TABLE OF CONTENTS

2	ABOUT US
3	CUSTOM PRODUCTS
CIRCULAR CONNECTORS & CABLE ASSEMBLIES	
6	EN2 0.53"[13mm] OD - 2-7 CONTACTS
10	MICRO-CON-X [®] 0.53"[13mm] OD - 2-7 CONTACTS
16	EN3 [®] 0.71"[18 _{MM}] OD - 2-18 CONTACTS
34	MINI-CON-X [®] 0.71"[18mm] OD - 2-8 CONTACTS
40	SHIELDED MINI-CON-X® 0.76"[19mm] OD - 2-8 CONTACTS
46	MULTI-CON-X® 0.875"[22mm] OD - 2-9 CONTACTS
52	SHIELDED MULTI-CON-X® 0.995"[25mm] OD - 2-12 CONTACTS
58	MAXI-CON-X® 1.17"[29мм] OD - 7, 10, 18 & 20 CONTACTS
64	MEGA-CON-X® 1.29"[32mm] OD - 31 CONTACTS
70	MIL-E-QUAL [®] 2-37 CONTACTS
76	SEALED DC POWER JACKS & PLUGS
82	HIGH AMPERAGE DC POWER JACKS & PLUGS
90	DATA-CON-X®: RJ45 WEATHERTIGHT CONNECTORS
94	DATA-CON-X®: USB A & B WEATHERTIGHT CONNECTORS
98	DATA-CON-X®: SEALED MINI USB CONNECTORS
102	DATA-CON-X [®] : SEALED D-SUB
106	MOLDED CABLE ASSEMBLY CHECKLIST
107	CON-X [®] Electrical current rating chart
108	MIL-E-QUAL [®] Electrical current rating chart
109	EN2 & EN3® ELECTRICAL CURRENT RATING CHART
110	TOOLING
112	NOTES

ABOUT US





Switchcraft, Inc. was established in 1946 to manufacture jacks, plugs and switches, mainly for the communications industry. The original plant was located on West Diversey Street in Chicago. The company moved to a larger facility at 1328 North Halsted Street in 1948 and in 1958, the operation moved to a 185,000 square foot facility located at 5555 North Elston Avenue, which is still the headquarters and the largest of three manufacturing locations for the corporation today.

In 1977, Switchcraft was bought by the Raytheon Corporation and it operated as an independent subsidiary in its Commercial division for twenty years. During this time, Switchcraft expanded its production capability to include vertical integration, for cost effective manufacturing in the United States. They also expanded into harsh environment connector products, which expanded the market growth of the company.

In 1997 Raytheon made a strategic decision to focus solely on the defense industry. As a result, they divested their interests in all of their commercial holdings. At that time Switchcraft was sold to company management and a private equity firm.

In 1999, Switchcraft acquired Conxall, a manufacturer of circular connectors and cable assemblies, in order to expand their offering of harsh environment connectivity products. They are located in a 32,000 square foot facility in Villa Park, IL. This strategic acquisition helped to position Switchcraft for expanded growth in the Industrial Marketplace.

In 2011, Switchcraft was acquired by HEICO Corporation and became part of their Electronic Technologies Group.

Switchcraft is a major supplier of harsh environment connectivity products to the Industrial market and the premier connectivity provider to the Pro-Audio & Broadcast Industries.

CUSTOM PRODUCTS

Can't find exactly what you are looking for in our standard product offering? Contact us to start creating your custom solution! A strong group of engineers and a vertically integrated manufacturing facility make Switchcraft and Conxall your logical choice for custom products. We can transform your product ideas into reality.

ENGINEERING CAPABILITIES

- Full staff of design engineers in Chicago and Villa Park, IL locations
- Full use of modeling and simulation software, for electronic and mechanical design
- Ability to provide rapid prototypes quickly after initial design concepts are completed
- Test lab and model shop on site for product development

ENGINEERING TEST CAPABILITIES

Testing Capabilities for Electrical Properties

- Insulation resistance
- Breakdown voltage
- Contact resistance
- Return losses
- Frequency response measurement

Mechanical Properties

- Force testing
- Life cycle testing
- Low level vibration

Environmental Testing

- Thermal cycling
- Salt spray
- · Humidity vs. temperature testing
- NEMA 250 (6P) IP 66/ 67/ 68



We manufacture many customized products. Some examples are:

- Panel connectors with flex circuits
- Wave soldering to panel mount connectors
- Custom assembly and wiring
- · Custom mounted and wired product assemblies
- · Wide selection of mold compounds for molded color products
- · Assembled ends for non-Switchcraft and Conxall products
- Fully molded units with connectors encapsulated into the assembly

HARSH ENVIRONMENT

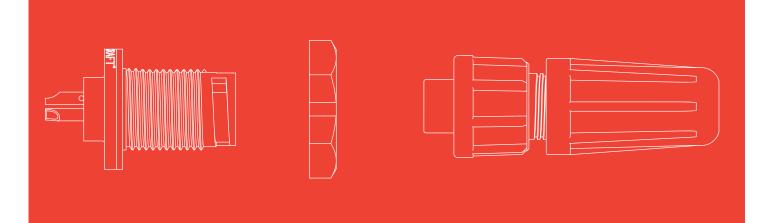


EN2 | MICRO-CON-X[®] | EN3[®] | MINI-CON-X[®] | SHIELDED MINI-CON-X[®] | MULTI-CON-X[®]

CONNECTIVITY SOLUTIONS



SHIELDED MULTI-CON-X[®] | MAXI-CON-X[®] | MEGA-CON-X[®] | MIL-E-QUAL[®]



EN2

0.53" [13MM] OD 2-7 CONTACTS



WINGED CABLE END - PIN MATES WITH PANEL MOUNT



RIBBED CABLE END - PIN MATES WITH PANEL MOUNT



WINGED CABLE END - SOCKET MATES WITH PANEL MOUNT



RIBBED CABLE END - SOCKET MATES WITH PANEL MOUNT



PANEL MOUNT - PIN MATES WITH CABLE END



PANEL MOUNT - SOCKET MATES WITH CABLE END

EN2

0.53" [13MM] OD 2-7 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration: Hex Nut Torque: Operating Forces:

Back Shell Type: Conductor Sizes: 600 insertion/withdrawal cycles minimum Mil-Std 202G Method 201A 5-6 in/lb 8 lb maximum insertion 0.25 lb minimum withdrawal Threaded Handle #20 contacts accepts 20 through 26 AWG #22 contacts accepts 20 through 26 AWG #26 contacts accepts 26 through 30 AWG

Electrical Specifications

Voltage Rating:

Current Rating: Insulation Resistance: Contact Resistance:

Environmental Specifications

Operating Temperature Limits: Moisture Resistance: Insulation Resistance: Thermal Shock: Salt Atmosphere (Corrosion): Weathertight Ratings: -40°C to +85°C (-40°F to +185°F) Mil-Std 202G Method 106G Mil-Std 202G Method 302 Condition B Mil-Std 202G Method 107G

250 V AC/DC for 2 contact arrangement 125 V AC/DC for 3-7 contact arrangements

See current rating table on page 109

1000 MΩ minimum

10 mΩ maximum

Mil-Std 202G Method 101E Condition B IP16, IP18, IP66, IP67, IP68 per IEC60529 NEMA 250 (6P), CFR 46 Part 110.20 Thermoplastic, Black

Material Specifications

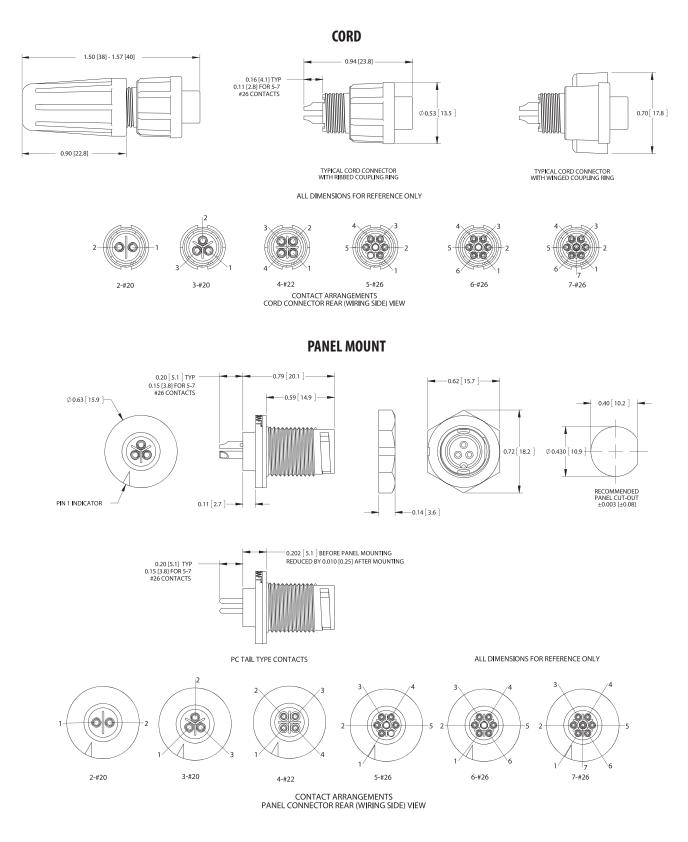
Connector Housing: Hex Nut: Coupling Ring: Cable Clamp: Handle (Back-Shell) Insulator: Seal Grommet: Contacts:

Thermoplastic, Black Thermoplastic, Black Thermoplastic, Black Thermoplastic, Black Thermoplastic, Black Elastomer, Black Elastomer, Black Copper Alloy, Plated

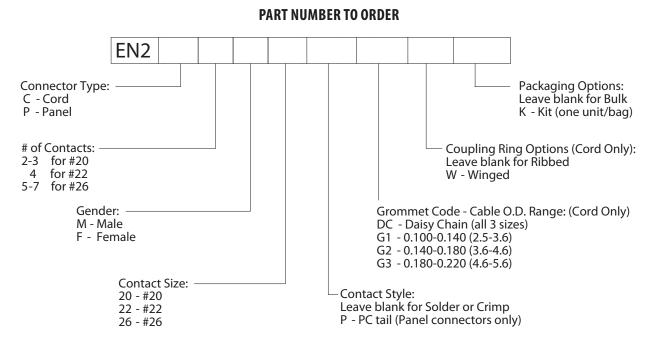
Consult factory for optional colors and materials

NOTE: Seal grommet provides an integrated O-ring seal for the connector assembly instead of a separate O-ring.

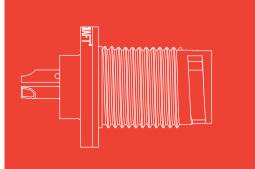
0.53" [13MM] OD 2-7 CONTACTS



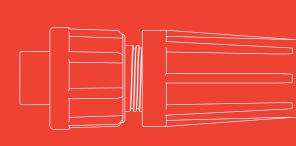
0.53" [13mm] OD 2-7 CONTACTS



Consult factory for Cable to Cable (Inline) type connectors.







0.53" [13mm] OD 2-7 CONTACTS



CABLE END - SOCKET MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE END - PIN MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE TO CABLE / INLINE - SOCKET MATES WITH CABLE END



PANEL MOUNT - PIN MATES WITH CABLE END



PANEL MOUNT - SOCKET MATES WITH CABLE END



DUST CAP P/N - 16295



IP RATED LOCKING CAP P/N-16295P (2-3 Contacts)



MOLDED CABLE END ASSEMBLY



MOLDED CABLE TO CABLE ASSEMBLY

MOLDED RIGHT ANGLE CABLE ASSEMBLY

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

0.53" [13MM] OD 2-7 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration:

Hex Nut Torque: Coupling Locking Style: Backshell Style: Conductor Sizes:

Electrical Specifications

Voltage Rating: Current Rating:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Backshell: Contacts: Coupling Ring: Gasket: Grommet / Strain Relief: Hex Nut: O-Ring: Shell: Optional Dust Cap:

Molded Cable Assemblies

Weathertight:

Certifications

Options UV Rating:

Flame Rating:

F1 available UL 94-HB; UL 94V-0 available

Consult factory for optional colors and materials

300 insertion / withdrawal cycles minimum Coupling rings have overriding locking feature to prevent loosening or separation of connector 9 in-lb max tightening torque. Bayonet with ribbed coupling nut (winged coupling nut available) P/N 16482 Non-removable snap lock #20 accepts 20 through 24 AWG #22 contacts accepts 22 through 24 AWG #26 contacts accepts 24 through 26 AWG

600V AC/DC 7.5 A – max (See page 107 for Electrical Current Rating Chart)

-40°C to +85°C (-40°F to +185°F) 300 Hr salt spray when mated IP67 at the face, when mated

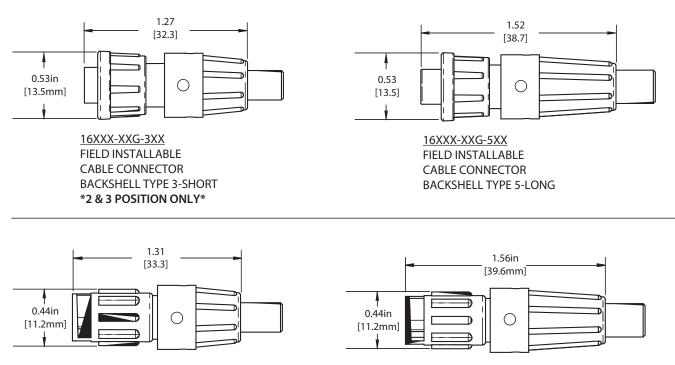
Thermoplastic, UL 94HB, Black Copper Alloy, Gold over Nickel Plate Thermoplastic, UL 94HB, Black Elastomer, Black Elastomer, Black Thermoplastic, UL 94HB, Black Elastomer, Black Thermoplastic, UL 94HB, Black Elastomer, Black

NEMA 6P, 13: IEC IP67

UL File E150822 CSA File 181200 Not for current interruption RoHS compliant REACH compliant

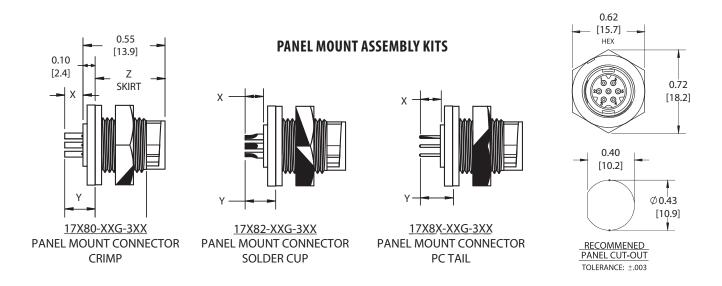
0.53" [13MM] OD 2-7 CONTACTS

FIELD INSTALLABLE KITS



18XXX-XXG-3XX FIELD INSTALLABLE CABLE TO CABLE CONNECTOR BACKSHELL TYPE 3-SHORT *2 & 3 POSITION ONLY*

18XXX-XXG-5XX FIELD INSTALLABLE CABLE TO CABLE CONNECTOR BACKSHELL TYPE 5-LONG

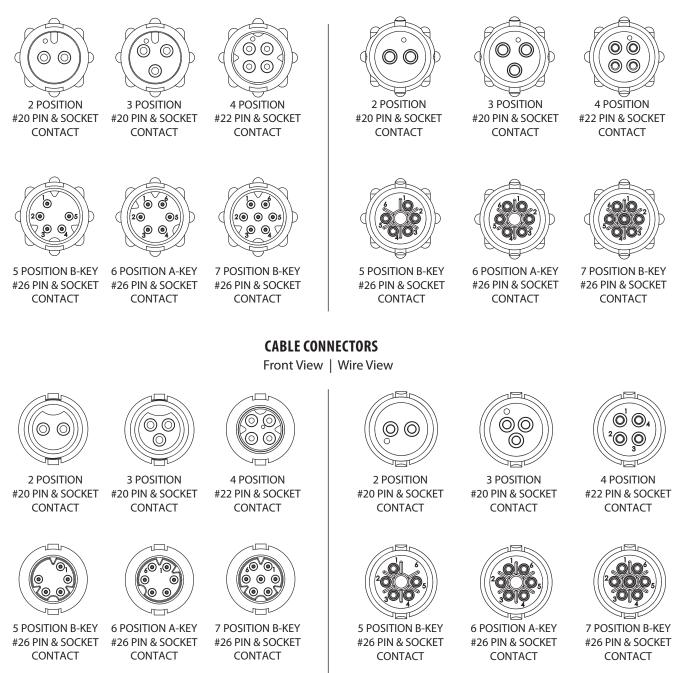


*X, Y, Z - Consult Factory. All dimensions are for reference only. Units shown: in[mm].

