NEW PRODUCT BULLETIN 678

SHIELDED MINI-CON-X® SEALED CONNECTORS





NPB 678

Special shielding tape offers effective EMI shielding Thousands of configurations available up to 18 contacts Available as field installable connectors or factory molded cable assemblies Thousands of configurations available up to 18 contacts An machined metal panel connector and coupling ring provides enhanced

NEW Product

The Shielded Mini-Con-X® from Conxall® takes the industry standard design of the Mini-Con-X® and adds a metal housing for shielding and enhanced durability. This expansion adds a field-installable cable-mount receptacle for every pin configuration, opening up a host of new applications. Custom, factory overmolded cable assemblies are also available from Conxall.



The Shielded Mini-Con-X® series is sealed to IP68 when mated for harsh environment durability



A copper alloy housing with non-magnetic EN plating and the included conducting tape provide effective shielding



durability and EMI shielding

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

CONTACT LAYOUTS (REAR/WIRING SIDE OF PANEL SHOWN)



2 POSITION #16 PIN & SOCKET CONTACT



6 POSITION

#20 PIN & SOCKET

CONTACT

010 ര ര 0 0

3 POSITION

#16 PIN & SOCKET

CONTACT

7 POSITION

#20 PIN & SOCKET

CONTACT

CONTACT



4 POSITION

#16 PIN & SOCKET

CONTACT

8 POSITION #20 PIN & SOCKET CONTACT



16 POSITION #26 PIN & SOCKET



18 POSITION

5 POSITION

#16 PIN & SOCKET

CONTACT

9 POSITION

#26 PIN & SOCKET

CONTACT

#26 PIN & SOCKET CONTACT



#16 PIN & SOCKET CONTACT



10 POSITION #26 PIN & SOCKET CONTACT



2 POSITION

#20 PIN & SOCKET

CONTACT

12 POSITION #26 PIN & SOCKET CONTACT



#20 PIN & SOCKET

CONTACT

CONTACT

4 POSITION



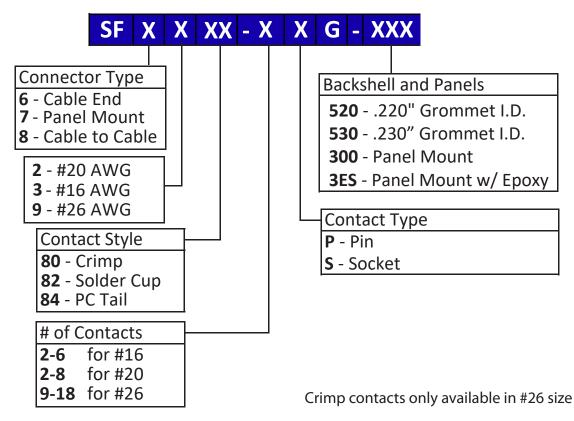
#20 PIN & SOCKET #20 PIN & SOCKET CONTACT CONTACT



13 POSITION #26 PIN & SOCKET CONTACT

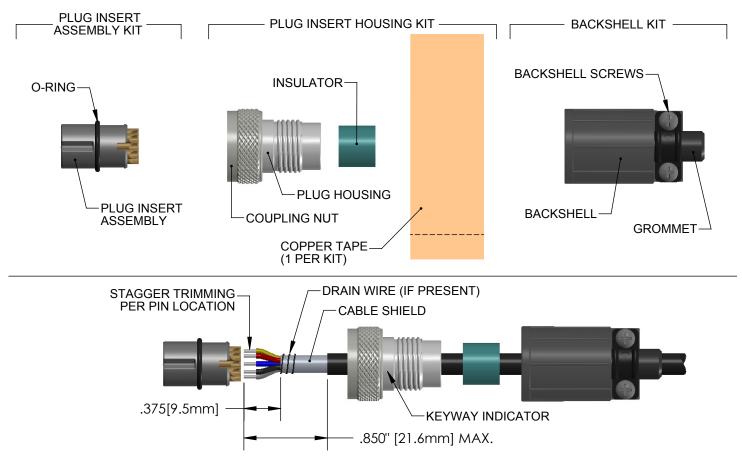
14 POSITION #26 PIN & SOCKET CONTACT

ORDERING CODE



NPB 678

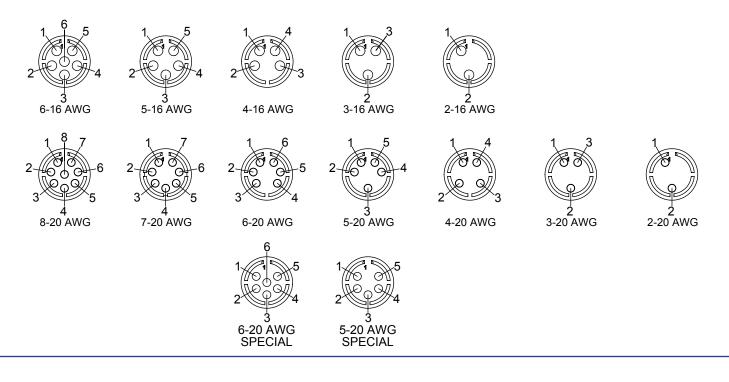
15 POSITION #26 PIN & SOCKET CONTACT



STEP 1: SLIDE BACKSHELL, PLUG HOUSING, AND INSULATOR ONTO CABLE IN THE ORDER SHOWN.

