

MINI-CON-X[®]
INSTA-CLICK[®]
SEALED CONNECTORS



Switchcraft[®]
CONXALL[®]

HARSH ENVIRONMENT CONNECTIVITY SOLUTIONS

Hundreds of configurations available up to 10 pins with a variety of options

Insta-Click™ spring loaded latching mechanism locks automatically



Available as field installable connectors or factory molded cable assemblies

Easy disconnect with a quarter turn of the coupling ring

Insta-Click® connectors mate with special Insta-Click™ panel mount connectors

NEW PRODUCT

The Mini-Con-X® from Conxall® has set the standard for harsh environment connectors, and the new Insta-Click® product line adds several key improvements for even harsher environment. An all-new latching mechanism provides an automatic positive lock while improving the water resistance rating to IP68 (when used as part of a molded cable assembly). A high quality new plastic offers UV resistance.

IP68
RATED WATER
RESISTANCE

The Con-X® Insta-Click® series is sealed to IP68 for harsh environments when used with a molded cable assembly.

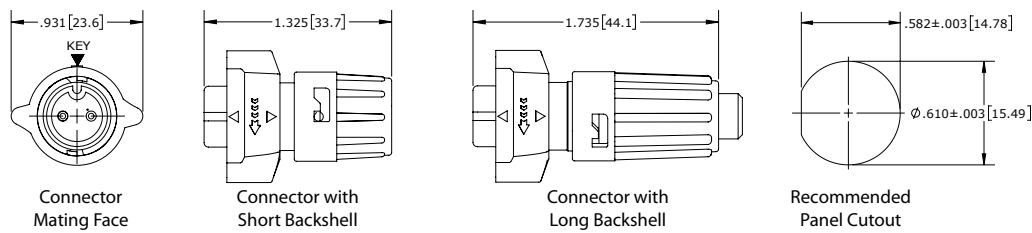
UL F1
RATED UV
RESISTANCE

A special high-PBT material provides excellent UV resistance for outdoor use and lighting applications

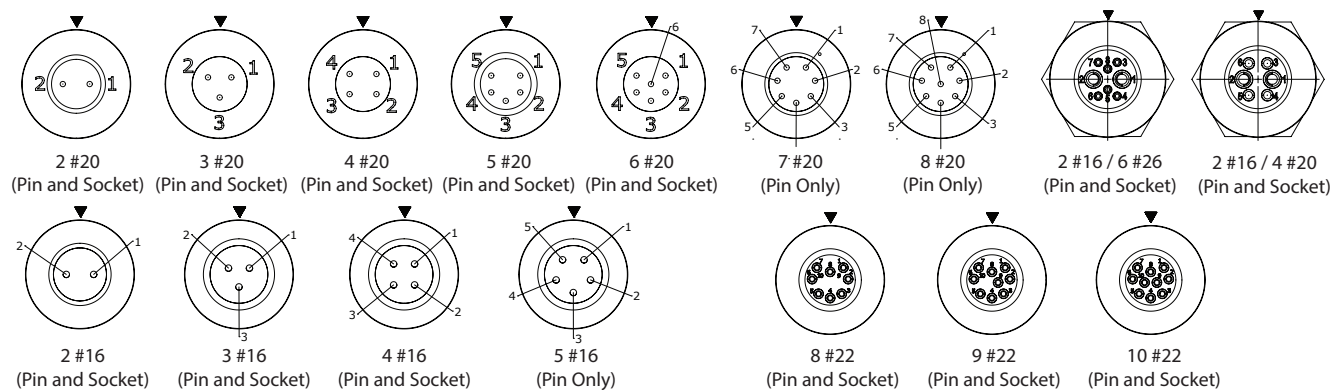

CONXALL
QUALITY

Made in USA to the high standards that have made Conxall the leading name in harsh environment connectors.

OVERALL DIMENSIONS



CONTACT LAYOUTS (REAR/WIRING SIDE OF PANEL SHOWN)



ORDERING CODE

W X X XX - X X G - P - XXX									
Connector Type			Backshell / Cable OD						
6 - Cable End Plug			3XX - Short Backshell: in [mm]						
7 - Panel Mount			11 - 0.09 to 0.14 [2.3 to 3.6]						
8 - Cable to Cable			15 - 0.15 to 0.17 [3.8 to 4.3]						
Contact Size			18 - 0.18 to 0.20 [4.6 to 5.1]						
2 - #20 (2 thru 8)			21 - 0.21 to 0.23 [5.3 to 5.8]						
3 - #16 (2 thru 5)			3DC - 3 Grommet Sizes						
8 - #22 (8 thru 10)			5XX - Long Backshell: in [mm]						
A - 2 #16 / 6 #26			13 - 0.13 to 0.15 [3.3 to 3.8]						
C - 2 #16 / 4 #20			16 - 0.16 to 0.18 [4.1 to 4.6]						
Contact Style			19 - 0.19 to 0.21 [4.8 to 5.3]						
80 - Crimp			22 - 0.22 to 0.25 [5.6 to 6.3]						
81 - #20 PC Tail (Short)			26 - 0.25 to 0.27 [6.3 to 6.8]						
82 - Solder			28 - 0.26 to 0.29 [6.6 to 7.2]						
83 - #22 PC Tail (Short)			300 - Panel Mount						
91 - #20 PC Tail (Medium)			3ES - Panel Mount w/ Epoxy						
92 - #20 PC Tail (Long)			Contact Type						
# of Contacts			P - Pin						
			S - Socket						