0.53" [13MM] OD 2-7 CONTACTS

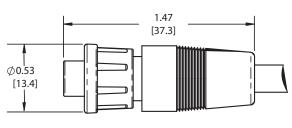
PANEL MOUNT / CABLE TO CABLE CONNECTORS

Front View | Wire View

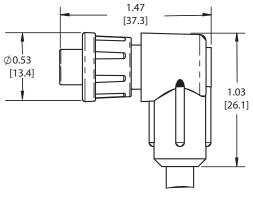


0.53" [13MM] OD 2-7 CONTACTS

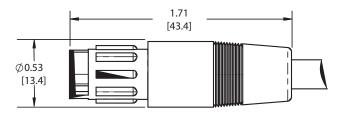
CUSTOM MOLDED CABLE ASSEMBLIES



<u>16XXX-XXG</u> CABLE CONNECTOR STRAIGHT OVERMOLDED



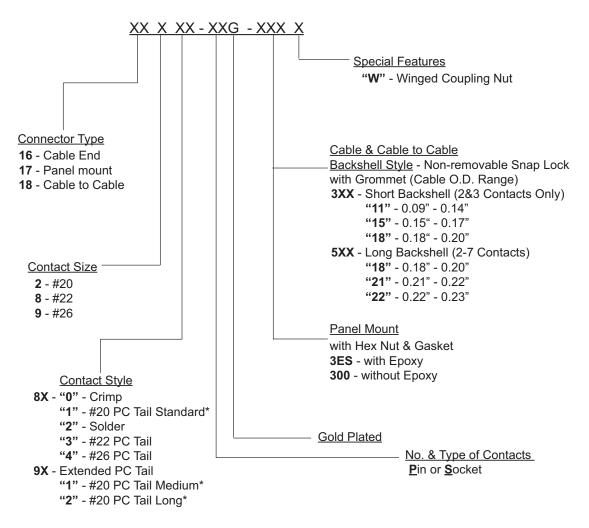
<u>16XXX-XXG</u> CABLE CONNECTOR RIGHT ANGLE OVERMOLDED



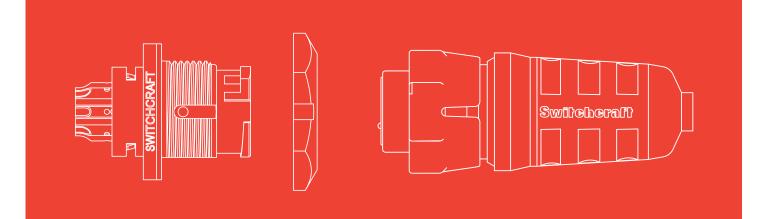
<u>18XXX-XXG</u> CABLE TO CABLE CONNECTOR STRAIGHT OVERMOLDED

0.53" [13MM] OD 2-7 CONTACTS

PART NUMBER TO ORDER



*Consult factory for length and diameter of PC Tail. Additionally, alternative colors and materials are available.



EN3®



CABLE END - SOCKET MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE END - PIN MATES WITH PANEL MOUNT AND CABLE TO CABLE



0.71" [18MM] OD 2-18 CONTACTS

CABLE TO CABLE / INLINE - PIN MATES WITH CABLE END



PANEL MOUNT - PIN MATES WITH CABLE END



PANEL MOUNT-SOCKET RIGHT ANGLE MATES WITH CABLE END



MOLDED RIGHT ANGLE ASSEMBLY



PANEL MOUNT-RIGHT ANGLE PCB MATES WITH CABLE END



DUST CAP FOR CABLE END P/N - EN3CAPC



QUICK DISCONNECT CABLE END



MOLDED CABLE END ASSEMBLY



EN3 CAP P/N - EN3CAP



IP RATED LOCKING CAP P/N - EN3IPCAPX

SWITCHCRAFT.COM • SALES@SWITCHCRAFT.COM • 5555 N ELSTON AVENUE, CHICAGO, IL 60630 • 773 792 2700 Please check our website for the most up-to-date product specifications.

EN3®

0.71" [18MM] OD 2-18 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration: Shock: Hex Nut Torque: Coupling Locking Style Back Shell Style: Conductor Sizes:

Electrical Specifications

Voltage Rating: Current Rating: Insulation Resistance: Contact Resistance:

Environmental Specifications

Operating Temperature Rating: Moisture Resistance: Insulation Resistance: Thermal Shock: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Panel connector shells & locking disk: Connector shell interior: Contacts:

Molded Cable Assemblies

Weathertight:

600 insertion / withdrawal cycles minimum Mil-Std 202 Method 201 Mil-Std 202 Method 213B, condition K All series hex nut to withstand 8-10 in-lb tightening torque. Bayonet with ribbed coupling nut (winged coupling nut available) Boot #16 contacts accepts 16 through 18 AWG #20 contacts accepts 20 through 22 AWG #26 contacts accepts 26 through 28 AWG

250 V AC/DC See current rating table on page 109 100 M Ω min 20 m Ω max

-40°C to +65°C (-40°F to +149°F) Mil-Std 202 Method 106F Mil-Std 202 Method 302 condition B Mil-Std 202 Method 107G Mil-Std 202 Method 101D condition B IEC 60529 IP16/IP18 IEC 60529 IP66/IP68 IEC 60529 IP68 NEMA 250 (6P) CFR 46 Part 110.20

Thermoplastic UL94V-0 Elastomeric, Black UL 94HB Copper Alloy, Gold over Nickel Plate

IEC 60529 IP66/IP68 IEC 60529 IP68 NEMA 250 (6P) CFR 46 Part 110.20

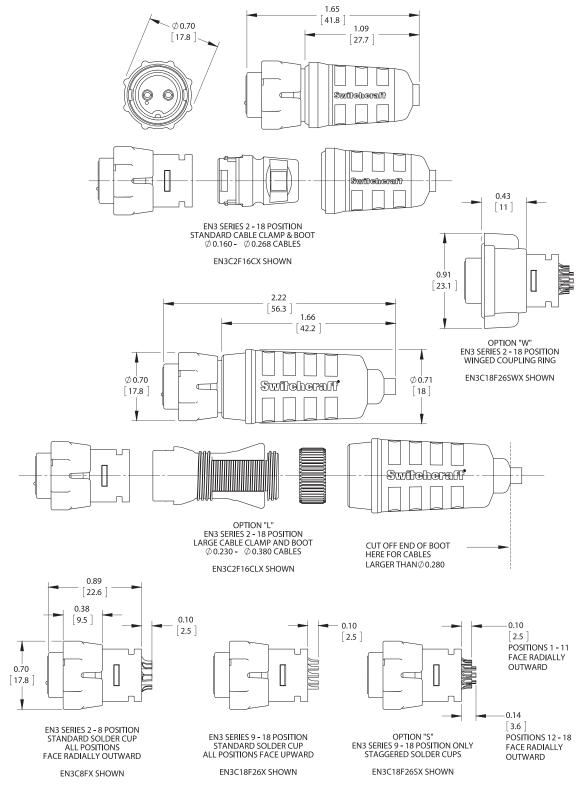
Certifications:

UL File E319753 ; 2-8 pin cord, in-line and panel only

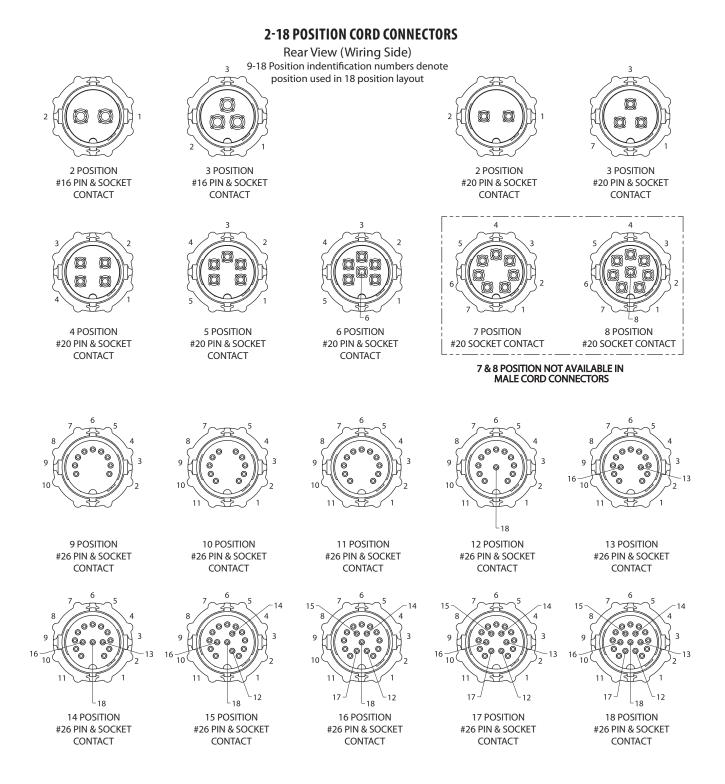
Consult factory for optional colors and materials

NOTE: Seal grommet provides an integrated O-ring seal for the connector assembly instead of a separate O-ring.

CORD CONNECTORS

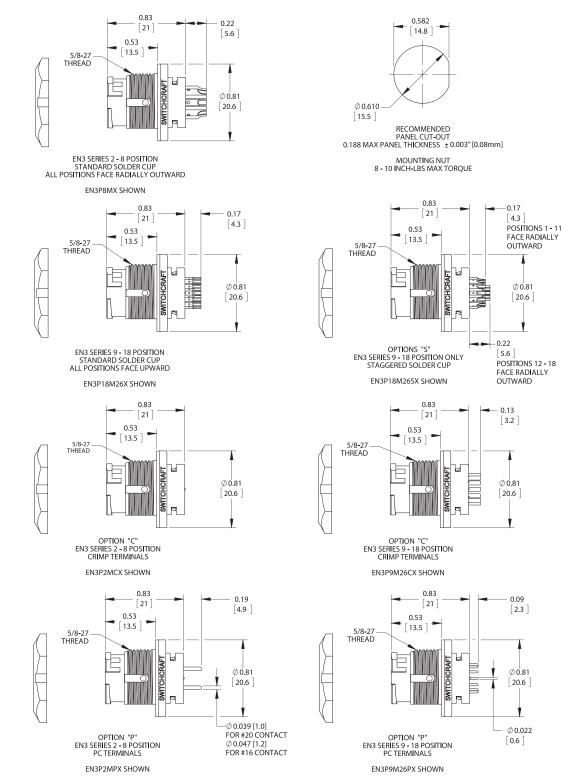






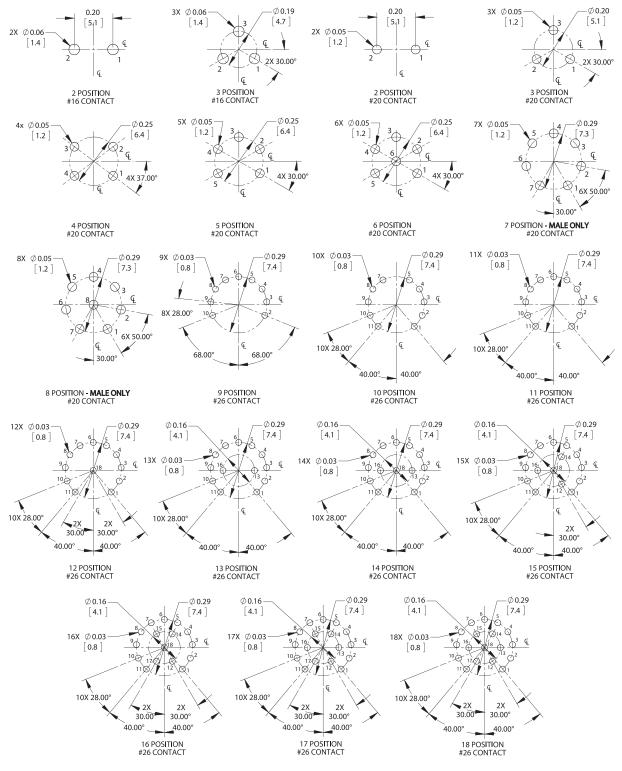
All dimensions are for reference only. Units shown: in[mm].

19



EN3® PANEL CONNECTORS

EN3® PANEL CONNECTORS PCB LAYOUT COMPONENT SIDE

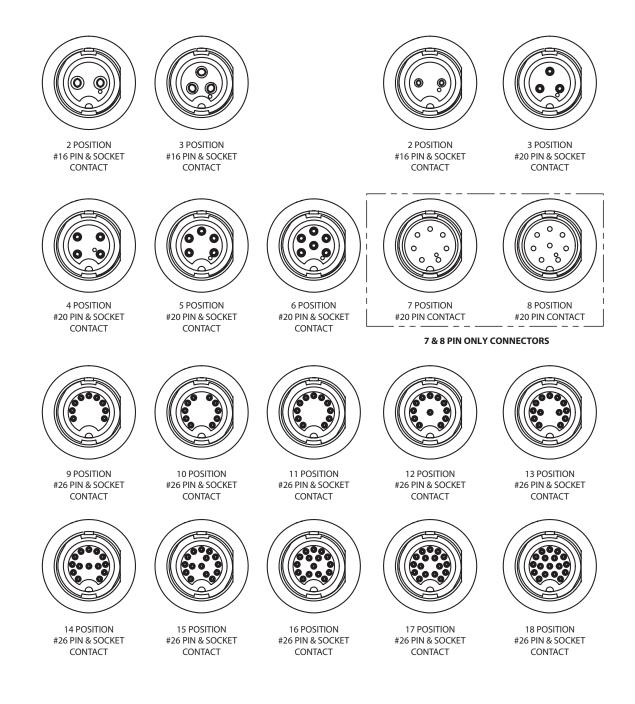


All dimensions are for reference only. Units shown: in[mm].

SWITCHCRAFT.COM • SALES@SWITCHCRAFT.COM • 5555 N ELSTON AVENUE, CHICAGO, IL 60630 • 773 792 2700 Please check our website for the most up-to-date product specifications.

2-18 PIN PANEL CONNECTORS

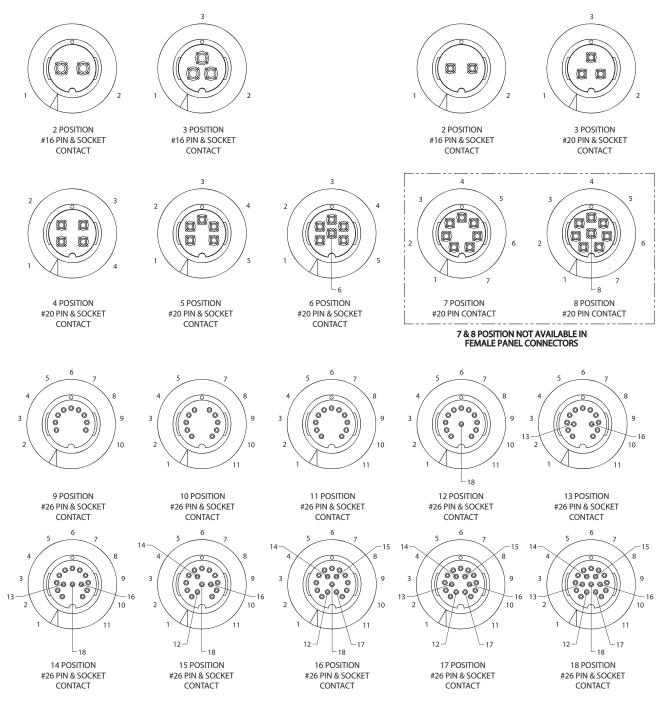
Front View (Mating End)



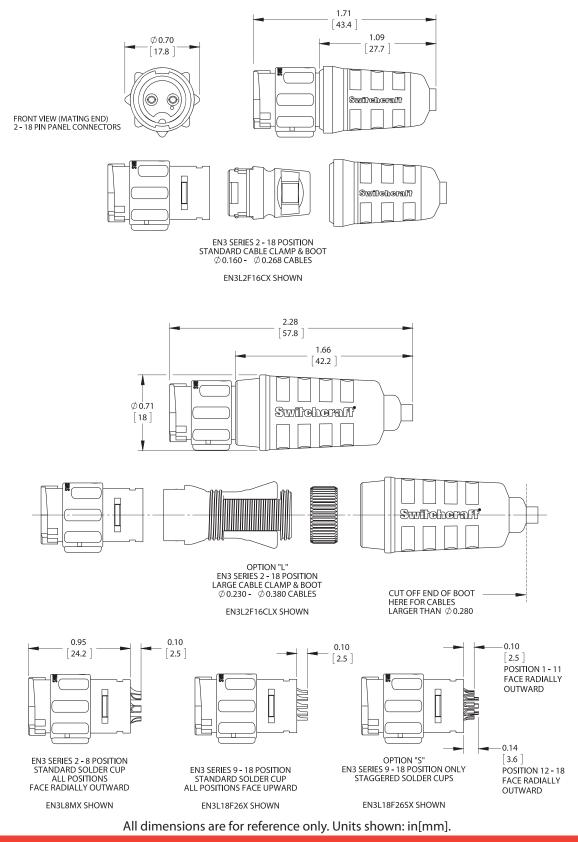
2-18 PANEL CONNECTORS

Rear View (Wiring Side)

9-18 position identification numbers denote position used in 18 position layout

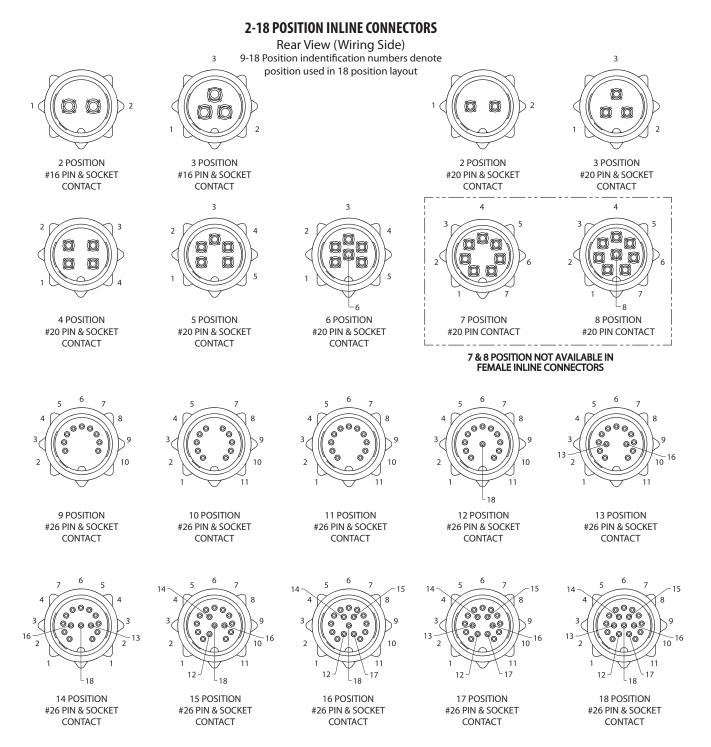


INLINE CONNECTORS



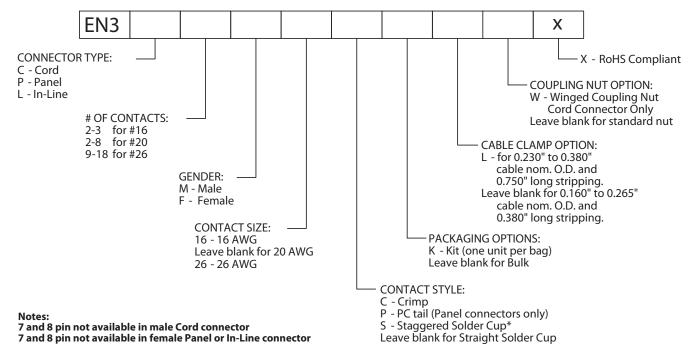
SWITCHCRAFT.COM • SALES@SWITCHCRAFT.COM • 5555 N ELSTON AVENUE, CHICAGO, IL 60630 • 773 792 2700 Please check our website for the most up-to-date product specifications.





