NEW PRODUCT BULLETIN 665

MINI-CON-X®
INSTA-CLICK™
SEALED CONNECTORS



MADE IN THE U.S.A.

Switchcraft®
CONXALL®

HARSH ENVIRONMENT CONNECTIVITY SOLUTIONS

601 EAST WILDWOOD, VILLA PARK, IL 60181 | PHONE: 630-834-7504 | SALES@CONXALL.COM

Mini-Con-X Insta-Click™ Sealed Connectors

NPB 665

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

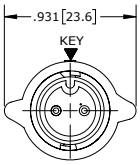
A special high-PBT material provides excellent UV resistance for outdoor use and lighting applications

MADE IN THE USA CONXALL QUALITY

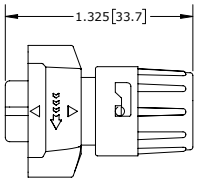
Made in USA to the high standards that have made Conxall the leading name in harsh environment connectors.

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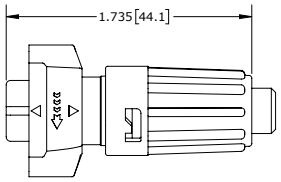
OVERALL DIMENSIONS



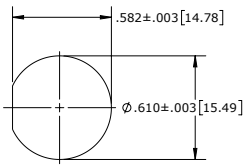
Connector Mating Face



Connector with Short Backshell

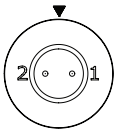


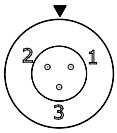
Connector with Long Backshell

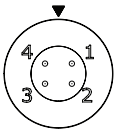


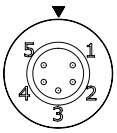
Recommended Panel Cutout

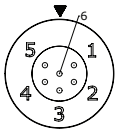
CONTACT LAYOUTS (REAR/WRING SIDE OF PANEL SHOWN)

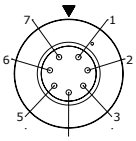

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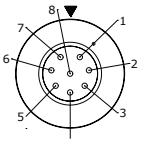

3 #20 (Pin and Socket)

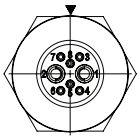

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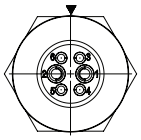

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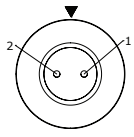

6 #20 (Pin and Socket)

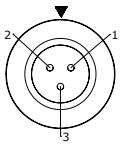

7 #20 (Pin Only)

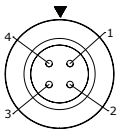

8 #20 (Pin Only)

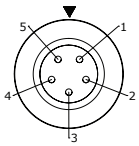

2 #16 / 4 #20 (Pin and Socket)

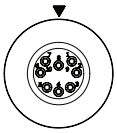

2 #16 / 4 #26 (Pin and Socket)

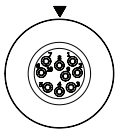

2 #16 (Pin and Socket)

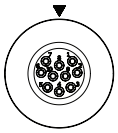

3 #16 (Pin and Socket)


4 #16 (Pin and Socket)


5 #16 (Pin Only)


8 #22 (Pin and Socket)


9 #22 (Pin and Socket)


10 #22 (Pin and Socket)

ORDERING CODE

W X X XX - X X G - P - XXX

Connector Type
- **6** - Cable End Plug
- **7** - Panel Mount
- **8** - Cable to Cable

Contact Size
- **2** - #16 (2 thru 5)
- **3** - #20 (2 thru 8)
- **8** - #22 (8 thru 10)
- **A** - 2x #16 / 4x #20
- **C** - 2x #16 / 6x #26

Contact Style
- **80** - Crimp
- **81** - #20 PC Tail (Short)
- **82** - Solder
- **83** - #22 PC Tail (Short)
- **91** - #20 PC Tail (Medium)
- **92** - #20 PC Tail (Long)

# of Contacts

Backshell / Cable OD
- **3XX - Short Backshell: in [mm]**
- **11** - 0.09 to 0.14 [2.3 to 3.6]
- **15** - 0.15 to 0.17 [3.8 to 4.3]
- **18** - 0.18 to 0.20 [4.6 to 5.1]
- **21** - 0.21 to 0.23 [5.3 to 5.8]
- **3DC - 3 Grommet Sizes**
- **5XX - Long Backshell: in [mm]**
- **13** - 0.13 to 0.15 [3.3 to 3.8]
- **16** - 0.16 to 0.18 [4.1 to 4.6]
- **19** - 0.19 to 0.21 [4.8 to 5.3]
- **22** - 0.22 to 0.25 [5.6 to 6.3]
- **26** - 0.25 to 0.27 [6.3 to 6.8]
- **28** - 0.26 to 0.29 [6.6 to 7.2]
- **300** - Panel Mount
- **3ES** - Panel Mount w/ Epoxy

Contact Type
- **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:	-40ºC to +85ºC (-40ºF 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