SPECIFICATIONS

MECHANICAL:

Mating / Locking Type:	Spring activated positive lock
Life:	300 insertion/ withdrawal cycles minimum
Operating Forces:	13lb [6kg] insertion/ 9lb [4g] withdrawal max
Vibration:	Mil-Std 202G method 201A
Panel Hex Nut Torque:	10 in-lb [1.1 Nm] maximum
Cable Securing System:	Removable twist-lock backshell

ELECTRICAL:

Voltage Rating:	300 V AC/DC
Current Rating:	13A max for # 16 contacts 7.5A max for #20 contacts 3.0A max for #22 contacts Refer to website for detailed information
Insulation Resistance:	100 MΩ minimum
Contact Resistance:	20 mΩ maximum

ENVIRONMENTAL:

Temperature Limits:	-40°C to +85°C (-40°F to +185°F)
Operating Temperature:	Refer to website for detailed information
Moisture Resistance:	Mil-Std 202G method 106G
Insulation Resistance:	Mil-Std 202G method 302 condition B
Thermal Shock:	Mil-Std 202G method 107G
Salt Atmosphere :	Mil-Std 202G method 101E condition B
Ingress Protection :	IP66, IP67, IP68 per IEC60529 (Molded cable assemblies , consult factory)

MATERIAL:

Outer Shell:	Thermoplastic
Hex Nut:	Thermoplastic
Grommet/ Strain Relief:	Elastomer, black
Gasket:	Elastomer, black
Seal O-rings:	Silicone, red
Contacts:	Copper Alloy, gold plated

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Switchcraft:

[W8280-2PG-P-311](#) [W8280-2PG-P-315](#) [W8280-2PG-P-318](#) [W8280-2PG-P-321](#) [W8280-2PG-P-3DC](#) [W8280-2PG-P-513](#) [W8280-2PG-P-516](#) [W8280-2PG-P-519](#) [W8280-2PG-P-522](#) [W8280-2PG-P-526](#) [W8280-2PG-P-528](#) [W8280-2SG-P-311](#) [W8280-2SG-P-315](#) [W8280-2SG-P-318](#) [W8280-2SG-P-321](#) [W8280-2SG-P-3DC](#) [W8280-2SG-P-513](#) [W8280-2SG-P-516](#) [W8280-2SG-P-519](#) [W8280-2SG-P-522](#) [W8280-2SG-P-526](#) [W8280-2SG-P-528](#) [W8280-3PG-P-311](#) [W8280-3PG-P-315](#) [W8280-3PG-P-318](#) [W8280-3PG-P-321](#) [W8280-3PG-P-3DC](#) [W8280-3PG-P-513](#) [W8280-3PG-P-516](#) [W8280-3PG-P-519](#) [W8280-3PG-P-522](#) [W8280-3PG-P-526](#) [W8280-3PG-P-528](#) [W8280-3SG-P-311](#) [W8280-3SG-P-315](#) [W8280-3SG-P-318](#) [W8280-3SG-P-321](#) [W8280-3SG-P-3DC](#) [W8280-3SG-P-513](#) [W8280-3SG-P-516](#) [W8280-3SG-P-519](#) [W8280-3SG-P-522](#) [W8280-3SG-P-526](#) [W8280-3SG-P-528](#) [W8280-4PG-P-311](#) [W8280-4PG-P-315](#) [W8280-4PG-P-318](#) [W8280-4PG-P-321](#) [W8280-4PG-P-3DC](#) [W8280-4PG-P-513](#) [W8280-4PG-P-516](#) [W8280-4PG-P-519](#) [W8280-4PG-P-522](#) [W8280-4PG-P-526](#) [W8280-4PG-P-528](#) [W8280-4SG-P-311](#) [W8280-4SG-P-315](#) [W8280-4SG-P-318](#) [W8280-4SG-P-321](#) [W8280-4SG-P-3DC](#) [W8280-4SG-P-513](#) [W8280-4SG-P-516](#) [W8280-4SG-P-519](#) [W8280-4SG-P-522](#) [W8280-4SG-P-526](#) [W8280-4SG-P-528](#) [W8280-5PG-P-311](#) [W8280-5PG-P-315](#) [W8280-5PG-P-318](#) [W8280-5PG-P-321](#) [W8280-5PG-P-3DC](#) [W8280-5PG-P-513](#) [W8280-5PG-P-516](#) [W8280-5PG-P-519](#) [W8280-5PG-P-522](#) [W8280-5PG-P-526](#) [W8280-5PG-P-528](#) [W8280-5SG-P-311](#) [W8280-5SG-P-315](#) [W8280-5SG-P-318](#) [W8280-5SG-P-321](#) [W8280-5SG-P-3DC](#) [W8280-5SG-P-513](#) [W8280-5SG-P-516](#) [W8280-5SG-P-519](#) [W8280-5SG-P-522](#) [W8280-5SG-P-526](#) [W8280-5SG-P-528](#) [W8280-6PG-P-311](#) [W8280-6PG-P-315](#) [W8280-6PG-P-318](#) [W8280-6PG-P-321](#) [W8280-6PG-P-3DC](#) [W8280-6PG-P-513](#) [W8280-6PG-P-516](#) [W8280-6PG-P-519](#) [W8280-6PG-P-522](#) [W8280-6PG-P-526](#) [W8280-6PG-P-528](#) [W8280-6SG-P-311](#)