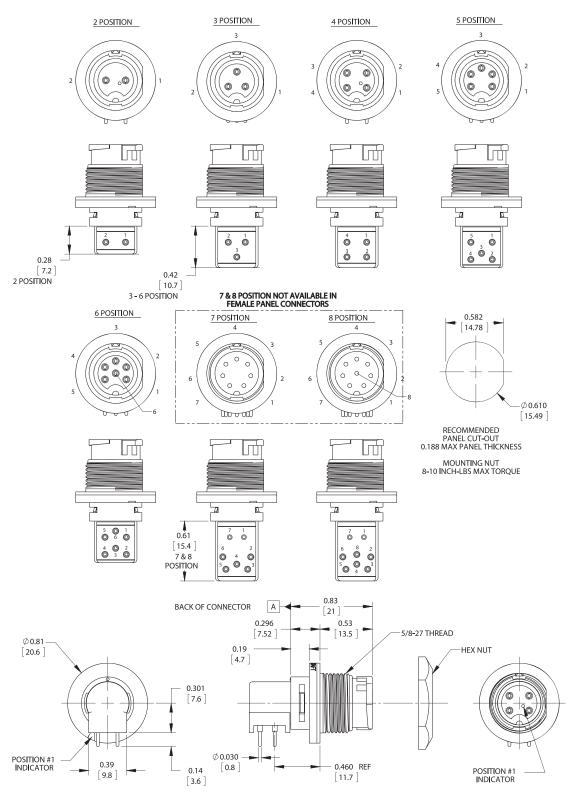
0.71" [18_{MM}] OD 2-18 CONTACTS

PART NUMBER TO ORDER - EN3®

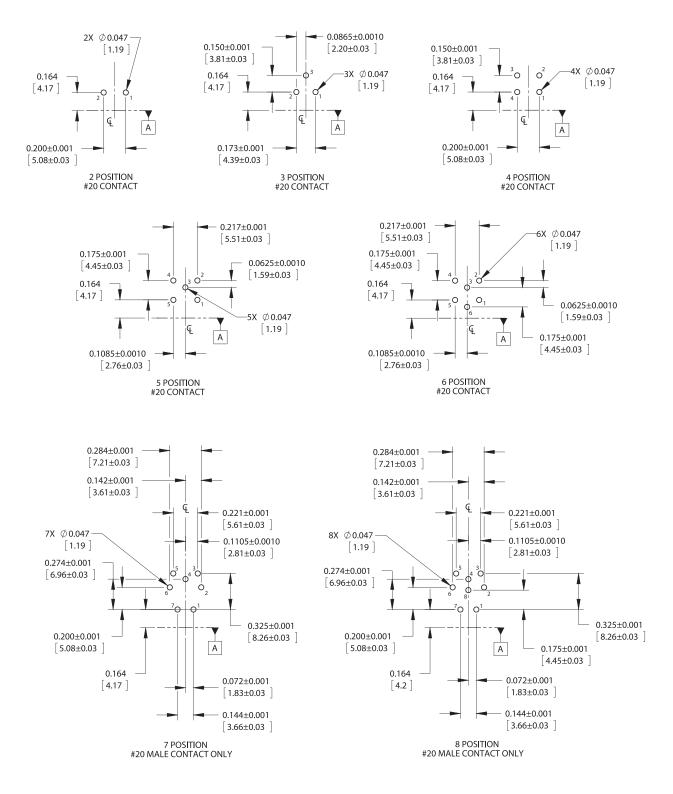


*Available only for products with 9-18 contacts

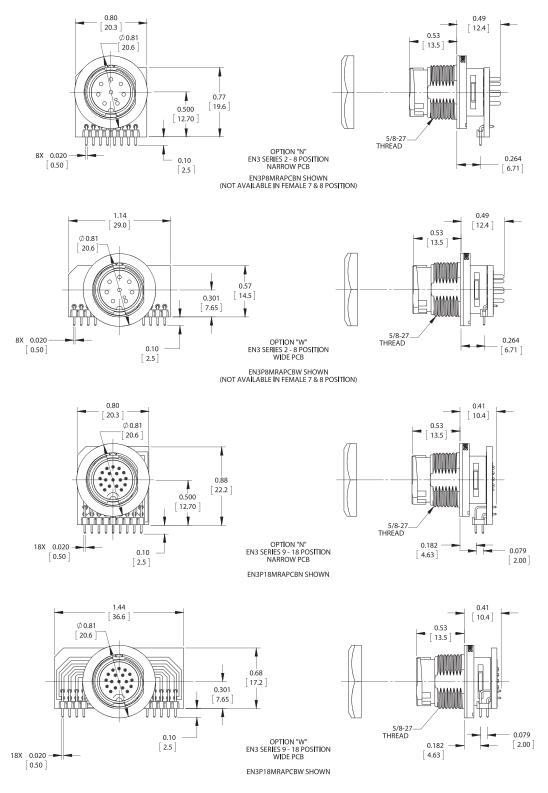
EN3® RIGHT ANGLE 2-8 POSITION MOLDED CONNECTORS



EN3® RIGHT ANGLE 2-8 POSITION CONNECTORS



EN3® RIGHT ANGLE PC BOARD CONNECTORS

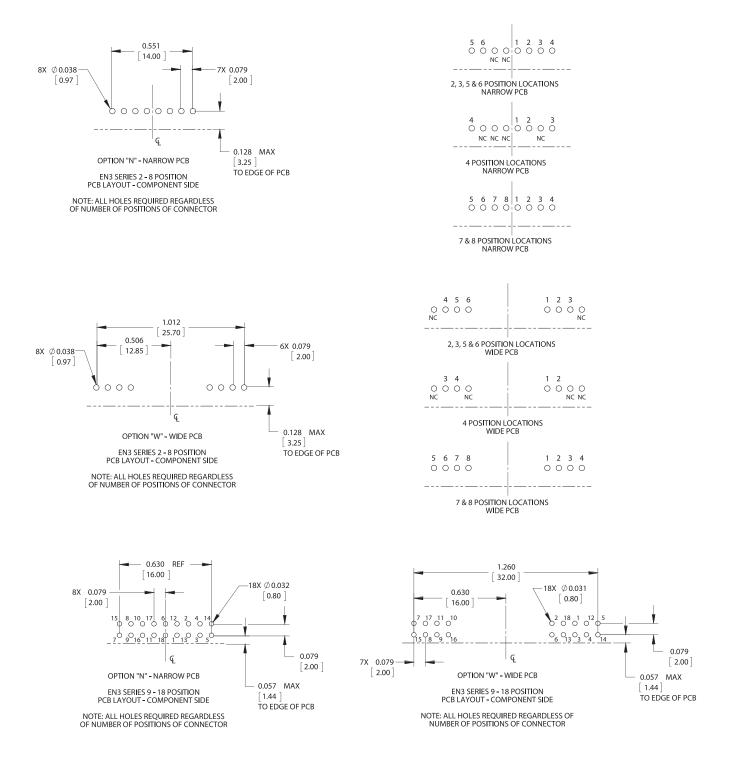


All dimensions are for reference only. Units shown: in[mm].

SWITCHCRAFT.COM • SALES@SWITCHCRAFT.COM • 5555 N ELSTON AVENUE, CHICAGO, IL 60630 • 773 792 2700 Please check our website for the most up-to-date product specifications.

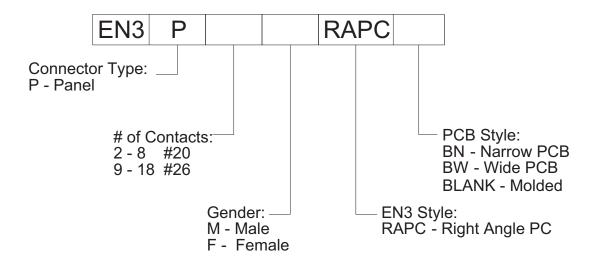


EN3® RIGHT ANGLE PC BOARD CONNECTORS



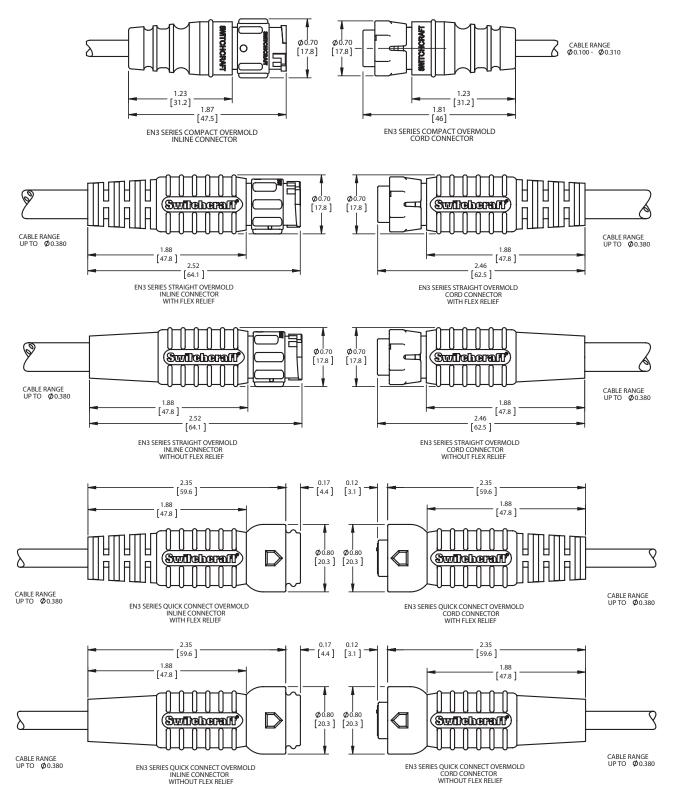


PART NUMBER TO ORDER - RIGHT ANGLE EN3® PANEL MOUNTS



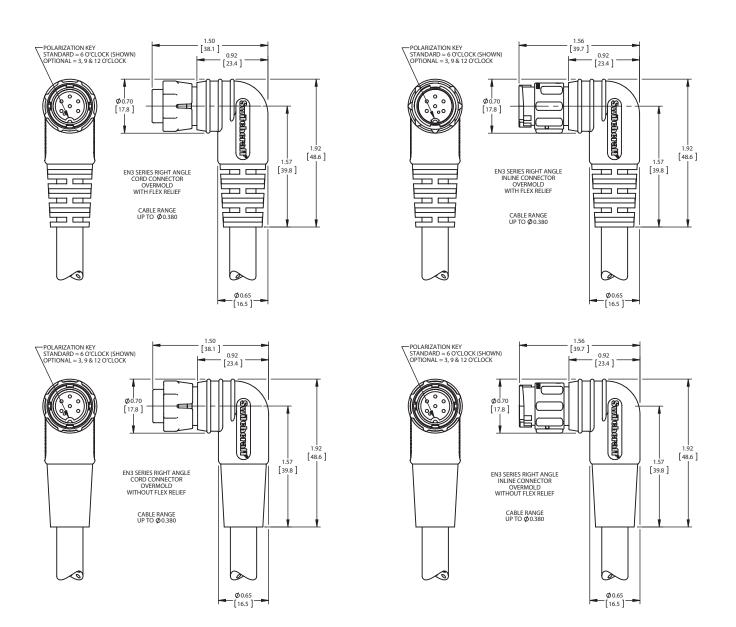
Notes: 7 and 8 pin not available in female Panel connector

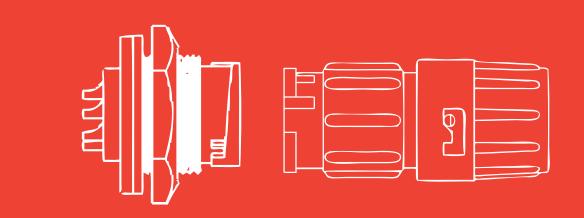
CUSTOM MOLDED CABLE ASSEMBLIES





CUSTOM MOLDED CABLE ASSEMBLIES





MINI-CON-X®

0.71" [18MM] OD 2-8 CONTACTS



CABLE END - SOCKET MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE END - PIN MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE TO CABLE / INLINE - PIN MATES WITH CABLE END



PANEL MOUNT - PIN MATES WITH CABLE END



PANEL MOUNT - SOCKET MATES WITH CABLE END



DUST CAP P/N - 6295



IP RATED LOCKING CAP P/N - 6295P-W







MOLDED CABLE END ASSEMBLY



CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

MINI-CON-X®

0.71" [18MM] OD 2-8 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration:

Hex Nut Torque: Coupling Locking Style: Backshell Style: Conductor Size:

Electrical Specifications

Voltage Rating: Current Rating:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Backshell: Contacts: Coupling Ring: Gasket: Grommet / Strain Relief: Hex Nut: O-Ring: Shell:

Optional Dust Cap:

Molded Cable Assemblies

Weathertight:

Certifications

Options

UV Rating: Flame Rating: 300 insertion / withdrawal cycles minimum Coupling rings have overriding locking feature to prevent loosening or separation of connector 10 in-lb max tightening torque. Bayonet with ribbed coupling nut (winged coupling nut available) P/N 6482 Removable twist lock #16 contacts accepts 16 through 18 AWG #20 contacts accepts 20 through 24 AWG

600 V AC/DC 13.0 A – max (See page 107 for Electrical Current Rating Chart)

-40°C to +85°C (-40°F to +185°F) 300 Hr salt spray when mated IP67 when mated

Thermoplastic, UL 94HB, Black Copper Alloy, Gold over Nickel Plate Thermoplastic, UL 94HB, Black Elastomer, Black Elastomer, Black Thermoplastic, UL 94HB, Black Elastomer, Black Thermoplastic, UL 94HB, Black

Elastomer, Black

NEMA 6P, 13: IEC IP67

UL File E150822 CSA File 181200 Not for current interruption RoHS compliant REACH compliant

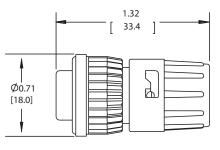
F1 available UL 94V-0 available

Consult factory for optional colors and materials

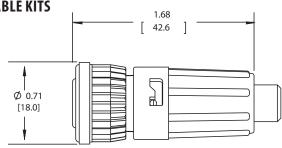
MINI-CON-X®

0.71" [18MM] OD 2-8 CONTACTS

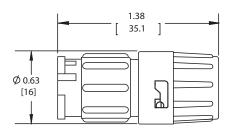
FIELD INSTALLABLE KITS



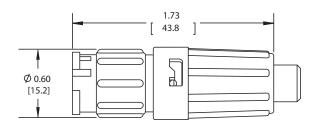
6XXX-XXG-3XX FIELD INSTALLABLE CABLE CONNECTOR TWIST LOCK BACKSHELL TYPE 3-SHORT



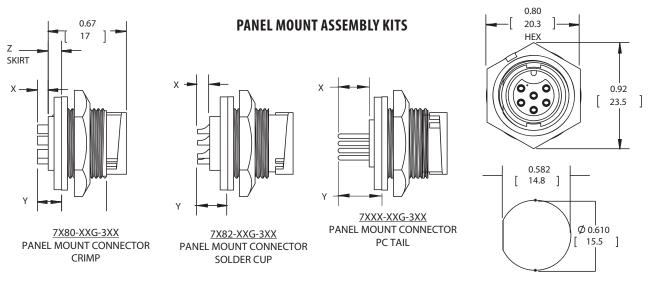
6XXX-XXG-5XX FIELD INSTALLABLE CABLE CONNECTOR TWIST LOCK BACKSHELL TYPE 5-LONG



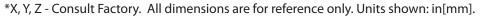
8XXX-XXG-3XX FIELD INSTALLABLE CABLE TO CABLE CONNECTOR TWIST LOCK BACKSHELL TYPE 3-SHORT



8XXX-XXG-5XX FIELD INSTALLABLE CABLE TO CABLE CONNECTOR TWIST LOCK BACKSHELL TYPE 5-LONG



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

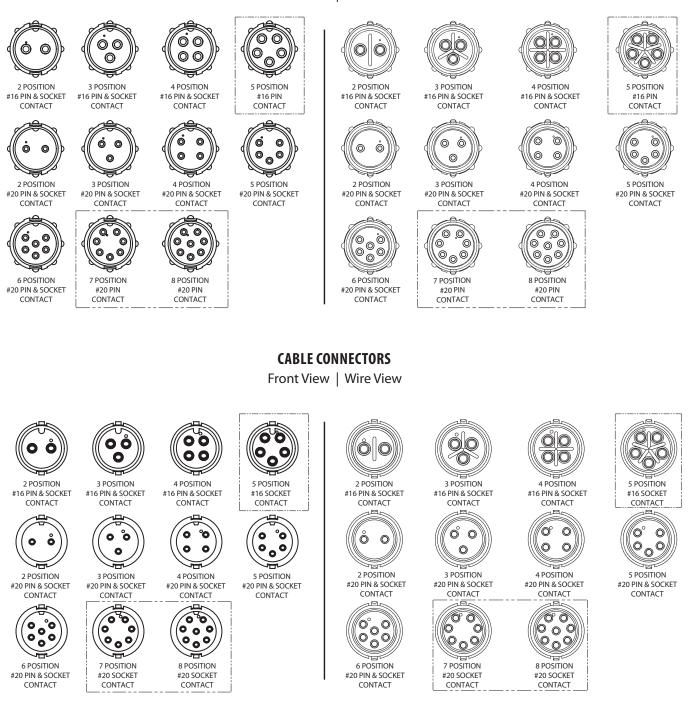


MINI-CON-X®

0.71" [18MM] OD 2-8 CONTACTS

PANEL MOUNT / CABLE TO CABLE CONNECTORS

Front View | Wire View



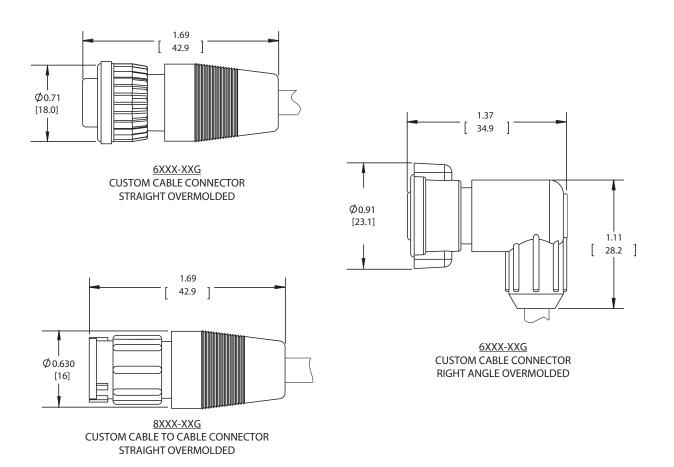
All dimensions are for reference only. Units shown: in[mm].

