

# MINI-CON-X<sup>®</sup>

0.71" [18MM] OD 2-8 CONTACTS



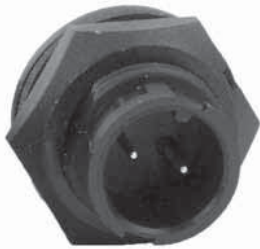
**CABLE END - SOCKET**  
MATES WITH PANEL MOUNT AND  
CABLE TO CABLE



**CABLE END - PIN**  
MATES WITH PANEL MOUNT AND  
CABLE TO CABLE



**CABLE TO CABLE / INLINE - PIN**  
MATES WITH CABLE END



**PANEL MOUNT - PIN**  
MATES WITH CABLE END



**PANEL MOUNT - SOCKET**  
MATES WITH CABLE END



**DUST CAP**  
P/N - 6295



**IP RATED LOCKING CAP**  
P/N - 6295P-W



**MOLDED CABLE END ASSEMBLY**



**MOLDED CABLE TO CABLE ASSEMBLY**



**MOLDED RIGHT ANGLE CABLE ASSEMBLY**

## SPECIFICATIONS

### **Mechanical Specifications**

Life:	300 insertion / withdrawal cycles minimum
Vibration:	Coupling rings have overriding locking feature to prevent loosening or separation of connector
Hex Nut Torque:	10 in-lb max tightening torque.
Coupling Locking Style:	Bayonet with ribbed coupling nut (winged coupling nut available) P/N 6482
Backshell Style:	Removable twist lock
Conductor Size:	#16 contacts accepts 16 through 18 AWG #20 contacts accepts 20 through 24 AWG

### **Electrical Specifications**

Voltage Rating:	600 V AC/DC
Current Rating:	13.0 A – max (See page 107 for Electrical Current Rating Chart)

### **Environmental Specifications**

Operating Temperature Rating:	-40°C to +85°C (-40°F to +185°F)
Salt Atmosphere (Corrosion):	300 Hr salt spray when mated
Weathertight:	IP67 when mated

### **Material Specifications**

Backshell:	Thermoplastic, UL 94HB, Black
Contacts:	Copper Alloy, Gold over Nickel Plate
Coupling Ring:	Thermoplastic, UL 94HB, Black
Gasket:	Elastomer, Black
Grommet / Strain Relief:	Elastomer, Black
Hex Nut:	Thermoplastic, UL 94HB, Black
O-Ring:	Elastomer, Black
Shell:	Thermoplastic, UL 94HB, Black
Optional Dust Cap:	Elastomer, Black

### **Molded Cable Assemblies**

Weathertight:	NEMA 6P, 13: IEC IP67
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### **Certifications**

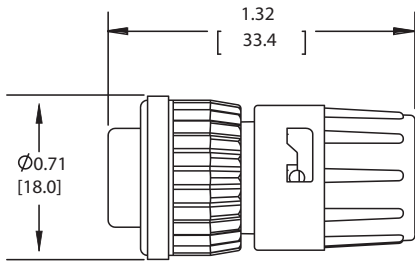
UL File E150822  
CSA File 181200  
Not for current interruption  
RoHS compliant  
REACH compliant

### **Options**

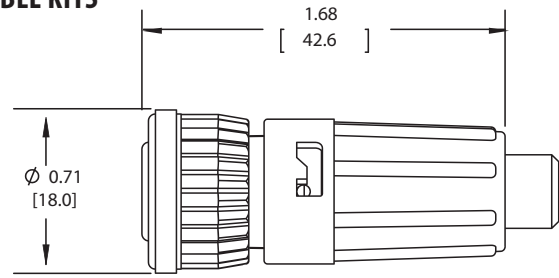
UV Rating:	F1 available
Flame Rating:	UL 94V-0 available

**Consult factory for optional colors and materials**

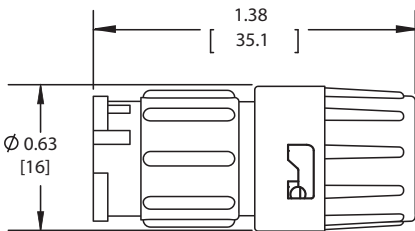
## FIELD INSTALLABLE KITS



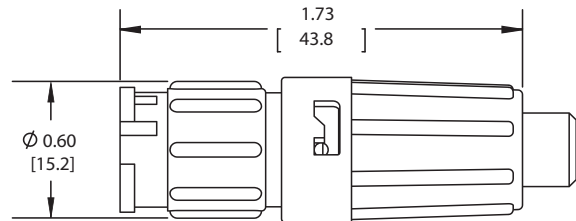
**6XXX-XXG-3XX**  
FIELD INSTALLABLE  
CABLE CONNECTOR  
TWIST LOCK BACKSHELL  
TYPE 3-SHORT



