conxall®
a Switchcraft® co.

Made in USA

HARSH ENVIRONMENT IP66 / IP68 SHIELDED MINI-CON-X® CONNECTOR

Features and Benefits

- Protects circuits from EMI & RF interference
- Rugged machined metal housing and construction
- Field installable
- Scoop-proof connector design
- Same panel cutout as MINI-CON-X®
- Also available overmolded

Mated Cable End

Applications

- Conveyor Equipment
- Machine Tools
- Spot Welders
- Automated Assembly
- Food Processing Equipment
- Packaging & Material Handling Equipment

Product Specifications

Materials
Panel Shell, Cable Housing & Coupling Nuts:
  Nickel plated copper alloy
All Connector Inserts: Engineered Polyester Resin
Contacts: Gold plated copper alloy with nickel underplate
Backshell & Strap: G.F. Nylon
O-Rings: Neoprene   **Grommet:** Santoprene®
Screws: Stainless Steel

Cable End

Mechanical
Shock: Method 213, Mil-Std 202
Vibration: Method 201, Mil-Std 202
Life: 400 insertion/withdrawal cycles

Electrical
Voltage Rating: Tested at 600 VRMS
Insulation Resistance: Method 302, Mil-Std 202
Contact Resistance: Method 307, Mil-Std 202
Current Ratings:
  13A: 1 - 6, #16 contacts with 16 AWG Wire
  7.5A: 1 - 3, #20 contacts with 20 AWG Wire
  5.6A: 4 - 8, #20 contacts with 20 AWG Wire

Environmental
Operating Temperature Limits: -40°C (-40°F) to
  +85°C (+185°F)
Temperature Rise: UL 1054
Thermal Shock: Method 107, Mil-Std 202
Moisture/Salt Spray: Method 106F / 101 Mil-Std 202

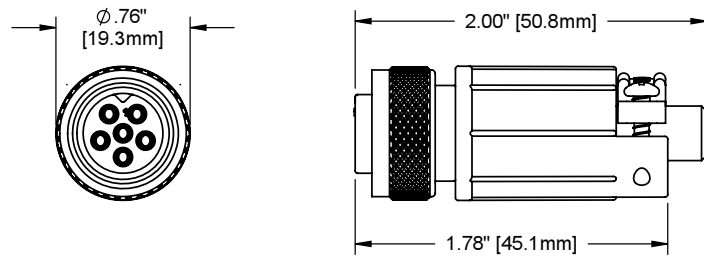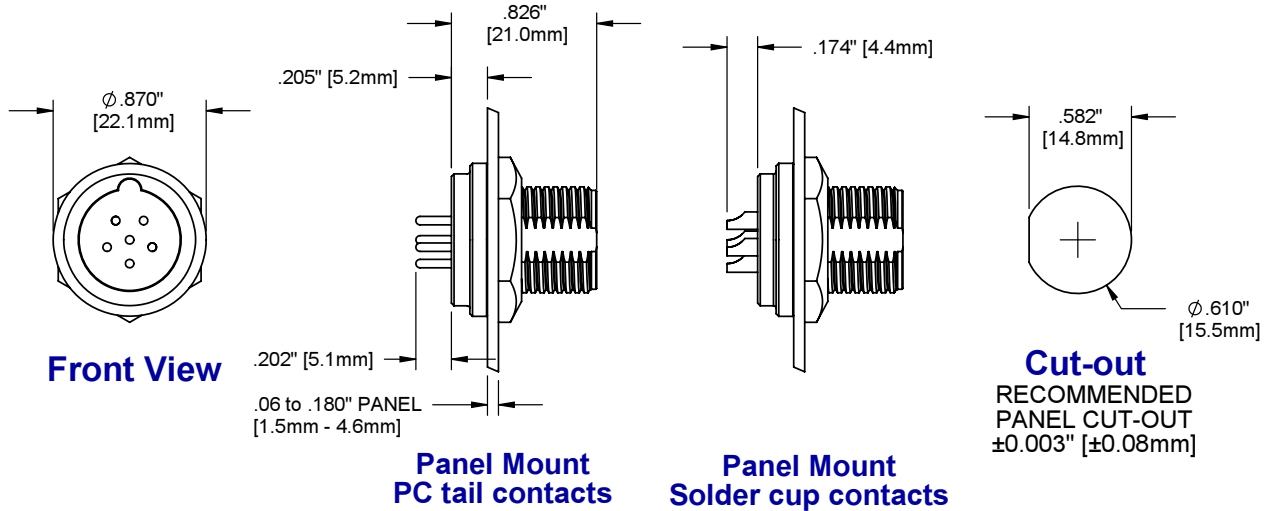**Product Ratings:** IP66 / IP68 (when mated), RoHS Compliant

