

# MEGA-CON-X®

### 1.29"[32<sub>MM</sub>]OD 31 CONTACTS



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



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



PANEL MOUNT - PIN MATES WITH CABLE END



PANEL MOUNT - SOCKET MATES WITH CABLE END



**DUST CAP** P/N - 24295



**MOLDED CABLE END ASSEMBLY** 



MOLDED RIGHT ANGLE CABLE ASSEMBLY

### MEGA-CON-X®

### 1.29"[32MM]OD 31 CONTACTS

#### **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 Style: Bayonet with ribbed coupling nut (winged coupling nut available)

Backshell Style: Threaded

Conductor Size: #20 contacts accepts 20 through 24 AWG

**Electrical Specifications** 

Voltage Rating: 600V AC

Current Rating: 2.3 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

Certifications

UL File E150822 CSA File 181200

Not for current interruption

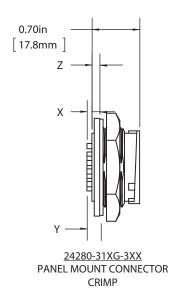
RoHS compliant REACH compliant

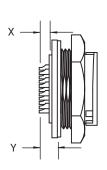
**Options** 

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

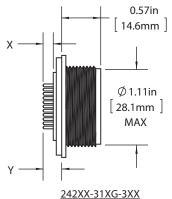
Consult factory for optional colors and materials

#### PANEL MOUNT ASSEMBLY KITS



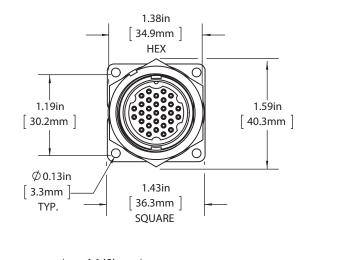


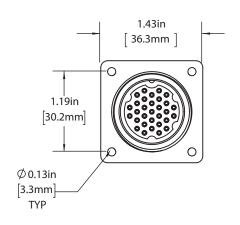
24282-31XG-3XX PANEL MOUNT CONNECTOR SOLDER CUP

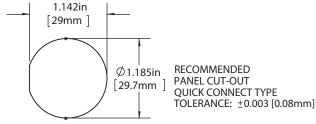


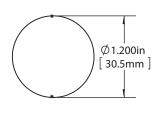
242XX-31XG-3XX PANEL MOUNT CONNECTOR PC TAIL

\*X, Y, Z - CONSULT FACTORY





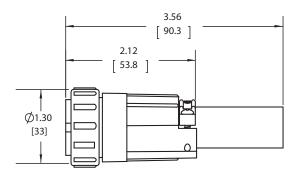




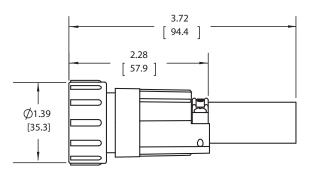
RECOMMENDED PANEL CUT-OUT THREADED TYPE TOLERANCE: ±0.003 [0.08mm]

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

#### FIELD INSTALLABLE KITS



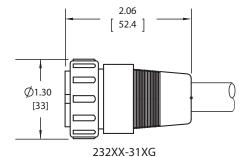
232XX-31XG-3XX
FIELD INSTALLABLE QUICK CONNECT TYPE
CABLE CONNECTOR - BACKSHELL TYPE 3



232XX-31XG-T3XX

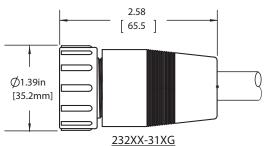
FIELD INSTALLABLE THREADED TYPE
CABLE CONNECTOR - BACKSHELL TYPE 3

#### **CUSTOM MOLDED CABLE ASSEMBLIES**

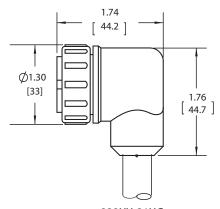


CUSTOM CABLE CONNECTOR STRAIGHT OVERMOLDED

QUICK CONNECT TYPE



CUSTOM CABLE CONNECTOR STRAIGHT OVERMOLDED THREADED CONNECT TYPE

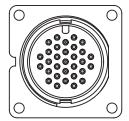


232XX-31XG
CUSTOM CABLE CONNECTOR RIGHT ANGLE OVERMOLDED
QUICK CONNECT TYPE

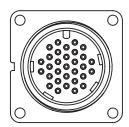
All dimensions are for reference only. Units shown: in[mm].