37

MINI-CON-X®

0.71" [18MM] OD 2-8 CONTACTS

CUSTOM MOLDED CABLE ASSEMBLIES

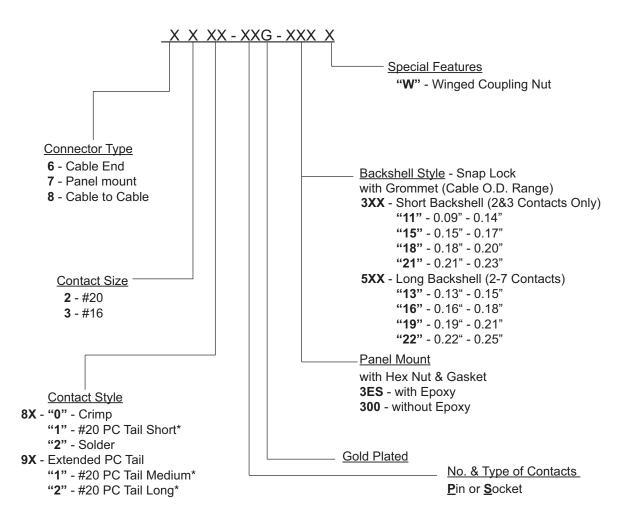


Note: Mini-Con-X[®] can be overmolded onto an extended well panel mount. Straight version only.

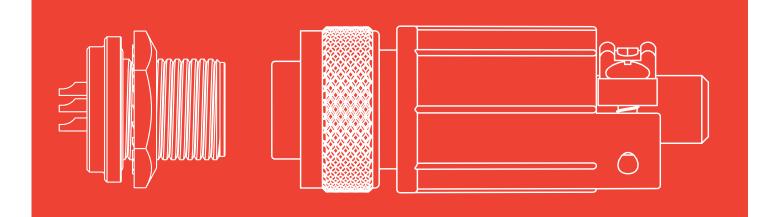
- Available in: 2#20, 4#20 and 6#20 female
- Available in: 4#20, 6#20 and 7#20 male

0.71" [18MM] OD 2-8 CONTACTS

PART NUMBER TO ORDER



*Consult factory for length and diameter of PC Tail. Additionally, alternative colors and materials are available.



SHIELDED MINI-CON-X®



CABLE END - SOCKET MATES WITH PANEL MOUNT



PANEL MOUNT - PIN MATES WITH CABLE END



MOLDED CABLE END ASSEMBLY

0.760"[19MM]OD 2-8 CONTACTS



CABLE END - PIN MATES WITH PANEL MOUNT



PANEL MOUNT - SOCKET MATES WITH CABLE END



MOLDED RIGHT ANGLE CABLE ASSEMBLY

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

SHIELDED MINI-CON-X®

0.760" [19MM] OD 2-8 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration: Hex Nut Torque: Coupling Locking Style: Backshell Style:

Electrical Specifications

Voltage Rating: Current Rating: Conductor Size:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Backshell & Strap: Contacts: Coupling Ring: Inserts: Grommet / Strain Relief: O-Ring: Shell: Cable Housing: Screws:

Molded Cable Assemblies

Weathertight:

Certifications

Options

Flame Rating:

400 insertion / withdrawal cycles minimum MIL-STD 202G Method 201A 10-12 in-lb max tightening torque. Threaded Coupling Ring Threaded

600 VAC/DC 13.0 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

-40°C to +85°C (-40°F to +185°F) Method 106F, Mil-Std 202 IP66 / IP68 NEMA 250 (6P) (when mated)

Thermoplastic Copper Alloy, Gold over Nickel Plate Nickel Plated Copper Alloy Thermoplastic Elastomer Elastomer Nickel Plated Copper Alloy Nickel Plated Copper Alloy Stainless Steel

IP66 / IP68 NEMA 250 (6P) (when mated)

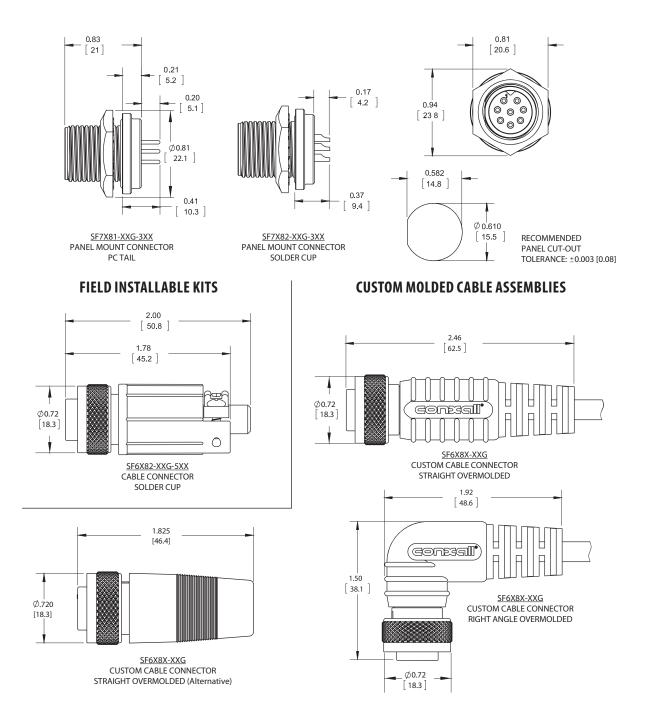
Not for current interruption RoHS compliant

UL 94HB

SHIELDED MINI-CON-X®

PANEL MOUNT ASSEMBLY KITS

0.760" [19MM] OD 2-8 CONTACTS



SHIELDED MINI-CON-X[®] 0.760" [19MM]OD 2-8 CONTACTS

PANEL MOUNT CONNECTOR

Front View





3 POSITION #16 PIN & SOCKET CONTACT



#16 PIN & SOCKET

CONTACT

0

ര



6 POSITION #16 PIN & SOCKET CONTACT







5 POSITION 6 POSITION #20 PIN & SOCKET CONTACT ALTERNATE CONTACT ALTERNATE



2 POSITION #20 PIN & SOCKET CONTACT

3 POSITION #20 PIN & SOCKET CONTACT

4 POSITION #20 PIN & SOCKET CONTACT

5 POSITION #20 PIN & SOCKET CONTACT

6 POSITION #20 PIN & SOCKET CONTACT

7 POSITION #20 PIN & SOCKET CONTACT

5 POSITION

#16 PIN & SOCKET

CONTACT

8 POSITION #20 PIN & SOCKET CONTACT

#20 PIN & SOCKET

PANEL MOUNT CONNECTOR

Wire View



2 POSITION #16 PIN & SOCKET #16 PIN & SOCKET CONTACT



4 POSITION CONTACT



5 POSITION

3 POSITION

CONTACT

#20 PIN & SOCKET CONTACT



4 POSITION

#16 PIN & SOCKET

CONTACT

6 POSITION #20 PIN & SOCKET CONTACT



7 POSITION #20 PIN & SOCKET CONTACT

5 POSITION

#16 PIN & SOCKET

8 POSITION #20 PIN & SOCKET CONTACT

6 POSITION



5 POSITION #20 PIN & SOCKET CONTACT ALTERNATE CONTACT ALTERNATE

#20 PIN & SOCKET

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

43



#20 PIN & SOCKET CONTACT



#20 PIN & SOCKET











6 POSITION

#16 PIN & SOCKET

CONTACT

SHIELDED MINI-CON-X® 0.760" [19MM] OD 2-8 CONTACTS

CABLE CONNECTORS

Front View

4 POSITION

#16 PIN & SOCKET

CONTACT





2 POSITION #16 PIN & SOCKET CONTACT



010 2 POSITION

(O) 1(O

#16 PIN & SOCKET



4 POSITION #20 PIN & SOCKET

CONTACT





6 POSITION

CONTACT

#16 PIN & SOCKET #16 PIN & SOCKET CONTACT



5 POSITION #20 PIN & SOCKET CONTACT

0 6

#20 PIN & SOCKET

CONTACT









6 POSITION #20 PIN & SOCKET CONTACT

CONTACT

CONTACT

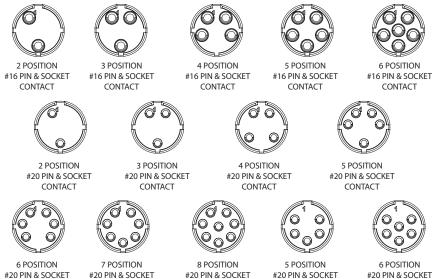
7 POSITION #20 PIN & SOCKET CONTACT

5 POSITION #20 PIN & SOCKET #20 PIN & SOCKET CONTACT CONTACT ALTERNATE

6 POSITION #20 PIN & SOCKET CONTACT ALTERNATE

CABLE CONNECTORS

Wire View



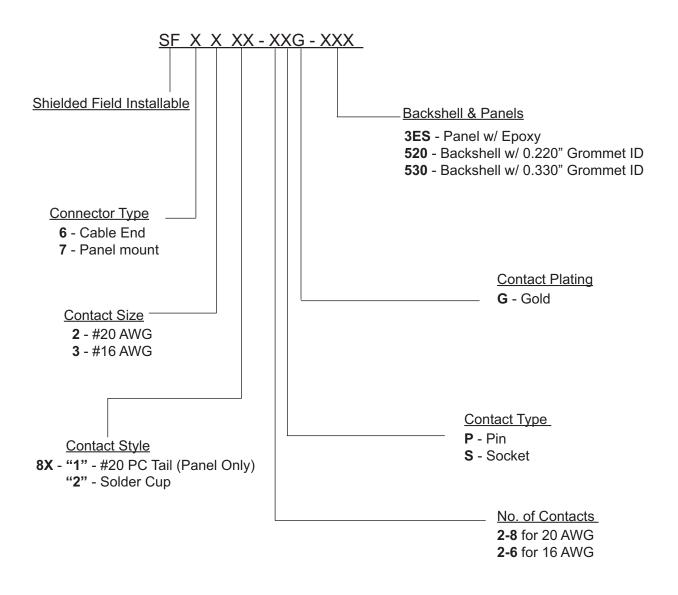
#20 PIN & SOCKET CONTACT CONTACT ALTERNATE



CONTACT ALTERNATE

SHIELDED MINI-CON-X® 0.760"[19mm]0D 2-8 CONTACTS

PART NUMBER TO ORDER



Consult factory for connectors with alternate 5-20AWG and 6-20AWG contact arrangements.



0.875" [22MM] OD 2-12 CONTACTS



CABLE END - SOCKET MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE END - PIN MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE TO CABLE / INLINE - SOCKET MATES WITH CABLE END



PANEL MOUNT - PIN MATES WITH CABLE END



MOLDED CABLE END ASSEMBLY



PANEL MOUNT - SOCKET MATES WITH CABLE END



MOLDED CABLE TO CABLE ASSEMBLY



DUST CAP P/N - 4295



MOLDED RIGHT ANGLE CABLE ASSEMBLY

0.875"[22MM]OD 2-12 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration:

Hex Nut Torque: Coupling Locking Style: Backshell Style: Conductor Size:

Electrical Specifications

Voltage Rating: Current Rating:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Backshell: Contacts: Coupling Ring: Gasket: Grommet / Strain Relief: Hex Nut: O-Ring: Shell:

Optional Dust Cap:

Molded Cable Assemblies

Weathertight:

Certifications

Options

UV Rating: Flame Rating: 300 insertion / withdrawal cycles minimum Coupling rings have overriding locking feature to prevent loosening or separation of connector 10 in-lb tightening torque. Bayonet with ribbed coupling nut (winged coupling nut available) P/N 4482 Threaded #12 contacts accepts 12 through 14 AWG #16 contacts accepts 16 through 18 AWG #20 contacts accepts 20 through 24 AWG

600 VAC/DC 17.0 A – max (See page 107 for Electrical Current Rating Chart)

-40°C to +85°C (-40°F to +185°F) 300 Hr salt spray when mated IP67 when mated

Thermoplastic, UL 94HB, Black Copper Alloy, Gold over Nickel Plate Thermoplastic, UL 94HB, Black Elastomer, Black Elastomer, Black Thermoplastic, UL 94HB, Black Elastomer, Black Thermoplastic, UL 94HB, Black

Elastomer, Black

NEMA 6P, 13: IEC IP67

UL File E150822 CSA File 181200 Not for current interruption RoHS compliant REACH compliant

F1 available UL 94V-0 available

Consult factory for optional colors and materials

0.875" [22MM] OD 2-12 CONTACTS

RECOMMENED

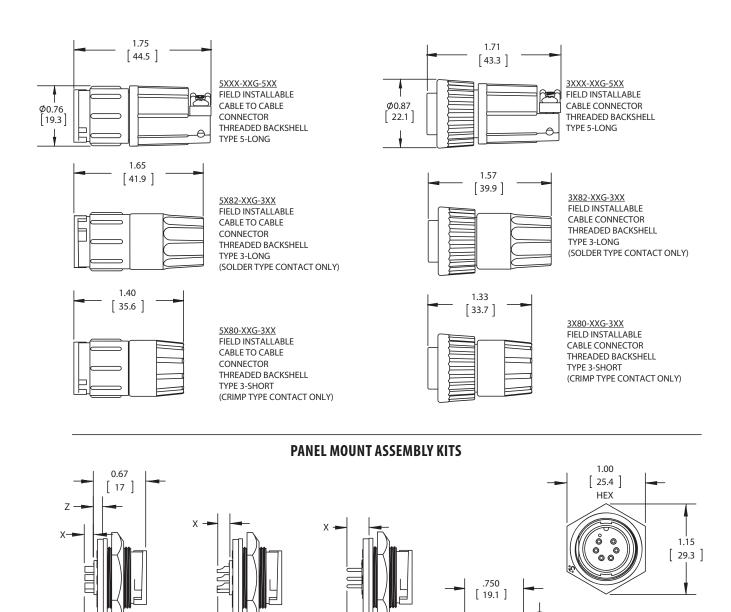
PANEL CUT-OUT

TOLERANCE: ±0.003 [0.08]

Ø.790

[20.1]

FIELD INSTALLABLE KITS



4X82-XXG-3XX

PANEL MOUNT CONNECTOR

SOLDER CUP

Υ

4XXX-XXG-3XX

PANEL MOUNT CONNECTOR

PC TAIL

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

*X, Y, Z - Consult Factory. All dimensions are for reference only. Units shown: in[mm].

