F to +239°F) Temperature Rating

Corrosion 300 Hr salt spray contacts

Consult factory with specific application Weathertight

Molded Cable Assemblies (See Pages 3 & 26)

NEMA 6P, 13: IEC IP67 Watertight



Cable Pin

13X8X-XXPG-XXX

Matching Mates:

- Cable-Cable 15X8X-XXSG-XXX
- Panel 14XXX-XXSG-XXX



Panel Mount

14X8X-XXXG-XXX

Matching Mates:

- Cable Pin 13X8X-XXPG-XXX
- Cable Socket 13X8X-XXSG-XXX



P/C Tail Panel Mount 14XXX-XXXG-XXX

Matching Mates:

- Cable Pin 13X8X-XXPG-XXX
- Cable Socket 13X8X-XXSG-XXX



13X8X-XXSG-XXX

Matching Mates:

- Cable-Cable 15X8X-XXPG-XXX
- Panel 14XXX-XXPG-XXX



Cable to Cable 15X8X-XXXG-XXX

Matching Mates:

- Cable Pin 13X8X-XXPG-XXX
- Cable Socket 13X8X-XXSG-XXX



Winged Coupling Ring W/14482



Dust Cap 14295

Molded Cable Assemblies (See pages 3 & 26)





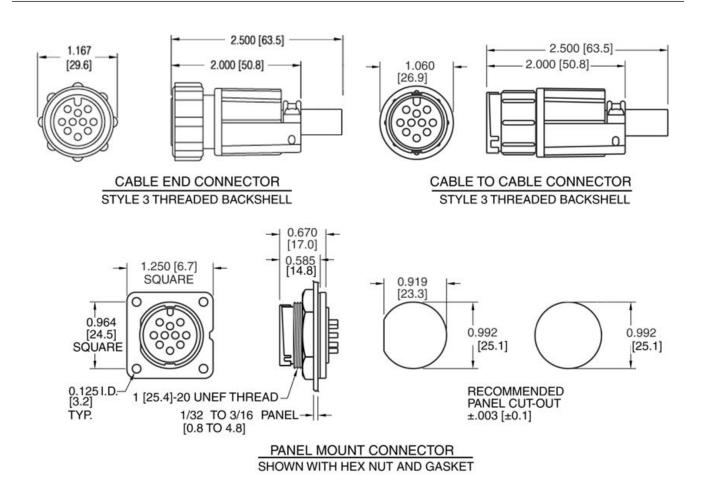
Cable to Cable



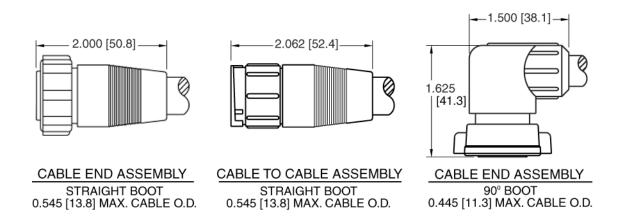
Right Angle

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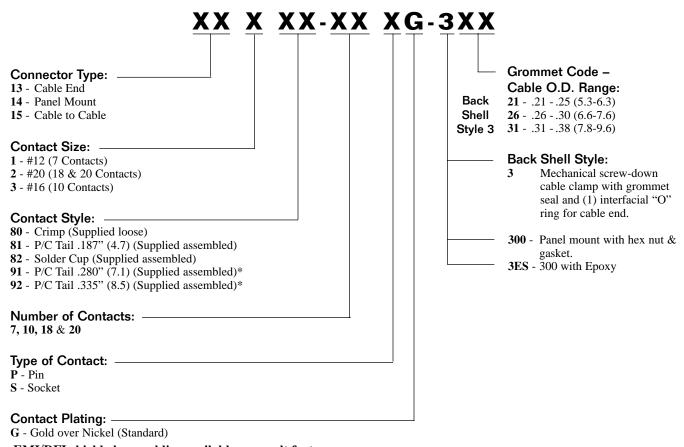
Dimensions (Dimensions in brackets are in millimeters)



Molded Cable Assemblies (See pages 3 & 26)



Part Number to Order



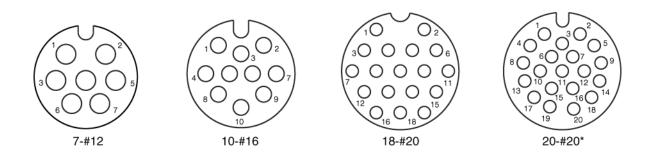
EMI/RFI shielded assemblies available - consult factory.