#### PANEL MOUNT CONNECTORS

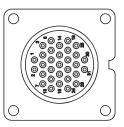
Front View | Wire View



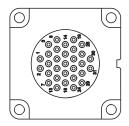
QUICK CONNECT TYPE SINGLE KEY 31-POSITION #20 PIN CONTACT



THREADED TYPE 5 KEY 31-POSITION #20 PIN CONTACT



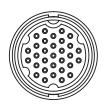
QUICK CONNECT TYPE SINGLE KEY 31-POSITION #20 PIN CONTACT



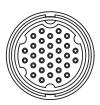
THREADED TYPE 5 KEY 31-POSITION #20 PIN CONTACT

#### **CABLE CONNECTORS**

Front View | Wire View



QUICK CONNECT TYPE 5 KEY 31-POSITION #20 PIN CONTACT



THREADED TYPE 5 KEY 31-POSITION #20 PIN CONTACT



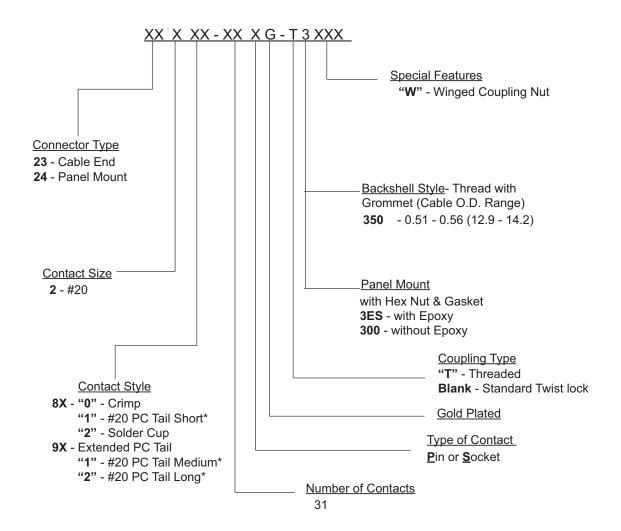
QUICK CONNECT TYPE 5 KEY 31-POSITION #20 PIN CONTACT



THREADED TYPE 5 KEY 31-POSITION #20 PIN CONTACT

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

#### PART NUMBER TO ORDER



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

## **CON-X® ELECTRICAL CURRENT RATING CHART**

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
	#12	1 through 7	23.0A
#1 <b>2</b>		1 through 3	17.0A
	#14	4 through 6	12.75A
#12		7 through 9	11.0A
		1 through 3	13.0A
	#16	4 through 6	9.75A
		7	8.45A
	#16	1 through 10	13.0A
		11 and 12	7.5A
#16	#18	1 through 3	10.0A
		4 through 12	7.5A
		1 through 3	7.5A
	#18	4 through 20	5.6A
		21 through 31	2.3A
		1 through 3	7.5A
	#20	4 through 20	5.6A
		21 through 31	2.3A
#20	#20 Multi-Con-X	10 through 12	5.0A
	#22	1 through 3	6.0A
		4 through 20	2.5A
		21 through 31	2.5A
	#24	1 through 3	4.5A
		4 through 20	2.0A
		21 through 31	1.5A
#22	#22	4	5.5A
	#24	4	5.0A
	#24	5 to 6	4.0A
	#24	7	3.5A
#26	#26	5 to 6	2.5A
	#26	7	2.5A
	#28*	5 to 6	2.0A
	#28*	7	2.0A

\*Not UL tested for this wire conductor size

#### MAX. NUMBER AND SIZE OF CONTACTS PER SERIES:

4 - #12 Multi-Con-X 6 - #16 Multi-Con-X 8 - #20 Mini-Con-X 31 - #20 Mega-Con-X 7 - #12 Maxi-Con-X 12 - #16 Maxi-Con-X 9 - #20 Multi-Con-X 4 - #22 Micro-Con-X 5 - #16 Mini-Con-X 3 - #20 Micro-Con-X 20 - #20 Maxi-Con-X 7 - #26 Micro-Con-X

## **TOOLING**

#### **CON-X® MANUAL CONTACT CRIMPING TOOL**

Handle	Description	Positioner	Contact Sizes	Wire Sizes	Conductor Strip Length
	Multi Contact Turret Crimp Tool	357-124	#12	12-14 AWG	7/32 in
359-24			#16	16-18-20 AWG	7/32 in
			#20	20-22-24 AWG	3/16 in
Single Contact Crimp Tool		357-122	#20	20-22-24 AWG	3/16 in
		357-125	#22	22-24 AWG	5/32 in
		357-126	#26(Cable Pin Only)	24-26-28 AWG	3/16 in
		357-127	#26(Panel Pin, Cable & Panel Socket)	24-26-28 AWG	3/16 in

#### **CON-X® MANUAL CONTACT INSERTION TOOL**

Handle	Description	Insertion Bits	Contact Sizes
356-1	Single Contact Hand Tool	356-12	#12
		356-16	#16
		356-20	#20
		356-22	#22 (20 AWG Crimp Barrel)
		356-22-1-K	#22 (22 AWG Crimp Barrel)
		356-26-K	#26

#### MIL-E-QUAL® MANUAL CONTACT CRIMPING TOOL

Handle	Description	Positioner	Contact Sizes	Wire Sizes	Conductor Strip Length
	Hand Crimp Tool		#12	12-14 AWG	7/32 in
359-24		358-112	#16	16-18-20 AWG	9/32 in

#### **MIL-E-QUAL® MANUAL CONTACT INSERTION TOOL**

Handle	Description	Insertion Bits	Contact Sizes
356-1	Single Contact Hand Tool	356-12	#12
		356-16	#16