Y -

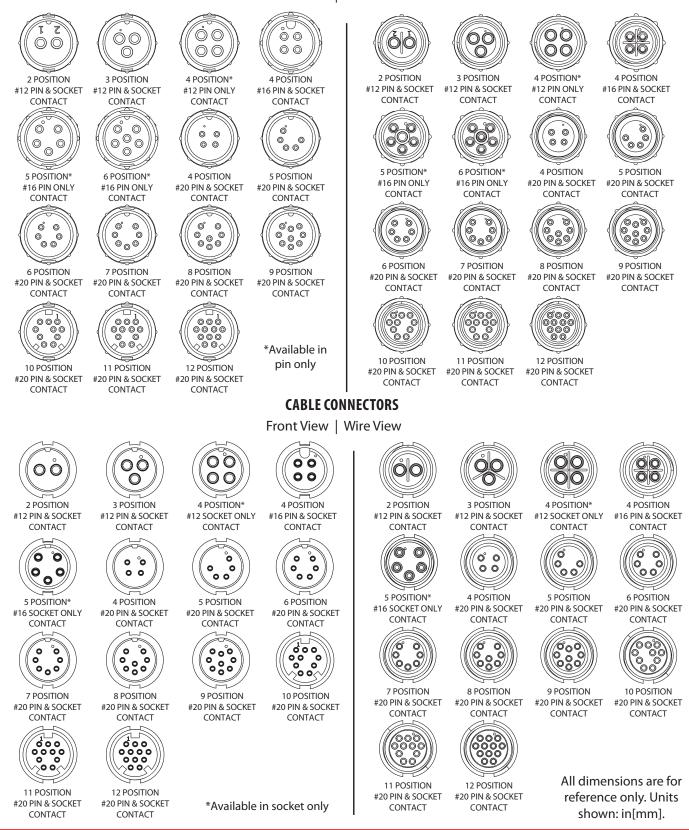
4X80-XXG-3XX PANEL MOUNT CONNECTOR

CRIMP

0.875" [22MM] OD 2-12 CONTACTS

PANEL MOUNT / CABLE TO CABLE CONNECTORS

Front View | Wire View



CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

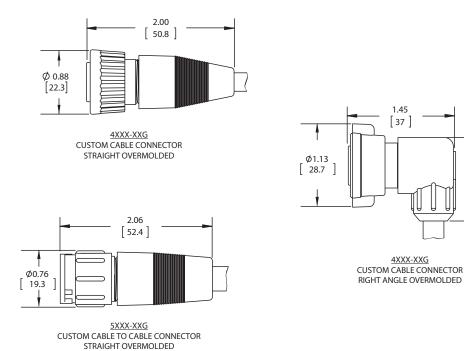
0.875"[22MM]OD 2-12 CONTACTS

1.45 [37]

4XXX-XXG

1.13 [28.8]

CUSTOM MOLDED CABLE ASSEMBLIES

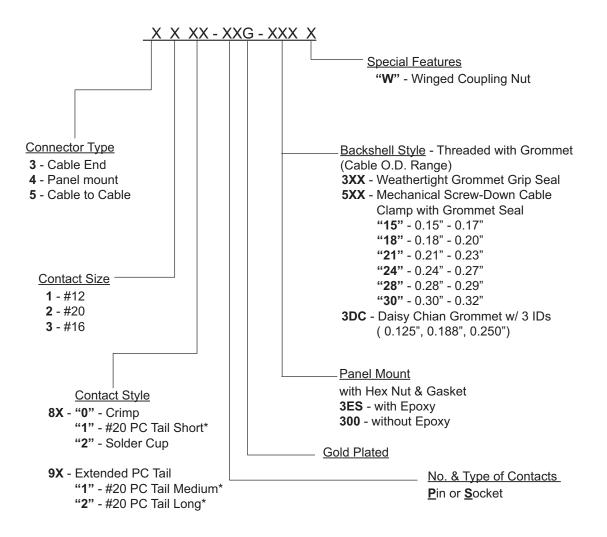


Note: Multi-Con-X[®] can be overmolded onto an extended well panel mount. Straight version only.

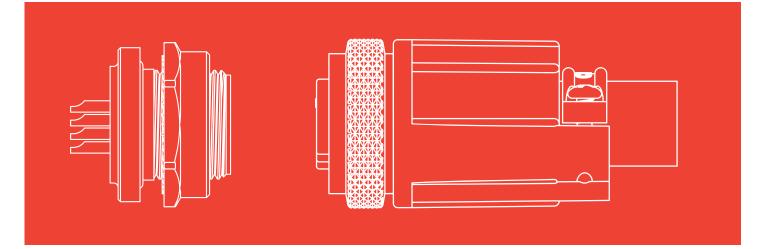
- Available in: 5#20, 6#20 and 9#20 male
- Available in: 4#20 and 9#20 female

0.875" [22MM] OD 2-12 CONTACTS

PART NUMBER TO ORDER



*Consult factory for length and diameter of PC Tail. Additionally, alternative colors and materials are available.





CABLE END - SOCKET MATES WITH PANEL MOUNT AND CABLE TO CABLE



PANEL MOUNT - PIN MATES WITH CABLE END



MOLDED CABLE END ASSEMBLY

SPECIFICATIONS

Mechanical Specifications

Life: Vibration:

Hex Nut Torque: Coupling Locking Style: Backshell Style:

Electrical Specifications

Voltage Rating: Current Rating: Conductor Size:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Cable Ends Coupling Nut & Housing: Contacts: Insert: Backshell & Strap: Screws: O-Rings:

Metal Panel Mounts

Shell: Nut: Contacts: Insert:

Plastic Panel Mounts

Housing: Shielding Nut: Contacts:

Molded Cable Assemblies

Weathertight:

Certifications

400 insertion / withdrawal cycles minimum Coupling rings have overriding locking feature to prevent loosening or separation of connector 10-12 in-lb tightening torque. Threaded Coupling Ring Threaded

600V AC 13.0 A – max (See page 107 for Electrical Current Rating Chart) 2 through 4 #16 contacts accepts 16 AWG 2 through 12 #20 contacts accepts 20 AWG

-40°C to +85°C (-40°F to +185°F) 48 Hr salt spray when mated IP66 / IP68 NEMA 250 (6P) (when mated)

Nickel Plated Copper Alloy Copper Alloy, Gold over Nickel Plating Thermoplastic Thermoplastic Stainless Steel Elastomer

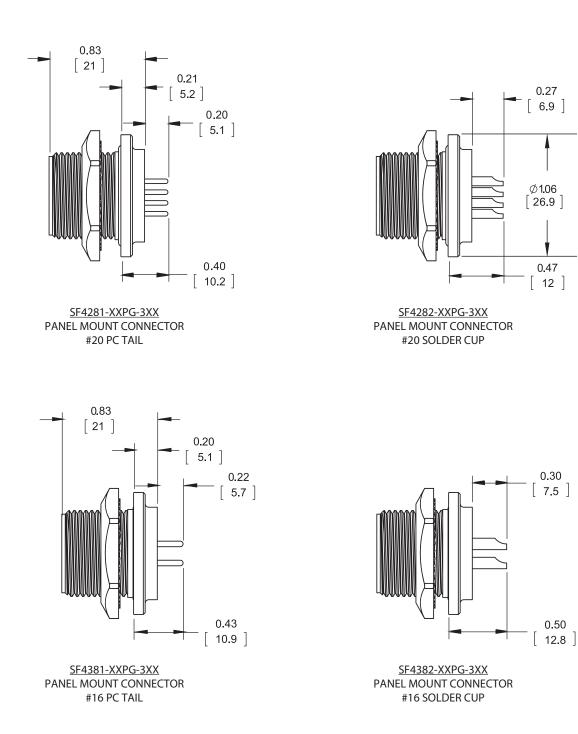
Nickel Plated Copper Alloy Nickel Plated Copper Alloy Copper Alloy, Gold over Nickel Plating Thermoplastic

Thermoplastic Nickel Plated Aluminum Copper Alloy. Gold over Nickel Plating

IP66 / IP68 NEMA 250 (6P) (when mated)

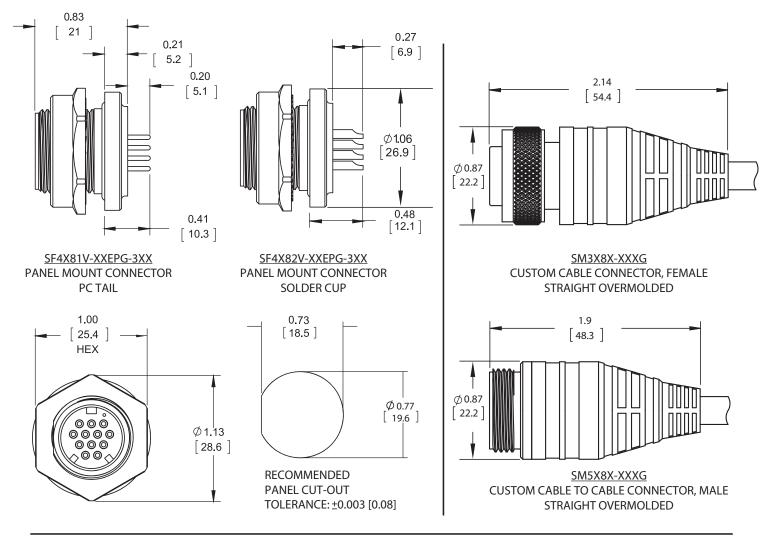
Not for current interruption RoHS compliant

PANEL MOUNT ASSEMBLY KITS - PIN ONLY - METAL

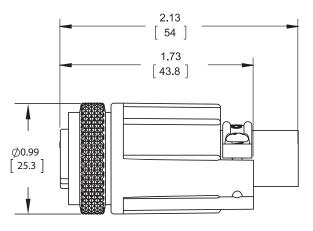


PANEL MOUNT ASSEMBLY KITS - PIN ONLY - PLASTIC

CUSTOM MOLDED CABLE ASSEMBLIES



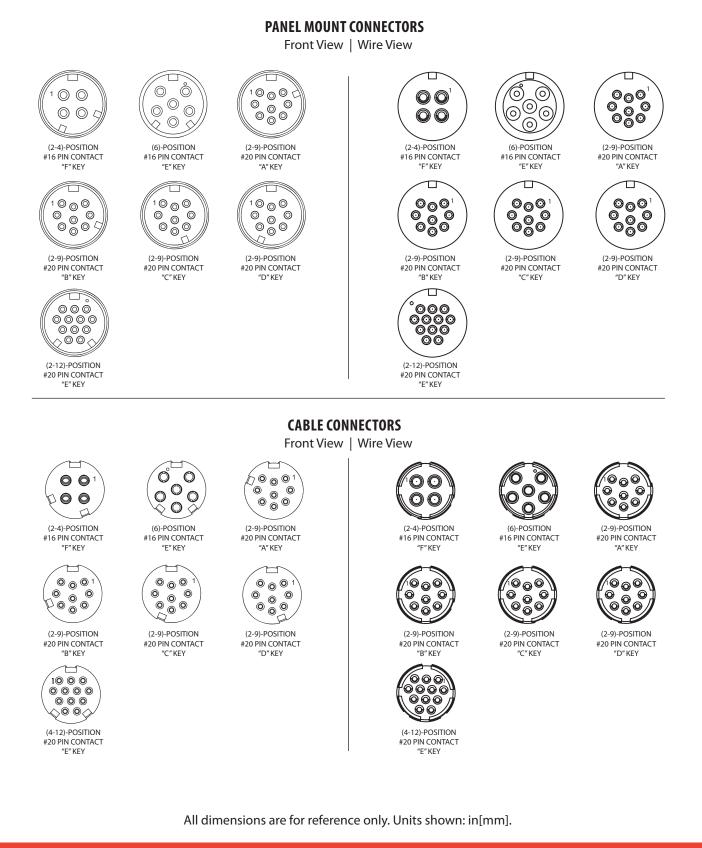
FIELD INSTALLABLE KITS - SOCKET ONLY



<u>SF3X8X-XXSG-5XX</u> FIELD INSTALLABLE CABLE CONNECTOR KIT

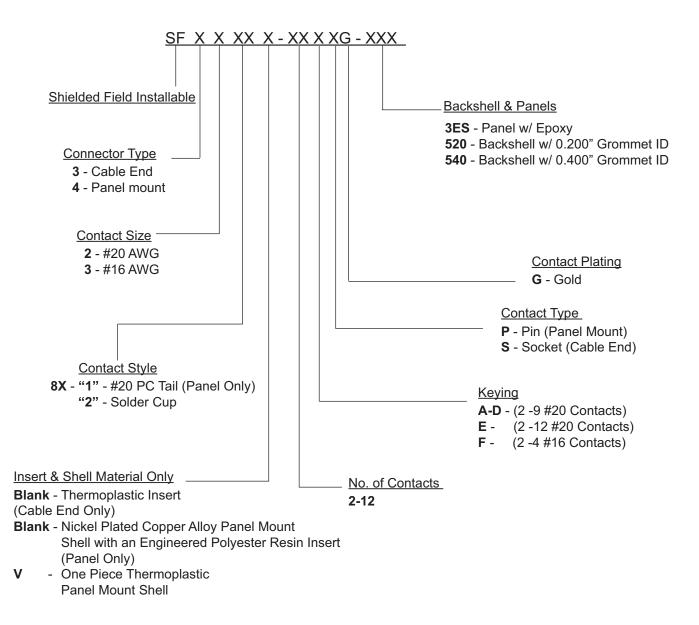
All dimensions are for reference only. Units shown: in[mm].

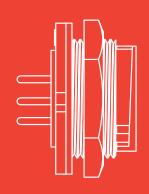
CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

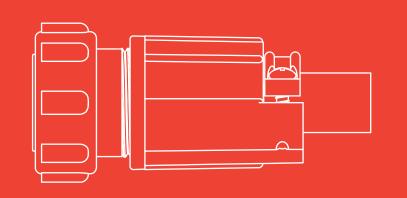


56

PART NUMBER TO ORDER







1.17" [29mm] OD 7, 10, 18 & 20 CONTACTS

MAXI-CON-X®

CABLE END - SOCKET MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE END - PIN MATES WITH PANEL MOUNT AND CABLE TO CABLE



CABLE TO CABLE / INLINE - PIN MATES WITH CABLE END



PANEL MOUNT - PIN MATES WITH CABLE END



MOLDED CABLE END ASSEMBLY



PANEL MOUNT - SOCKET MATES WITH CABLE END



DUST CAP P/N - 14295



MOLDED RIGHT ANGLE CABLE ASSEMBLY



1.17" [29MM] OD 7. 10, 18 & 20 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration:

Hex Nut Torque: Coupling Locking Style: Backshell Style: Conductor Size:

Electrical Specifications

Voltage Rating: Current Rating:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Backshell: Contacts: Coupling Ring: Gasket: Grommet / Strain Relief: Hex Nut: O-Ring: Shell:

Optional Dust Cap:

Molded Cable Assemblies

Weathertight:

Certifications

Options UV Rating: Flame Rating: 300 insertion / withdrawal cycles minimum Coupling rings have overriding locking feature to prevent loosening or separation of connector 10 in-lb max tightening torque. Bayonet with ribbed coupling nut (winged coupling nut available) P/N 14482 Threaded #12 contacts accepts 12 through 14 AWG #16 contacts accepts 16 through 18 AWG #20 contacts accepts 20 through 24 AWG

600V DC / 480V AC 23.0 A – max (See page 107 for Electrical Current Rating Chart)

-40°C to +85°C (-40°F to +185°F) 300 Hr salt spray when mated IP67 when mated

Thermoplastic, UL 94HB, Black Copper Alloy, Gold over Nickel Plate Thermoplastic, UL 94HB, Black Elastomer, Black Elastomer, Black Thermoplastic, UL 94HB, Black Elastomer, Black Thermoplastic, UL 94HB, Black

Elastomer, Black

NEMA 6P, 13: IEC IP67

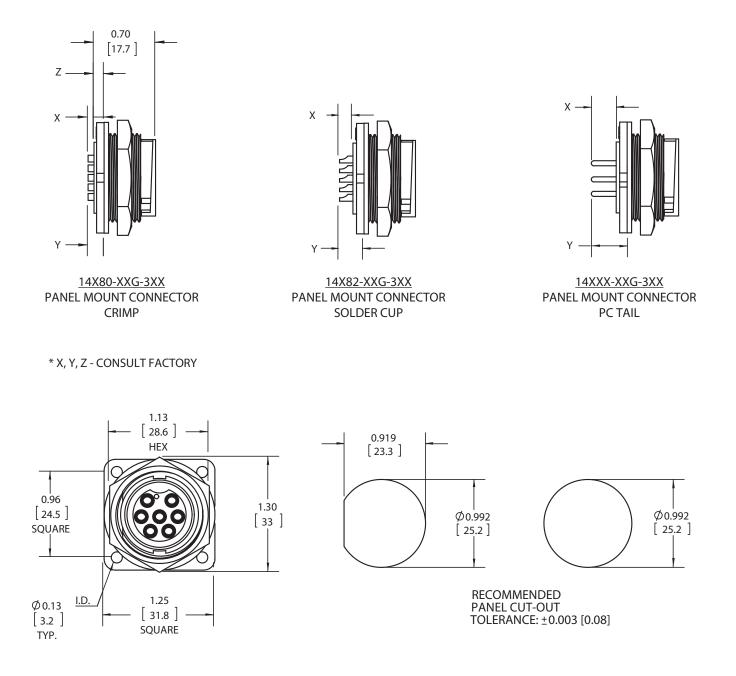
UL File E150822 CSA File 181200 Not for current interruption RoHs compliant REACH compliant

F1 available UL 94V-0 available

Consult factory for optional colors and materials

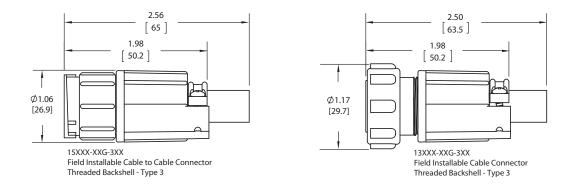
1.17" [29MM] OD 7, 10, 18 & 20 CONTACTS

PANEL MOUNT ASSEMBLY KITS

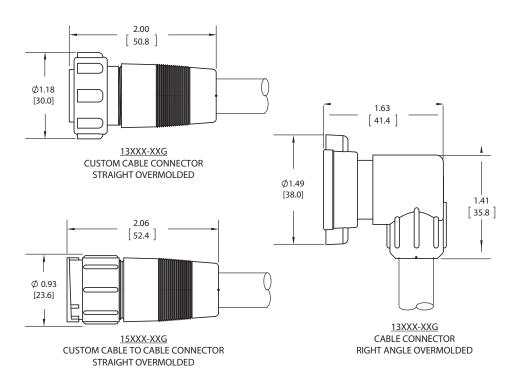


1.17" [29MM] OD 7, 10, 18 & 20 CONTACTS

FIELD INSTALLABLE KITS



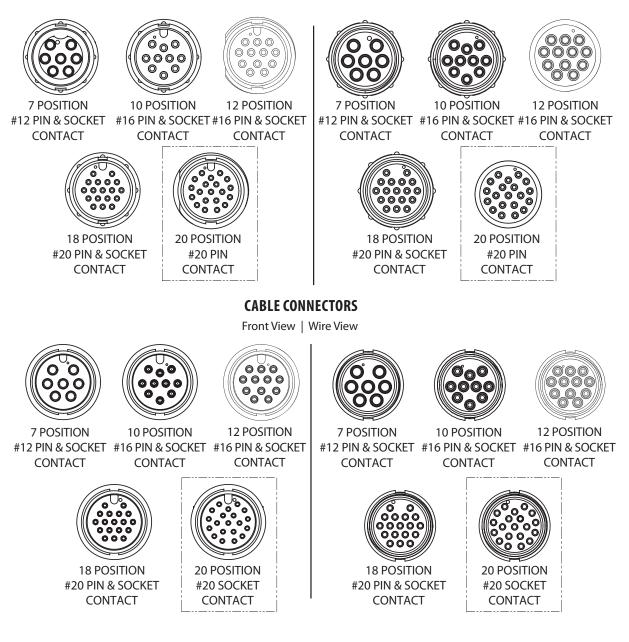
CUSTOM MOLDED CABLE ASSEMBLIES



1.17" [29MM] OD 7. 10. 18 & 20 CONTACTS

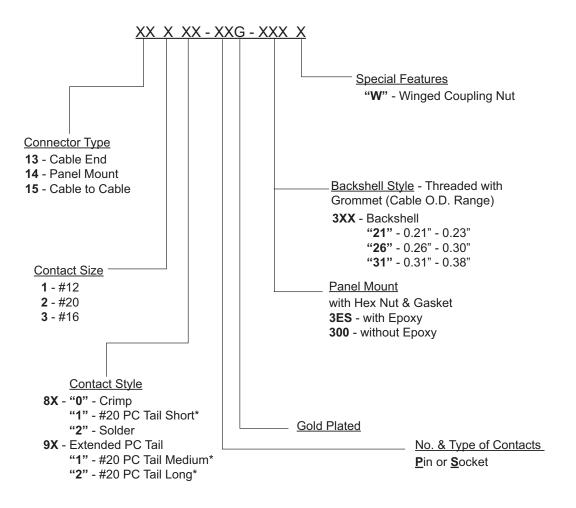
PANEL MOUNT CONNECTORS

Front View | Wire View

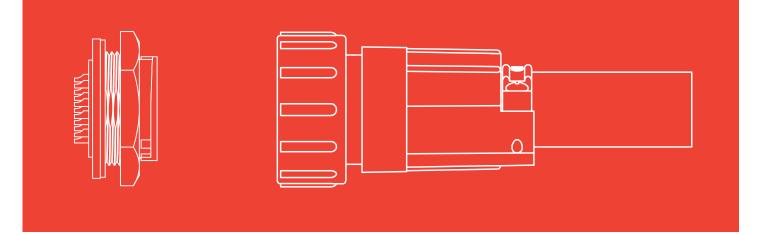


1.17" [29MM] OD 7, 10, 18 & 20 CONTACTS

PART NUMBER TO ORDER



*Consult factory for length and diameter of PC Tail. Additionally, alternative colors and materials are available.