**6XXX-XXG-5XX**  
FIELD INSTALLABLE  
CABLE CONNECTOR  
TWIST LOCK BACKSHELL  
TYPE 5-LONG

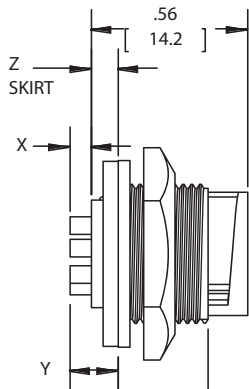


**8XXX-XXG-3XX**  
FIELD INSTALLABLE  
CABLE TO CABLE CONNECTOR  
TWIST LOCK BACKSHELL  
TYPE 3-SHORT

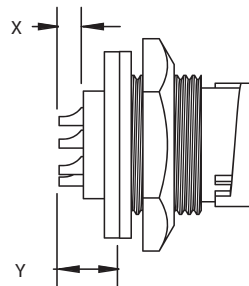


**8XXX-XXG-5XX**  
FIELD INSTALLABLE  
CABLE TO CABLE CONNECTOR  
TWIST LOCK BACKSHELL  
TYPE 5-LONG

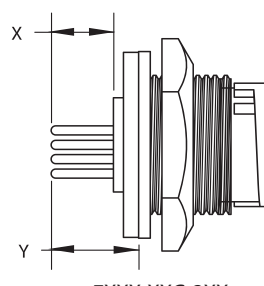
## PANEL MOUNT ASSEMBLY KITS



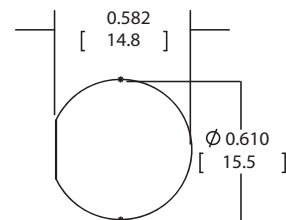
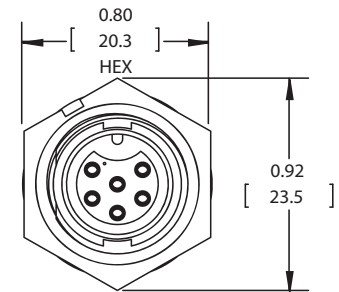
**7X80-XXG-3XX**  
PANEL MOUNT CONNECTOR  
CRIMP



**7X82-XXG-3XX**  
PANEL MOUNT CONNECTOR  
SOLDER CUP



**7XXX-XXG-3XX**  
PANEL MOUNT CONNECTOR  
PC TAIL

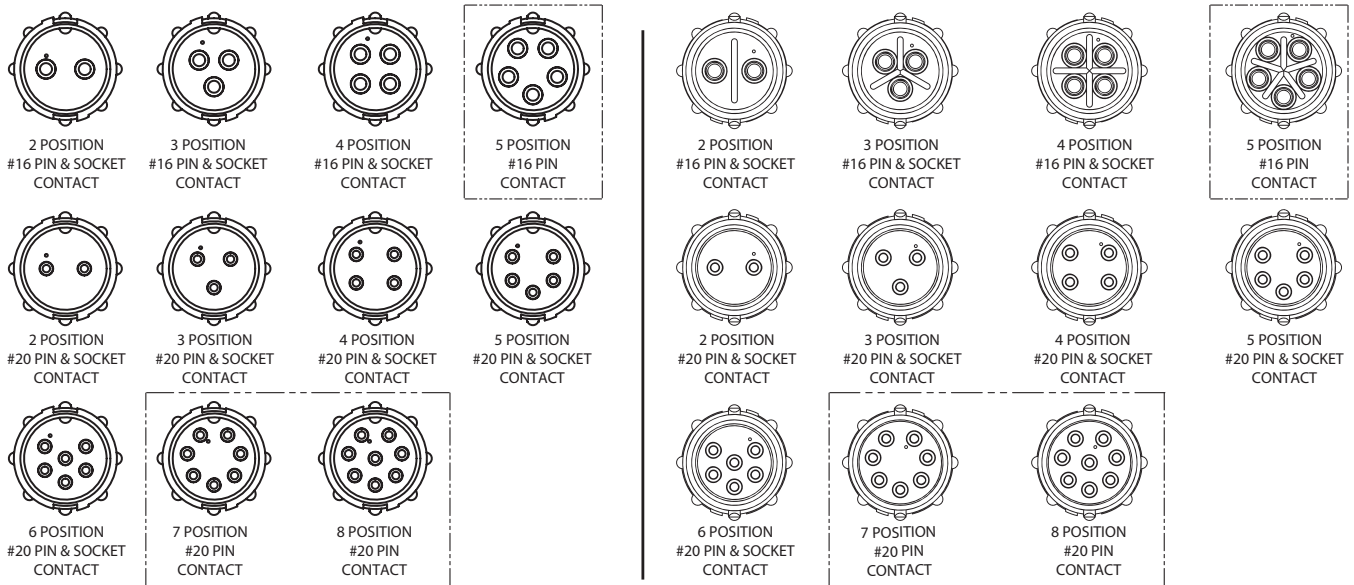


RECOMMENDED  
PANEL CUT-OUT  
TOLERANCE: ±0.003 [0.08]

\*X, Y, Z - Consult Factory. All dimensions are for reference only. Units shown: in[mm].