**Epoxy Sealed
Panel Mount**

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**601 E. Wildwood Avenue - Villa Park, IL 60181
Phone (630) 834-7504 / Fax (630) 834-8540**

HARSH ENVIRONMENT IP66 / IP68 SHIELDED MINI-CON-X® CONNECTOR

Cable End

Ø .76"
[19.3mm]

2.00" [50.8mm]

1.78" [45.1mm]

Panel Mount

Ø .870"
[22.1mm]

Front View

.205" [5.2mm]

.826"
[21.0mm]

.202" [5.1mm]

.06 to .180" PANEL
[1.5mm - 4.6mm]

**Panel Mount
PC tail contacts**

.174" [4.4mm]

**Panel Mount
Solder cup contacts**

.582"
[14.8mm]

Ø .610"
[15.5mm]

Cut-out
RECOMMENDED
PANEL CUT-OUT
±0.003" [±0.08mm]

Contact Arrangements (Wiring View of Cable End)

6-16AWG   5-16AWG   4-16AWG   3-16AWG   2-16AWG

8-20AWG   7-20AWG   6-20AWG   5-20AWG   4-20AWG   3-20AWG   2-20AWG   6-20AWG alternate*   5-20AWG alternate*
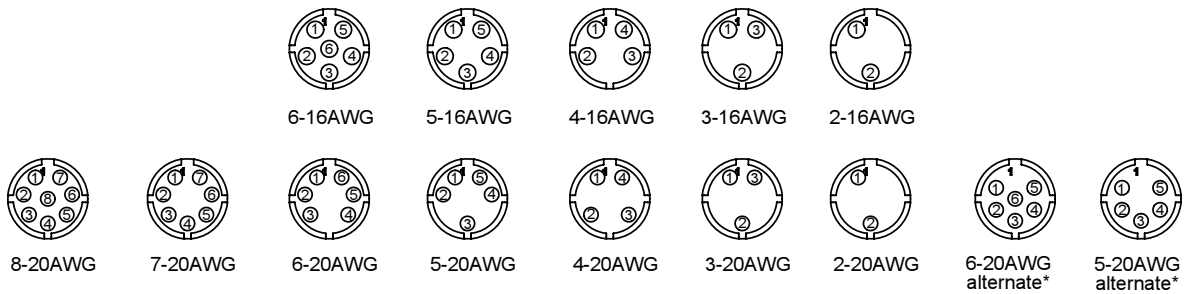
* Consult Factory

Code Logic

SF X X XX - X X G - XXX

Shield Field Installable

Connector Type
6 - Cable End
7 - Panel Mount

Contact Size
2 - 20 AWG
3 - 16 AWG

Contact Style
81 - PC Tail (Panel Only)
82 - Solder Cup

# of Contacts
2 - 8   for 20 AWG
2 - 6   for 16 AWG

Contact Type
P - Pin
S - Socket

Contact Plating
G - Gold

Backshell and Panels
3ES - Panel w/ Epoxy
520 - Backshell w/ .220" Grommet ID
530 - Backshell w/ .330" Grommet ID

Note: Consult Factory for connectors
with alternate 5-20AWG and 6-20AWG
contact arrangements.

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