CABLE END - SOCKET MATES WITH PANEL MOUNT



1.29" [32MM] OD 31 CONTACTS

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

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

1.29" [32MM] OD 31 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Vibration:

Hex Nut Torque: Coupling Style: Backshell Style: Conductor Size:

Electrical Specifications

Voltage Rating: Current Rating:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Backshell: Contacts: Coupling Ring: Gasket: Grommet / Strain Relief: Hex Nut: O-Ring: Shell:

Optional Dust Cap:

Molded Cable Assemblies

Weathertight:

Certifications

Options

UV Rating: Flame Rating: 300 insertion / withdrawal cycles minimum Coupling rings have overriding locking feature to prevent loosening or separation of connector 10 in-lb max tightening torque. Bayonet with ribbed coupling nut (winged coupling nut available) Threaded #20 contacts accepts 20 through 24 AWG

600V AC 2.3 A – max (See page 107 for Electrical Current Rating Chart)

-40°C to +85°C (-40°F to +185°F) 300 Hr salt spray when mated IP67 when mated

Thermoplastic, UL 94HB, Black Copper Alloy, Gold over Nickel Plate Thermoplastic, UL 94HB, Black Elastomer, Black Elastomer, Black Thermoplastic, UL 94HB, Black Elastomer, Black Thermoplastic, UL 94HB, Black

Elastomer, Black

NEMA 6P, 13: IEC IP67

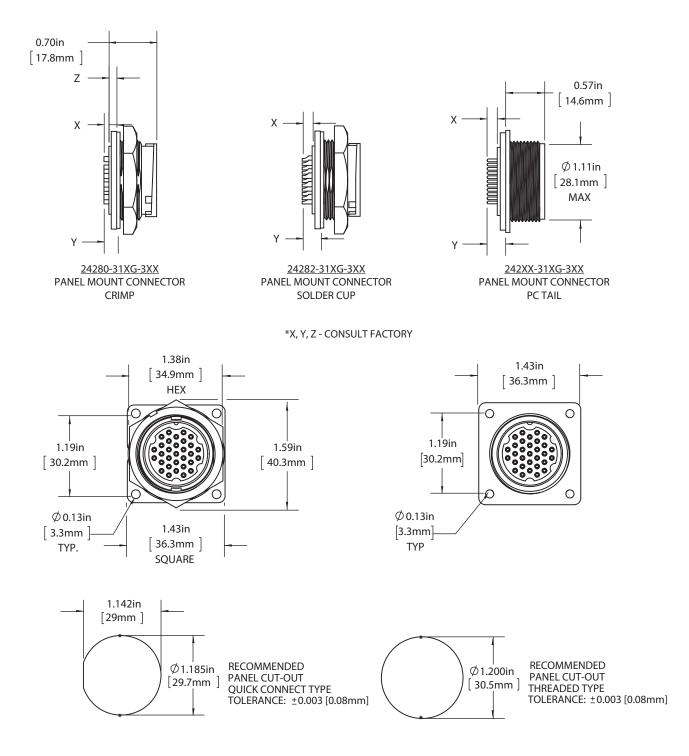
UL File E150822 CSA File 181200 Not for current interruption RoHS compliant REACH compliant

F1 available UL 94V-0 available

Consult factory for optional colors and materials

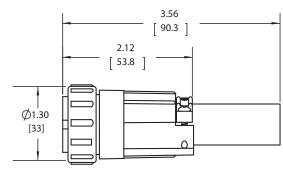
1.29" [32MM] OD 31 CONTACTS

PANEL MOUNT ASSEMBLY KITS

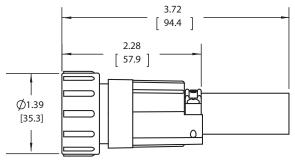


1.29" [32MM] OD 31 CONTACTS

FIELD INSTALLABLE KITS

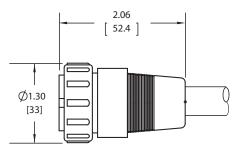


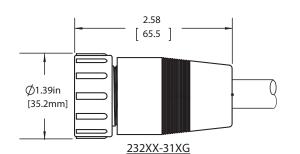
232XX-31XG-3XX FIELD INSTALLABLE QUICK CONNECT TYPE CABLE CONNECTOR - BACKSHELL TYPE 3



232XX-31XG-T3XX FIELD INSTALLABLE THREADED TYPE CABLE CONNECTOR - BACKSHELL TYPE 3

CUSTOM MOLDED CABLE ASSEMBLIES

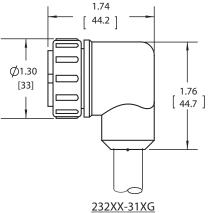


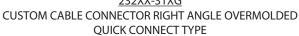


CUSTOM CABLE CONNECTOR STRAIGHT OVERMOLDED

THREADED CONNECT TYPE

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

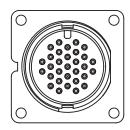




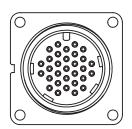
1.27" [32MM] OD 31 CONTACTS

PANEL MOUNT CONNECTORS

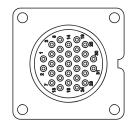
Front View | Wire View



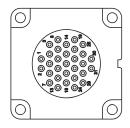
QUICK CONNECT TYPE SINGLE KEY 31-POSITION #20 PIN CONTACT



THREADED TYPE 5 KEY 31-POSITION #20 PIN CONTACT



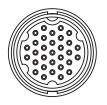
QUICK CONNECT TYPE SINGLE KEY 31-POSITION #20 PIN CONTACT



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

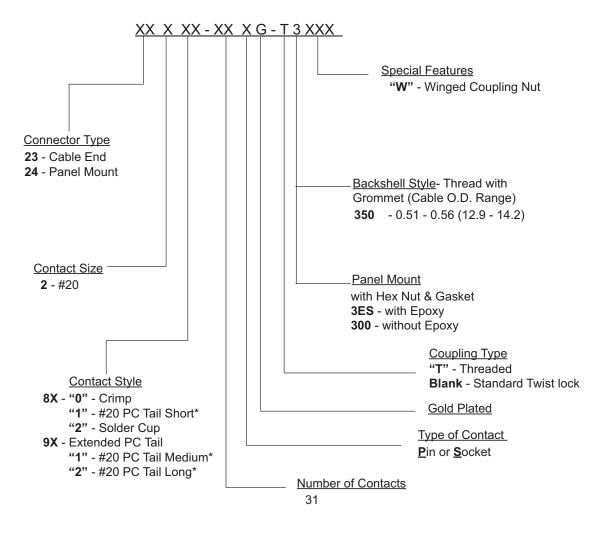


THREADED TYPE 5 KEY 31-POSITION #20 PIN CONTACT

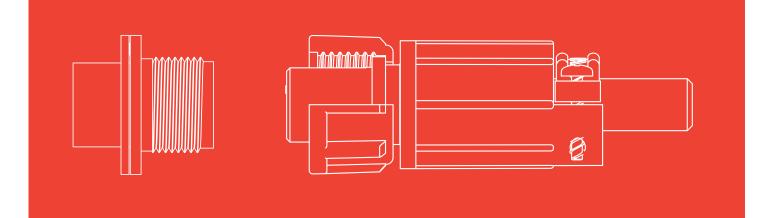
MEGA-CON-X[®]

1.27" [32mm] OD 31 CONTACTS

PART NUMBER TO ORDER



*Consult factory for length and diameter of PC Tail. Additionally, alternative colors and materials are available.



MIL-E-QUAL[®] (MIL-C-50 15 EQUIVALENT)



CABLE END - SOCKET MATES WITH PANEL MOUNT



PANEL MOUNT - PIN MATES WITH CABLE END



CABLE END - PIN MATES WITH PANEL MOUNT



CABLE CAP

2-37 CONTACTS



PANEL MOUNT - SOCKET MATES WITH CABLE END



RECEPTACLE CAP OVERMOLDED ONLY



MOLDED CABLE END ASSEMBLY

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

MIL-E-QUAL[®] (MIL-C-50 15 EQUIVALENT)

2-37 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Coupling Locking Style: Backshell Style: Conductor Size:

Electrical Specifications

Voltage Rating:

Current Rating:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Weathertight:

Material Specifications

Cable Pin / SocketMechanical Backshell (Threaded):ThermStrap:ThermScrews:StainleGrommet:ElastorCoupling Ring:ThermContacts:CoppeConnector Body:ThermConnector Cap (Optional):ThermO-Ring (Optional):ElastorAlternate Keys/Different Keyways AvailableW, X, Y

Box Receptacle, In-Line receptacle, Pin/Socket

Contacts: Receptacle Body: Receptacle Cap (Optional): Gasket (Optional): Alternate Keys/Different Keyways Available

Molded Cable Assemblies

Weathertight:

Certifications

NEMA 6P, 13: IEC IP67 when mated

UL File #E150822 CSA File #181200 Patterns: 18-11, 18-1, 18-19, 20-27 U.L. Temperature 75°C (167°F) max. Not for current interruption

Options

UV Rating: Flame Rating: F1 available UL94V-0 available

Consult factory for optional colors and materials

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

300 insertion / withdrawal cycles minimum Threaded Threaded #12 contacts accepts 12 through 16 AWG #16 contacts accepts 16 through 20 AWG

600 VAC for shell types 3101A and 3102A 500 VAC for shell type 3106A up to 28 positions 277 VAC for shell type 3106A from 29 or greater positions 23.0 A – max (See page 108 for Electrical Current Rating Chart)

-40°C to +75°C (-40°F to +167°F) 48Hr salt spray contacts when mated **Consult factory with specific application**

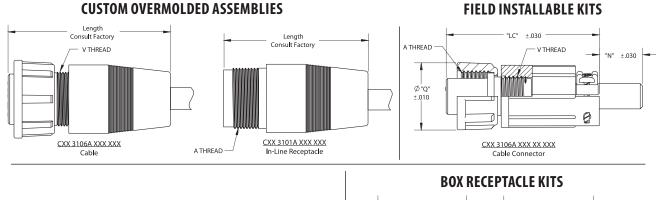
Thermoplastic, Black with UV Inhibitor UL94HB Thermoplastic, Black with UV Inhibitor UL94HB Stainless Steel Elastomer Thermoplastic, Black with UV Inhibitor UL94HB Copper Alloy, Silver Plated, Gold Optional Thermoplastic Thermoplastic Elastomer W, X, Y or Z Consult factory

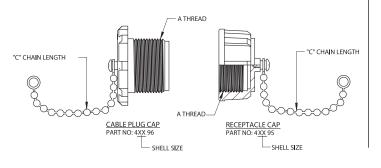
Copper Alloy, Silver Plated, Gold Optional Thermoplastic, Black with UV Inhibitor UL94HB Thermoplastic, Black with UV Inhibitor UL94HB Elastomer W, X, Y or Z Consult factory

2-37 CONTACTS

GASKET

MIL-E-QUAL[®] (MIL-C-5015 EQUIVALENT)





"S" (SQUARE) "LR" "M Ć \bigcirc

∅ 0.120 (Size 10-22) ∅ 0.147 (Size 24-28) "R"

A THREAD CXX 3102A XXX XX XXX Receptacle Connector

Solder Cup or Crimp type

RECOMMENDED PANEL CUT-OUT Tolerance: ±.003

ø"z

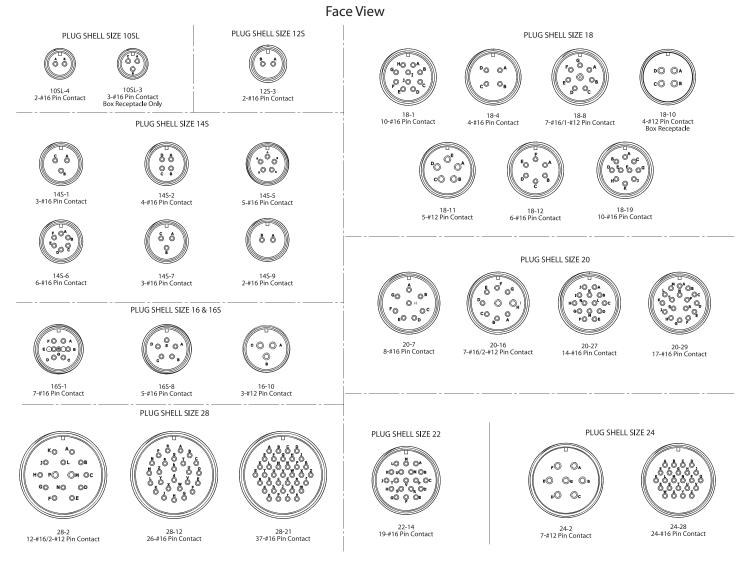
All dimensions are for reference only. Units shown: in[mm].

Connector Size	LC Inch mm	N Inch mm	Q Inch mm	V Fitting Threads	C	Connector Size	A Coupling Threads	C	K	LR	М	R	S	Z
								Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	Inch mm	Inch mm
10SL	1.800 47.7	0.535 13.6	0.825 20.9	1/2-20		10SL	5/8-24	3.5 88.9	0.080 2.0	0.940 23.9	9/16 14.3	25/32 19.8	1.0 25.4	0.635 16.1
125	1.900 48.3	0.535 13.6	0.965 24.1	5/8-24		125	3/4-20	3.5 88.9	0.085 2.2	0.957 24.3	9/16 14.3	13/16 20.6	1-3/32 27.8	0.760 19.3
14S	2.000 50.8	0.553 14.0	1.160 29.5	3/4-20		14S	7/8-20	3.5 88.9	0.090 2.3	1.130 28.7	9/16 14.3	29/32 23.0	1-11/64 29.8	0.885 22.5
16S	2.200 56.0	1.425 36.2	1.250 31.8	7/8-20		165	1-20	3.5 88.9	0.140 3.6	1.170 29.7	19/32 15.1	31/32 24.6	1-9/32 32.5	1.010 25.7
16	2.400 61.0	1.425 36.2	1.320 33.5	7/8-20		16	1-20	3.5 88.9	0.140 3.6	1.360 34.5	3/4 19.0	31/32 24.6	1-9/32 32.5	1.010 25.7
18	2.570 65.3	1.425 36.2	1.435 36.4	1-20		18	1-1/8-18	5.0 127.0	0.140 3.6	1.330 33.8	21/32 16.7	1-1/16 27	1-3/8 34.9	1.135 28.8
20	2.866 72.8	1.445 36.7	1.440 36.6	1-1/8-18		20	1-1/4-18	5.0 127.0	0.142 3.6	1.330 33.8	3/4 19.0	1-5/32 29.4	1-1/2 38.1	1.260 32.0
22	2.892 73.5	1.445 36.7	1.765 44.8	1-1/4-18		22	1-3/8-18	5.0 127.0	0.145 3.7	1.210 30.7	3/4 19.0	1-1/4 31.8	1-5/8 41.3	1.385 35.2
24	2.892 73.5	1.445 36.7	1.765 44.8	1-3/8-18		24	1-1/2-18	6.0 152.4	0.145 3.7	1.220 31.0	13/16 20.6	1-3/8 34.9	1-25/32 45.2	1.510 38.4
28	2.972 75.5	1.440 36.6	2.099 53.3	1-5/8-18		28	1-3/4-18	6.0 152.4	0.145 3.7	1.220 31.0	13/16 20.6	1-9/16 39.7	2.0 50.8	1.760 44.7

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

2-37 CONTACTS

BOX RECEPTACLE / CABLE PLUG / CABLE RECEPTACLE PIN



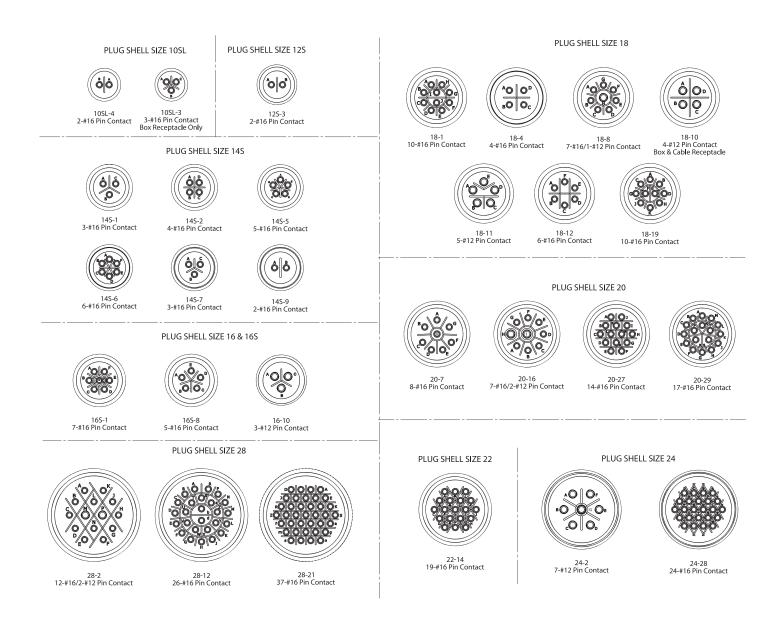
NOTE: Mating face of pin insert shown (socket opposite). Unless otherwise specified, arrangements are per MIL-STD 165L. For alternate key positions, consult factory.