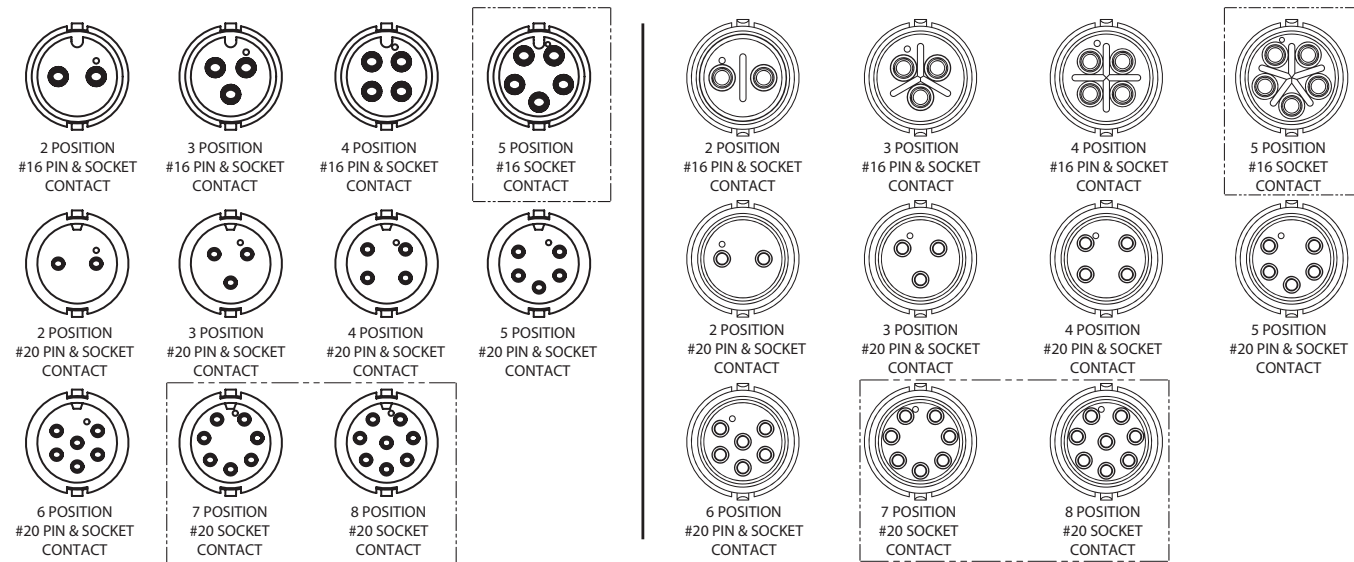
## PANEL MOUNT / CABLE TO CABLE CONNECTORS

Front View | Wire View



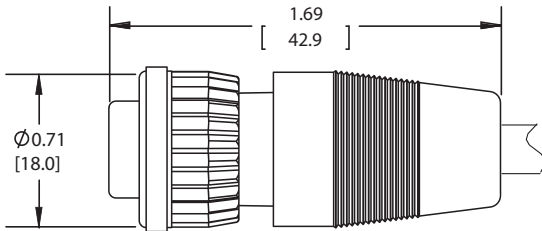
## CABLE CONNECTORS

Front View | Wire View

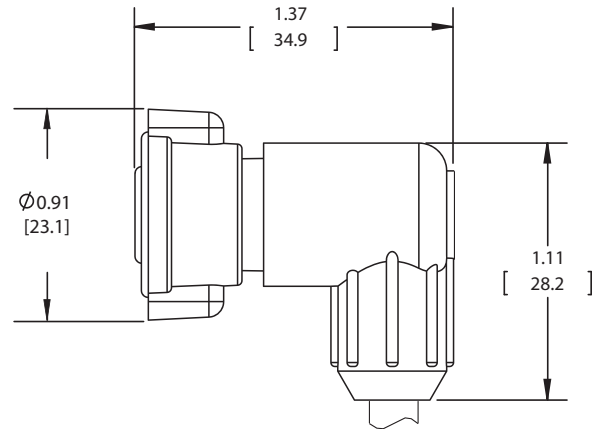


All dimensions are for reference only. Units shown: in[mm].