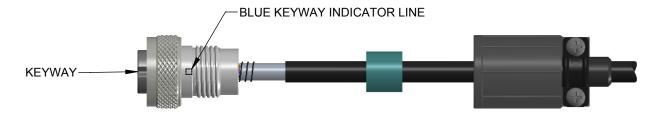
STEP 2: STRIP CABLE JACKET AND WIRES TO LENGTH. EXCESS CABLE SHIELD MUST BE TRIMMED OR WRAPPED AROUND WIRES. IF PRESENT, USE THE DRAIN WIRE TO WRAP THE CABLE SHIELD IN PLACE.

STEP 3: SOLDER WIRES IN CONTACTS ACCORDING TO YOUR SPECIFICATIONS AND PER PIN ARRANGEMENTS BELOW.

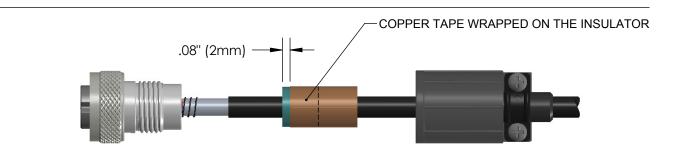


601 EAST WILDWOOD AVE, VILLA PARK, IL 60181 - 630.834.7504 - SALES@CONXALL.COM





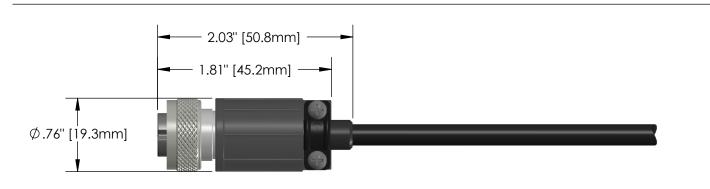
STEP 4: ALIGN MAIN KEYWAY OF PLUG INSERT WITH THE BLUE KEYWAY INDICATOR LINE AND PRESS PLUG INSERT INTO PLUG HOUSING UNTIL IT SNAPS IN PLACE. MAKE CERTAIN THAT THE O-RING (LOCATED ON THE PLUG INSERT ASSEMBLY) IS IN PLACE.



STEP 5: PEEL-OFF THE BACKING OF ONE PIECE OF COPPER TAPE, WRAP THE TAPE AROUND THE INSULATOR AS SHOWN.



STEP 6: SLIDE INSULATOR WITH THE COPPER TAPE INTO THE BACK OF THE PLUG HOUSING. FORM FREE END OF COPPER TAPE TIGHTLY ONTO THE SHIELD OF THE CABLE. MAKE CERTAIN NEITHER THE COPPER TAPE NOR THE CABLE SHIELDING TOUCH ANY OF THE TERMINALS.



STEP 7: SLIDE THE BACKSHELL ASSEMBLY UP AGAINST THE PLUG INSERT ASSEMBLY. HOLD THE PLUG INSERT HOUSING AND THREAD THE BACKSHELL ONTO IT. TIGHTEN FIRMLY BY APPLYING 4 - 5 LB-IN [0.45 - 0.56 N-m] TIGHTENING TORQUE.

STEP 8: TIGHTEN THE TWO BACKSHELL SCREWS TO SECURE THE CABLE IN THE BACKSHELL.

SPECIFICATIONS

MECHANICAL: Life: Vibration: Hex Nut Torque: Coupling Locking Style: Backshell Style:	400 insertion/ withdrawal cycles minimum Mil-Std 202G method 201A 10-12 in-lb max tightening torque Threaded Coupling Ring Threaded
ELECTRICAL: Voltage Rating: Current Rating: Conductor Size:	600 V AC/DC 13.A - max (See page 107 for Electrical Current Rating Chart) 2 through 6 #16 contacts accepts 16 AWG 2 through 8 #20 contacts accepts 20 AWG 9 through 18 #26 contacts accepts 26 AWG
ENVIRONMENTAL: Temperature Limits: Operating Temperature: Moisture Resistance: Insulation Resistance: Thermal Shock: Salt Atmosphere : Ingress Protection :	-40°C to +85°C (-40°F to +185°F) Refer to website for detailed information Mil-Std 202G method 106G Mil-Std 202G method 302 condition B Mil-Std 202G method 107G Mil-Std 202G method 106F condition B IP66, IP67, IP68 per IEC60529 (Molded cable assemblies , consult factory)
MATERIAL: Backshell & Strap: Inserts: Coupling Ring: Cable Housing Grommet/ Strain Relief: O-Ring: Contacts: Screws:	Thermoplastic Thermoplastic Nickel Plated Copper Alloy Nickel Plated Copper Alloy Elastomer, black Elastomer, black Copper Alloy, gold plated Stainless Steel