*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 styles only.

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Specifications

Typical Specifications

Manufacturers Identifications

Description Rating

Conductor Size

Configuration

Certification

G 6 .:

Common

Cable Pin/Socket

Mechanical Backshell (Threaded)

Material Specifications

Strap Screws Grommet Coupling Ring Contacts

Connector Body O-Ring

Optional

Winged Coupling Ring

Cable to Cable

Mechanical Backshell (Threaded)

Grommet Strap Screws

Contacts Connector Body

Panel Mount

Contacts Panel Body

Gasket Hex Nut

Optional

Dust Cap

Maxi-Con-X®

Field Installable Connector & Custom Cable Assemblies

1.35 thru 23.0A, 600V

#12 Contacts, 12 thru 14 AWG #16 Contacts, 16 thru 18 AWG #20 Contacts, 20 thru 24 AWG

7 - #12 Contacts

10 - #16 Contacts 18 - #20 Contacts 20 - #20 Contacts

UL Recognized File #E150822 - 250V CSA Certified File #181200 - 600V

Nylon, UL Recognized, Black Nylon, UL Recognized, Black

Stainless Steel

Santoprene Rubber, Black Nylon, UL Recognized, Black Brass, Gold over Nickel Nylon, UL Recognized, Black Neoprene Rubber, Black

Nylon, UL Recognized, Black (W/14482)

Nylon, UL Recognized, Black Santoprene Rubber, Black Nylon, UL Recognized, Black

Stainless Steel

Brass, Gold over Nickel Nylon, UL Recognized, Black

Brass, Gold over Nickel Nylon, UL Recognized, Black Neoprene Rubber, Black Nylon, UL Recognized, Black

Santoprene Rubber, Black (Part No. 14295)

Gasket, O-Ring, & Grommet materials are suitable for -40°C to +90°C (-40°F to +194°F).

Consult factory for higher temperature requirements.

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 $-40^{\circ}\text{C to} + 115^{\circ}\text{C} (-40^{\circ}\text{F to} + 239^{\circ}\text{F})$ Corrosion 300 Hr salt spray contacts

Weathertight Consult factory with specific application

Molded Cable Assemblies (See Pages 3 & 26)
Watertight NEMA 6P, 13: IEC IP67

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CON-X ELECTRICAL CURRENT RATING CHART FOR CONNECTORS & CABLE ASSEMBLIES

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER of CONDUCTORS	CURRENT RATING
#12	#12	1 through 7	23.0A
	#14	1 through 3	17.0A
		4 through 6	12.75A
		7 through 9	11.0A
	#16	1 through 3	13.0A
		4 through 6	9.75A
		7	8.45A
#16	#16		
		1 through 10	13.0A
		11 and 12	7.5A
	#18		
		1 through 3	10.0A
		4 through 12	7.5A
#20		1 through 3	7.5A
	#18	4 through 20	5.6A
		21 through 31	2.3A
	#20	1 through 3	7.5A
		4 through 20	5.6A
		21 through 31	2.3A

Max. Number and Size of Contacts per Series:

4 - #12 Multi-Con-X

7 - #12 Maxi-Con-X

5 - #16 Mini-Con-X

6 - #16 Multi-Con-X

12 - #16 Maxi-Con-X

3 - #20 Micro-Con-X

8 - #20 Mini-Con-X

9 - #20 Multi-Con-X

20 - #20 Maxi-Con-X

31 - #20 Mega-Con-X