NOTE: *9 contacts: 7-#16/2-#12 cable end, socket only. Panel: pin only.

NOTE: 10SL-4 available in cable end socket and panel mount pin styles only.

2-37 CONTACTS

BOX RECEPTACLE / CABLE PLUG / CABLE RECEPTACLE PIN Wire View



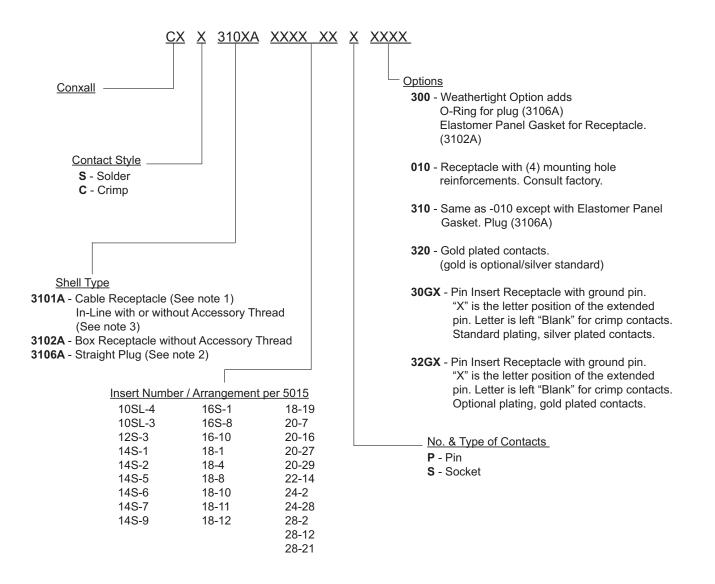
NOTE: Rear face of pin insert shown (socket opposite). Unless otherwise specified, arrangements are per MIL-STD 165L. For alternate key positions, consult factory.

*9 contacts: 7-#16/2-#12 cable end, socket only. Panel: pin only.

MIL-E-QUAL[®] (MIL-C-50 15 EQUIVALENT)

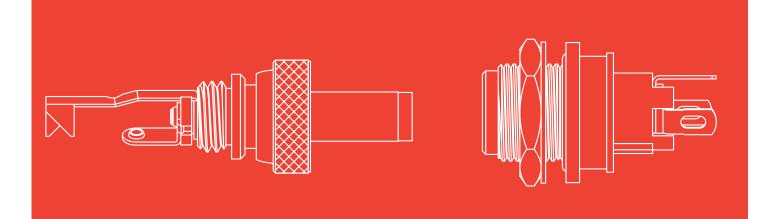
2-37 CONTACTS

PART NUMBER TO ORDER



Complete P/N contains no spaces or dashes. Consult factory for optional colors and materials

- Note 1: All Plugs, Box Mount Receptacles and In-Line Receptacles include Crimp or Solder Contacts specified.
- Note 2: Straight Plugs include Backshell Assembly with Cable Clamp and Bushing.
- Note 3: In-Line Receptacles can be with or without Accessory Thread. Consult factory for availability. In-Line Receptacles without Accessory Thread can be overmolded.



SEALED DC POWER JACKS & PLUGS 0.62" [15мм] OD



SOLDER LUG JACK MATES WITH SEALED POWER PLUGS



STRAIGHT PC TERMINAL JACK MATES WITH SEALED POWER PLUGS



RIGHT ANGLE PC TERMINAL JACK MATES WITH SEALED POWER PLUGS



PLUG MATES WITH SEALED POWER JACKS



J CAP

SPECIFICATIONS

Mechanical Specifications

Life: Vibration: Hex Nut Torque: Coupling Locking Style: Backshell Style:

Electrical Specifications

Voltage Rating: Current Rating: Contact Resistance:

Insulation Resistance:

Environmental Specifications

Operating Temperature Rating: Salt Atmosphere (Corrosion): Thermal Shock: Weathertight:

Material Specifications

Jack Housing: Bushing: Terminals: Insulators: Hardware:

Plug

Plug Sleeve and Pin: Lock Ring: Finger Insulator: Insulating Washer: Sleeve Terminal: Handle:

Сар

Body:

Molded Cable Assemblies

Consult factory for molded options

Accessories

Isolated Mount - P3818: Includes insulating shoulder washer/seal and insulating flat washer.

5000 insertion / withdrawal cycles minimum MIL-STD 202G Method 201A 8-12 in-lb Threaded Coupling Ring Threaded Handle

500V AC max 5A up to 30V DC at 65 °C (149°F) (current carrying only) 0.01 Ω max (Initial) 0.02 Ω (After humidity, durability exposure) 0.10 Ω max(after salt spray) 10,000 M Ω Min (Initial) 1,000 M Ω (After humidity, durability exposure)

-20 °C to +65 °C(-4°F to +149°F) MIL-STD 202G Method 101E MIL-STD 202G Method 107G IP66, IP67 & IP68 / NEMA 250 (6P) (when mated)

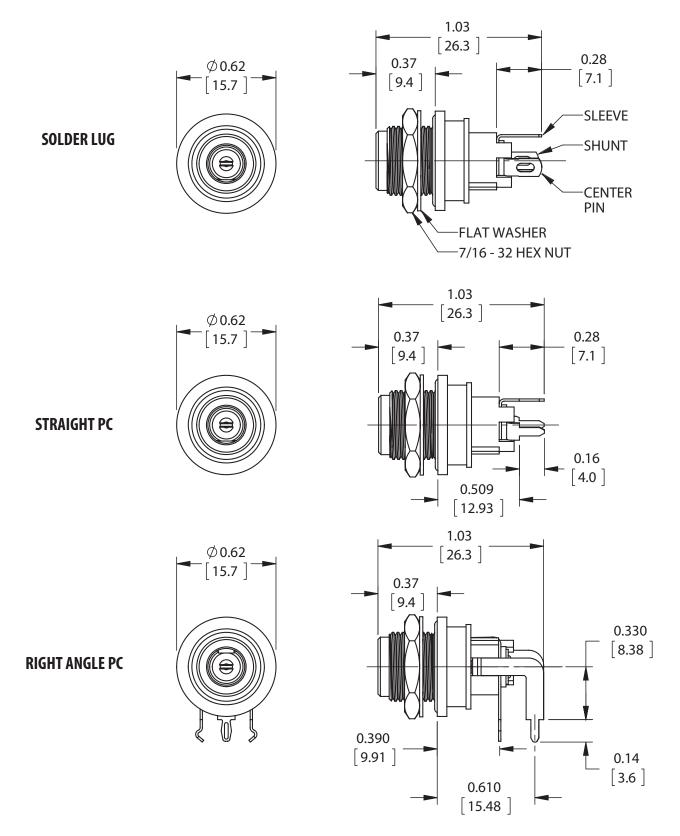
Thermoplastic Plated Copper Alloy Plated Copper Alloy Thermoplastic Supplied with one nickel plated copper alloy hex nut (P1489), one nickel plated steel flat washer (P3031) and one o-ring for sealing jack to panel

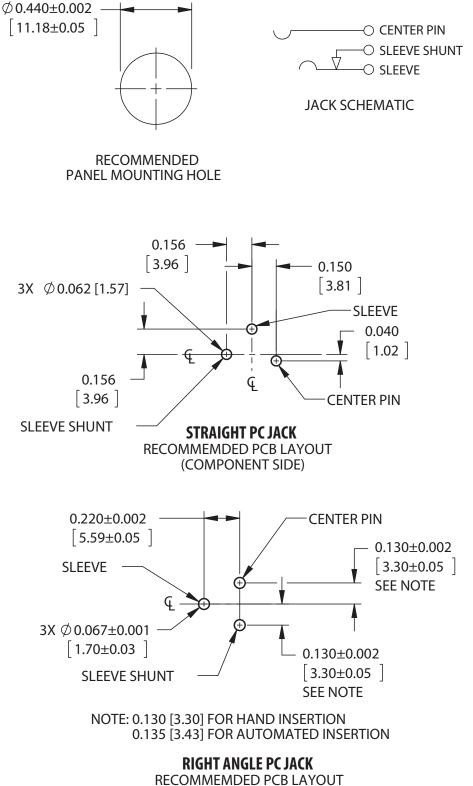
Plated Copper Alloy Plated Copper Alloy Thermoplastic Thermoplastic Tin Plated Copper Alloy Thermoplastic Over molded with Elastomer

Elastomer

0.62" [15mm] OD

0.62" **[**15mm**]** OD

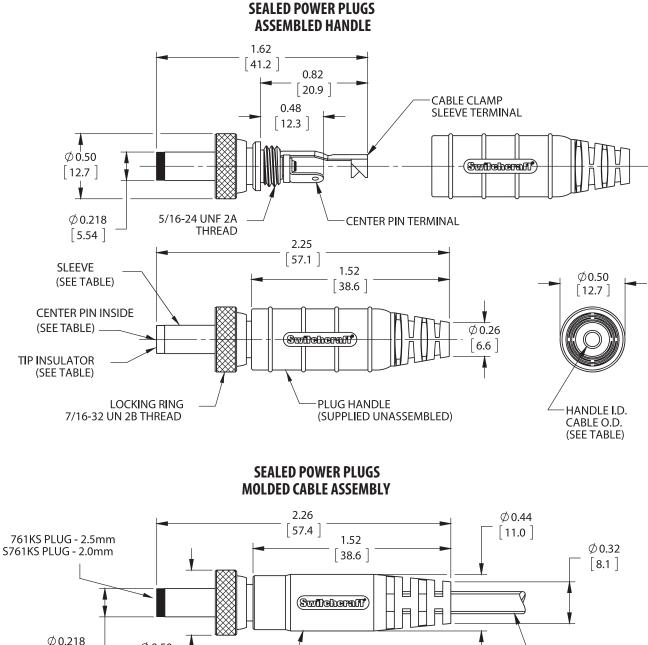




(COMPONENT SIDE)

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

0.62" [15mm] OD



0.62" [15mm] OD

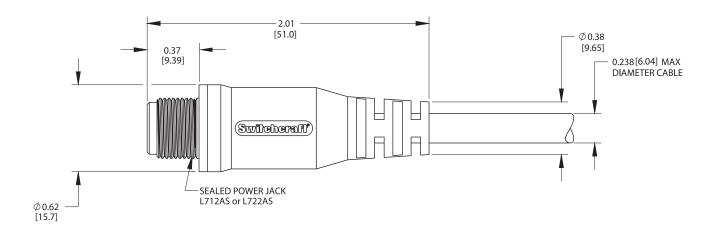
Ø 0.50
Image: Constraint of the second s

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

5.54

BLACK COLOR STANDARD

SEALED POWER JACK MOLDED CABLE ASSEMBLY



PART NUMBER TO ORDER

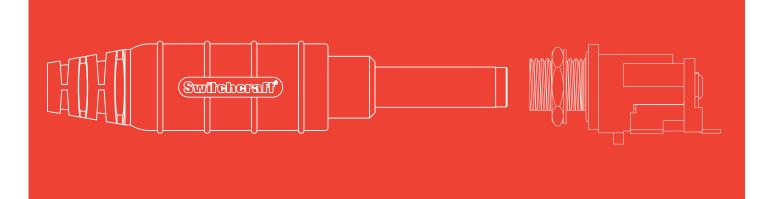
Part Number	Center Pin/ Jack Size	Terminal Type	Mating Power Plug		
L712AS		Solder Lugs			
PCL712AS	0.10 [2.5]	Straight PC	761KS12, 761KS15, 761KS17		
L712RAS		Right Angle PC			
L722AS		Solder Lugs			
PCL722AS	0.08 [2.0]	Straight PC	S761KS12, S761KS15, S761KS17,		
L722RAS		Right Angle PC			
JCAP	ICAP Power Jack Seal Cap				

Part Number	Center Pin ID/ Jack Size	Tip Insulator Color	Cable Nominal O.D. Range	Mating Power Plug
761KS12		Black	0.125-0.150 [3.2-3.8mm]	
761KS15	0.10 [2.5]	Black	0.150-0.175 [3.8-4.4mm]	L712AS, L712RAS, PCL712AS
761KS17		Black	0.175-0.200 [4.4-5.1mm]	
S761KS12		White	0.125-0.150 [3.2-3.8mm]	
S761KS15	0.08 [2.0]	White	0.150-0.175 [3.8-4.4mm]	L722AS, L722RAS, PCL722AS
S761KS17		White	0.175-0.200 [4.4-5.1mm]	

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

SWITCHCRAFT.COM • SALES@SWITCHCRAFT.COM • 5555 N ELSTON AVENUE, CHICAGO, IL 60630 • 773 792 2700 Please check our website for the most up-to-date product specifications.

0.62" [15mm] OD





RIGHT ANGLE HIGH AMPERAGE POWER JACK - PC MOUNT



RIGHT ANGLE HIGH AMPERAGE POWER JACK - SMT MOUNT



RIGHT ANGLE HIGH AMPERAGE POWER JACK - HYBRID MOUNT



HIGH AMPERAGE POWER PLUG - SEALED LOCKING



HIGH AMPERAGE POWER PLUG - NON SEALED LOCKING



HIGH AMPERAGE POWER PLUG - NON SEALED NON LOCKING

SPECIFICATIONS

Mechanical Specifications

Life: Vibration: Operating Forces: Panel Mounting Torque:

Electrical Specifications

Voltage Rating: Current Rating: Insulation Resistance: Contact Resistance (initial):

Environmental Specifications

Operating Temperature Rating: Moisture Resistance Insulation Resistance Thermal Shock: Salt Atmosphere (Corrosion): Weathertight Ratings:

Material Specifications - Jacks

Housing, Cover (insulators): Mounting Bushing, Hex Nut: Flat Washer: O-Ring: Center Pin: Center Pin: Center Pin Terminal & Shunt Terminals: Sleeve Spring Terminal:

Material Specifications - Plugs

Plug Barrel (Sleeve): Coupling Ring: Metal Handle: Rubber Seal Handle: O-Ring: Center Contact (Tip): Tip & Sleeve Terminals: Tip Insulator: Terminal Insulator: Tubular Insulator: 5000 insertion/withdrawal cycles minimum Mil-Std 202G Method 201A (Locking Only) 5 lb maximum insertion. 0.5 lb minimum withdrawal 8-10 in-lb

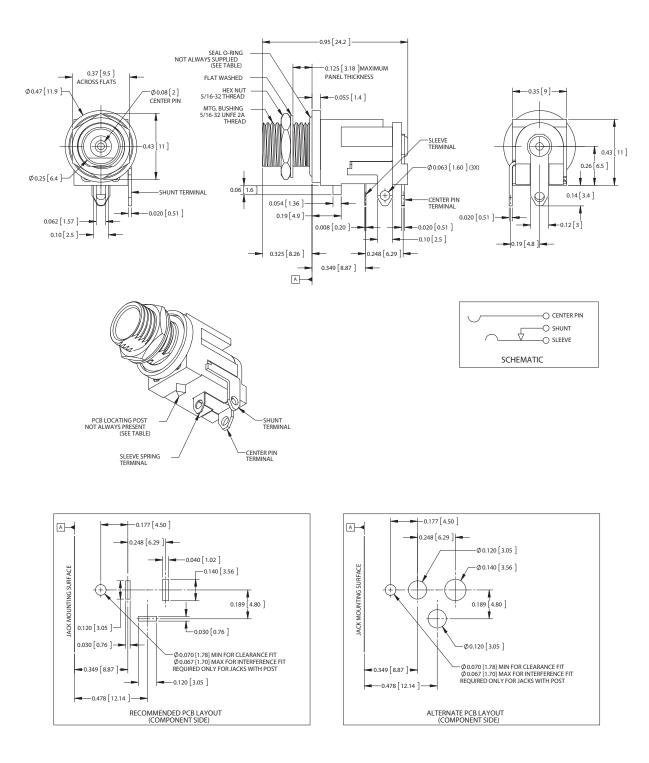
24 V AC/DC See page 88 for Electrical Current Rating Chart 1000M Ω min 15 m Ω max

-40 °C to +105 °C(-40°F to +221°F) MIL-STD 202G Method 106G **(Sealed Only)** MIL-STD 202G Method 302 Condition B MIL-STD 202G Method 107G MIL-STD 202G Method 101E Condition B **(Sealed Only)** IP66, IP67, IP68, NEMA 250 (6p) when mated **(Sealed Only)**