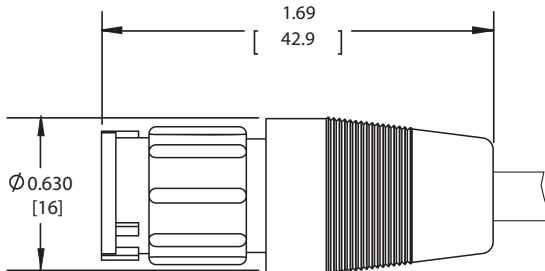
## CUSTOM MOLDED CABLE ASSEMBLIES



6XXX-XXG  
CUSTOM CABLE CONNECTOR  
STRAIGHT OVERMOLDED



6XXX-XXG  
CUSTOM CABLE CONNECTOR  
RIGHT ANGLE OVERMOLDED



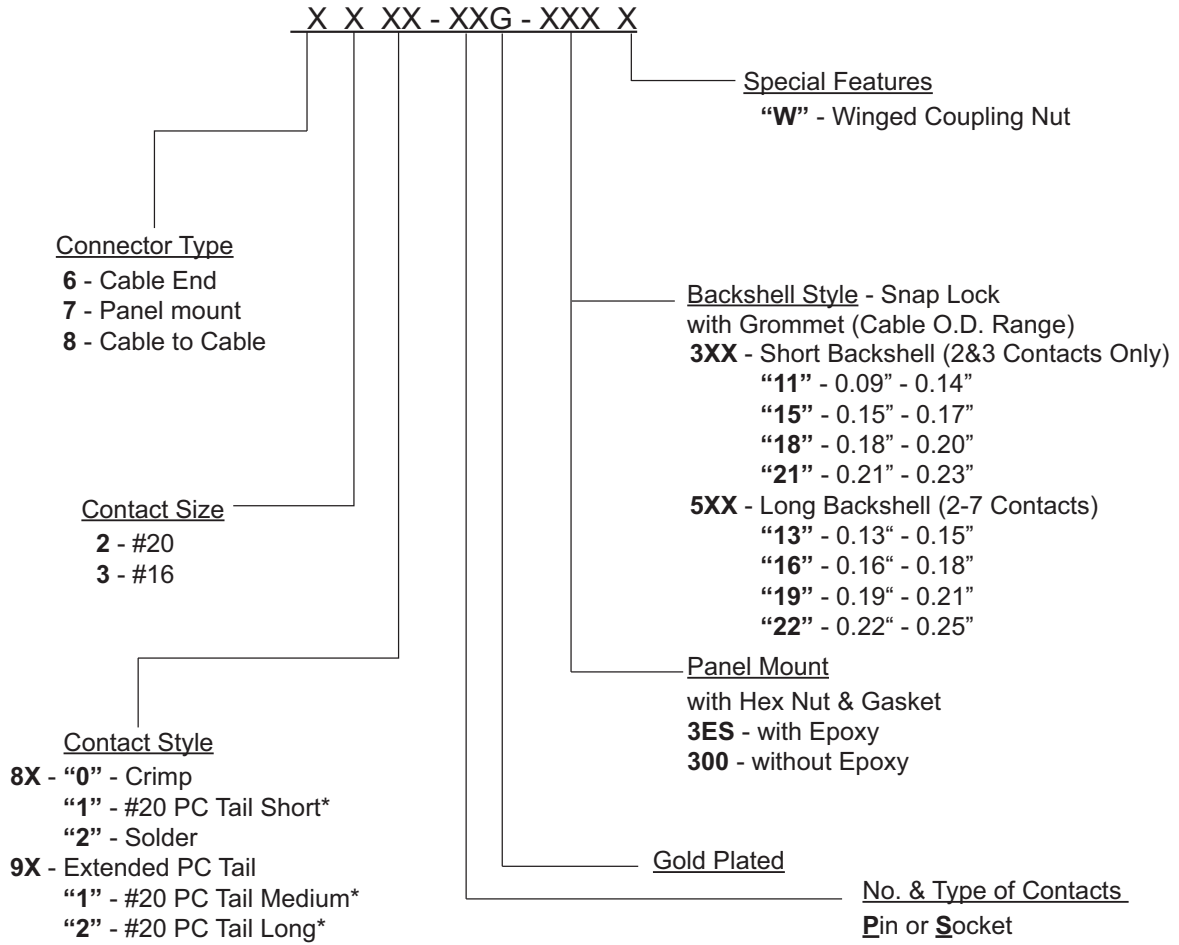
8XXX-XXG  
CUSTOM CABLE TO CABLE CONNECTOR  
STRAIGHT OVERMOLDED

Note: Mini-Con-X<sup>®</sup> can be overmolded onto an extended well panel mount. Straight version only.

- Available in: 2#20, 4#20 and 6#20 female
- Available in: 4#20, 6#20 and 7#20 male

All dimensions are for reference only. Units shown: in[mm].

## PART NUMBER TO ORDER



\*Consult factory for length and diameter of PC Tail. Additionally, alternative colors and materials are available.