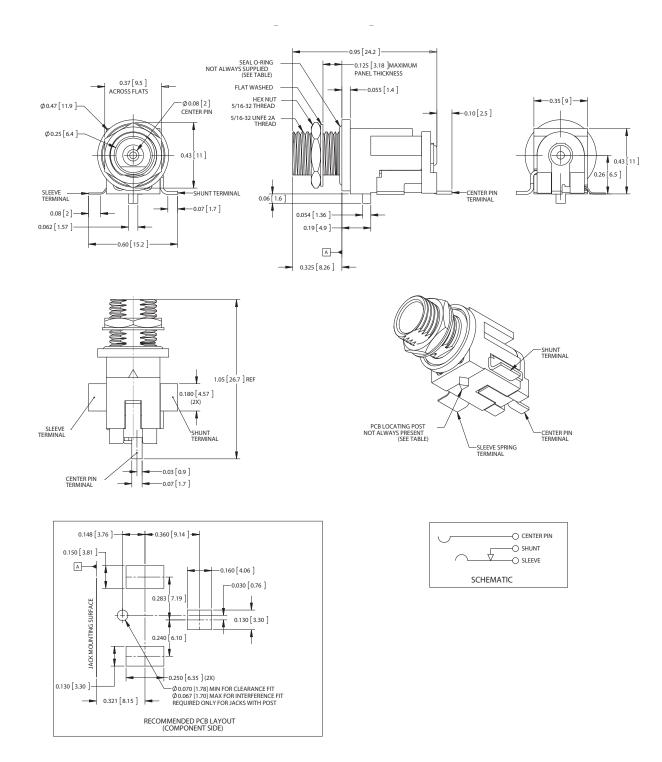
Thermoplastic, Black Copper Alloy, Nickel Plated Steel, Nickel Plated Elastomer, Black Copper Alloy, Nickel Plated Copper Alloy, Silver or Matte Tin Plated Spring Copper Alloy, Silver or Matte Tin Plated

Copper Alloy, Nickel Plated Copper Alloy, Nickel Plated Black Elastomer over Metal Handle Elastomer, Black Copper Alloy, Silver Plated Copper Alloy, Tin Plated Thermoplastic, Blue Epoxy Glass FR4 Mylar

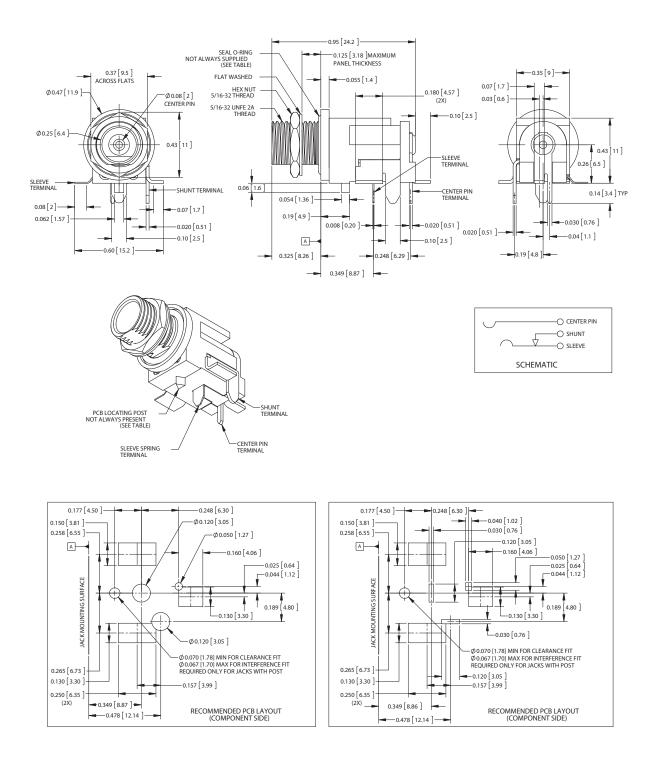
PC-MOUNT HIGH AMPERAGE POWER JACKS



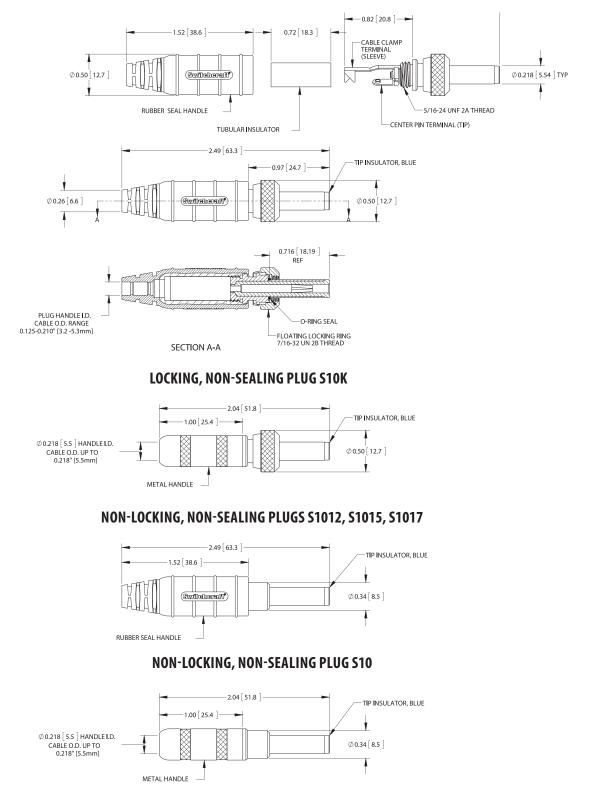
SMT-MOUNT HIGH AMPERAGE POWER JACKS



HYBRID-MOUNT HIGH AMPERAGE POWER JACKS



LOCKING AND SEALED PLUGS S10KS12, S10KS15, S10KS17



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

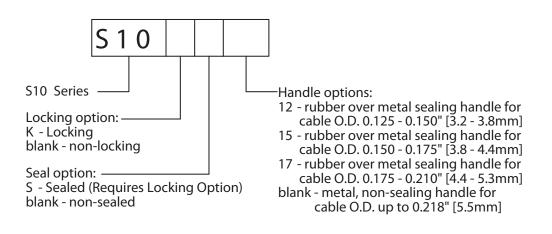
SWITCHCRAFT.COM • SALES@SWITCHCRAFT.COM • 5555 N ELSTON AVENUE, CHICAGO, IL 60630 • 773 792 2700 Please check our website for the most up-to-date product specifications.

CURRENT RATING TABLE

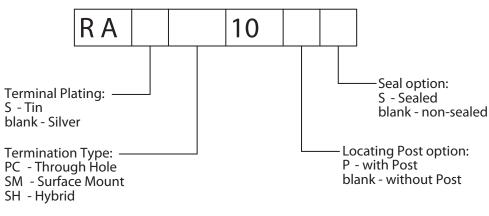
Jack Terminal	Wire	Current Rating (A) at Operating Temperature (°C)						
Plating	(awg)	55°C max	65°C max	75°C max	85°C max	95°C max	105°C max	
	16	11	10	9.5	9	7.5	6	
Silver	18	9.5	9	8	7	5.5	5	
	20	9	8	6.5	6	5	4	
	16	11	10	9	8	7	5.5	
Tin	18	9.5	9	8	7	5.5	5	
	20	8.5	8	6.5	5.5	5	4	

Note: DC Power Plugs & Jacks are for current carry only. Switching Power Jack on-off under resistive load is not recommended. The circuitry on-off switch should be off before connecting or disconnecting the Power Plug to Jack. For electrical life limitations under resistive load, consult factory.

HIGH AMPERAGE POWER PLUG ORDERING CODE:



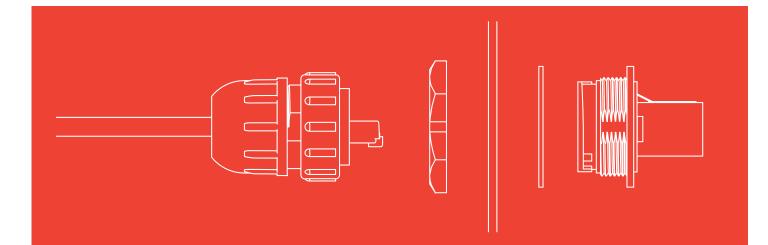
HIGH AMPERAGE POWER JACK ORDERING CODE:



Notes:

1. Standard packaging is bulk. Contact factory for tube or tape & reel packaging options.

2. Tin plating currently not available for the hybrid (SH) termination option.



1.44" [37_{MM}] OD



QUICK CONNECT CABLE END MATES WITH PANEL MOUNT



SHIELDED PANEL MOUNT MATES WITH CABLE END



REAR VIEW-RIGHT ANGLE IDC TERMINATION



THREADED CABLE END MATES WITH PANEL MOUNT



REAR VIEW FEED-THRU TERMINATION



PANEL MOUNT MATES WITH CABLE END



REAR VIEW STRAIGHT IDC TERMINATION



MOLDED CABLE ASSEMBLY

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

SPECIFICATIONS

Manufacturers Identifications

Life: Vibration: Hex Nut Torque: Coupling Locking Style:

Backshell Style:

Electrical Specifications

Voltage Rating: Current Rating: Contact Resistance: Insulation Resistance:

Environmental Specifications

Operating Temperature Rating: Insulation Resistance: Thermal Shock: Weathertight:

Product Ratings:

Material Specifications

Field Installable Plug Assembly:

Sealing Nut, Coupling Ring: Plug Housing, Insert: Sealing Ring: O-Ring:

RJ45 Plug:

Insulator: Contacts: Shield (Shielded Option Only):

Panel Housing Jack Assembly:

Panel Housing, Hex Nut: Gasket:

RJ45 Jack:

Housing: Contacts: Printed Circuit Board (PCB): IDC Contacts:

Molded Cable Assemblies: Consult factory for molded options

Other Flame Rating: Recommended Panel Thickness:

Recommended Cable Type Conductor Type: Outer Cable O.D. Range: Conductor insulator O.D. Range:

750 insertion / withdrawal cycles minimum Mil-Std 202G Method 201A 10-12 in-lb Quick Connect (Bayonet) Threaded Threaded

1000V DC 1.5 A 20 mΩ max 500 MΩ min

-10 °C to +60 °C (+14°F to +140°F) Mil-Std 202G Method 302G Mil-Std 202G Method 107G IP67 & IP68, NEMA 250 (6P) (when mated)

RJ45 Cable Plug (Category 6):TIA/EIA 568 C.2RJ45 Panel Jack (Category 5e & 6):TIA/EIA 568 B.2

Thermoplastic Thermoplastic Elastomer Elastomer

Thermoplastic Copper Alloy, Gold Plated Copper Alloy, Tin Plated

Thermoplastic Elastomer

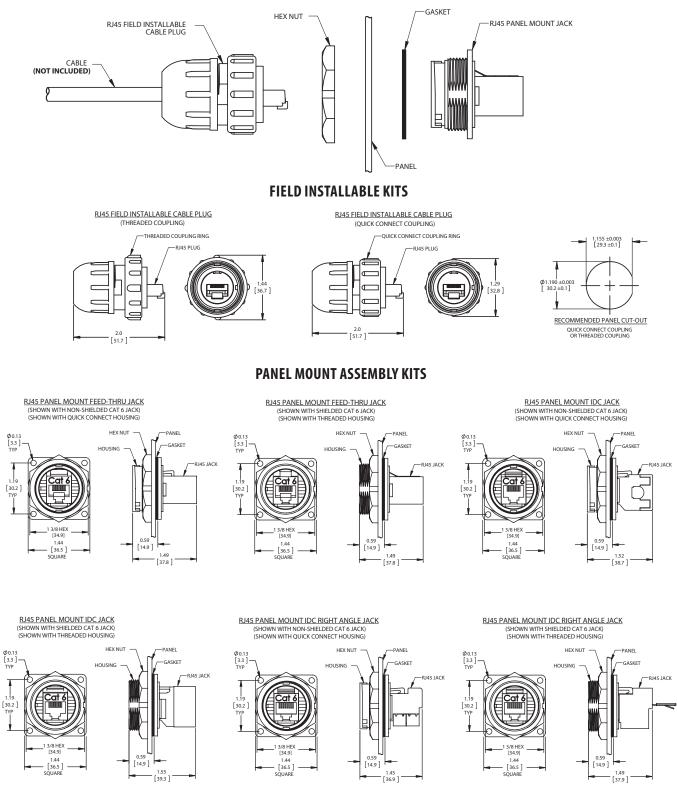
Thermoplastic Copper Alloy, Gold Plated FR-4 Copper Alloy, Tin Plated

UL 94V-0 1/32" to 3/16" [0.8mm to 4.8mm] - Quick Connect Coupling 1/32" to 5/32" [0.8mm to 3.9mm] - Threaded Coupling

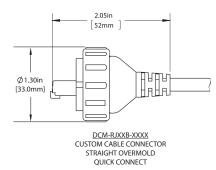
Solid or Stranded Conductors Ø0.190" - Ø0.250" [4.83mm to 6.35mm] Ø0.037" - Ø0.042" [0.94mm to 1.06mm] 1.44" [37_{MM}] OD

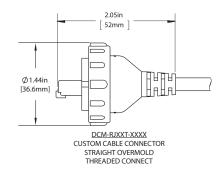
DATA-CON-X®: RJ45 WEATHERTIGHT CONNECTORS

1.44" [37mm] OD



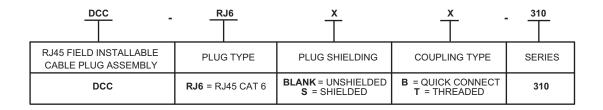
CUSTOM MOLDED CABLE ASSEMBLIES



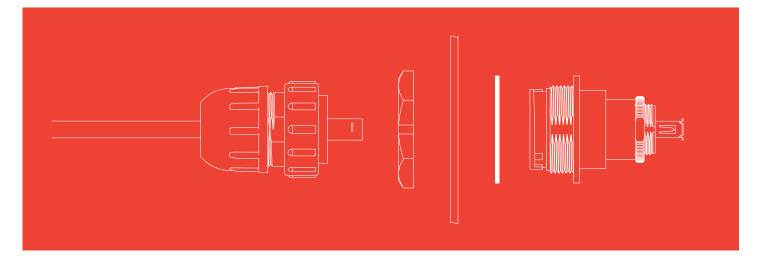


1.44" **[**37мм] OD

PART NUMBER TO ORDER



	xxx	×	×	- <u>*x</u>
RJ45 FIELD INSTALLABLE PANEL HOUSING ASSEMBLY	JACK TYPE	JACK SHIELDING	COUPLING TYPE	SERIES
DCP	RJ5 = RJ45 CAT 5e RJ6 = RJ45 CAT 6	BLANK = UNSHIELDED S = SHIELDED	<pre>B = QUICK CONNECT T = THREADED</pre>	F = FEED-THRU (TO SAME CONNECTOR) SD = IDC, STRAIGHT RD = IDC, RIGHT ANGLE



USB A & B WEATHERTIGHT CONNECTORS 1.44" [37mm] OD



CABLE END - USB A OUICK CONNECT MATES WITH PANEL MOUNT MATES WITH PANEL MOUNT



CABLE END - USB A THREADED CONNECT



CABLE END - USB B OUICK CONNECT MATES WITH PANEL MOUNT



CABLE END - USB B THREADED CONNECT MATES WITH PANEL MOUNT



PANEL MOUNT - USB A OUICK CONNECT MATES WITH CABLE END



PANEL MOUNT - USB A THREADED CONNECT MATES WITH CABLE END



PANEL MOUNT - USB B OUICK CONNECT MATES WITH CABLE END



PANEL MOUNT - USB B THREADED CONNECT MATES WITH CABLE END

USB A & B WEATHERTIGHT CONNECTORS 1.44" [37mm] OD

SPECIFICATIONS

Mechanical Specifications

Life: Hex Nut Torque: Coupling Locking Style: Backshell Style:

Electrical Specifications

Current Rating: Voltage Rating: Contact Resistance: Insulation Resistance: Dielectric Withstanding Voltage:

Environmental Specifications

Operating Temperature Rating: Storage Temperature: Moisture Resistance: Insulation Resistance: Vibration: Thermal Shock: Weathertight: Salt Spray: Product Ratings:

Material Specifications

Plug Nut, Coupling Ring: Plug Housing, Insert: Sealing Ring, O-Ring: Panel Housing, Hex Nut: Retaining Nut: Gasket: **USB A or B Plug:** Shell: Contacts: Insulator: **USB A Receptacle:** Shell: Contacts: Insulator: **USB B Receptacle:** Shell: Contacts: Insulator:

Molded Cable Assemblies

Other Flame Rating: Recommended Panel Thickness:

Recommended Cable Type Conductor Type: Outer Cable O.D. Range:

350 insertion/withdrawal cycles minimum 10-12 in-lb max Quick Connect (Bayonet) or Threaded Threaded Nut-Squeezed Grommet

1.5 A Per USB 2.0 standard 30 m Ω max 1000 M Ω min 500 V AC/one minute

0 °C to +50 °C (+32°F to +122°F) -20 °C to +60 °C (-4°F to +140°F) Mil-Std 202G Method 106G Mil-Std 202G Method 302 Mil-Std 202G Method 201A Mil-Std 202G Method 107G IP67 & IP68, NEMA 250 (6P) (when mated) Mil-Std 202G Method 101E Tested per USB 2.0

Thermoplastic Thermoplastic Elastomer Thermoplastic Copper Alloy, Nickel Plated Elastomer

Steel, Nickel Plated Copper Alloy, Gold Plated Thermoplastic UL94V-0, White

Steel, Nickel Plated Copper Alloy, Gold Plated Thermoplastic UL94V-0, White

Copper Alloy, Nickel Plated Copper Alloy, Gold Plated Thermoplastic UL94V-0, White

Consult factory for molded options

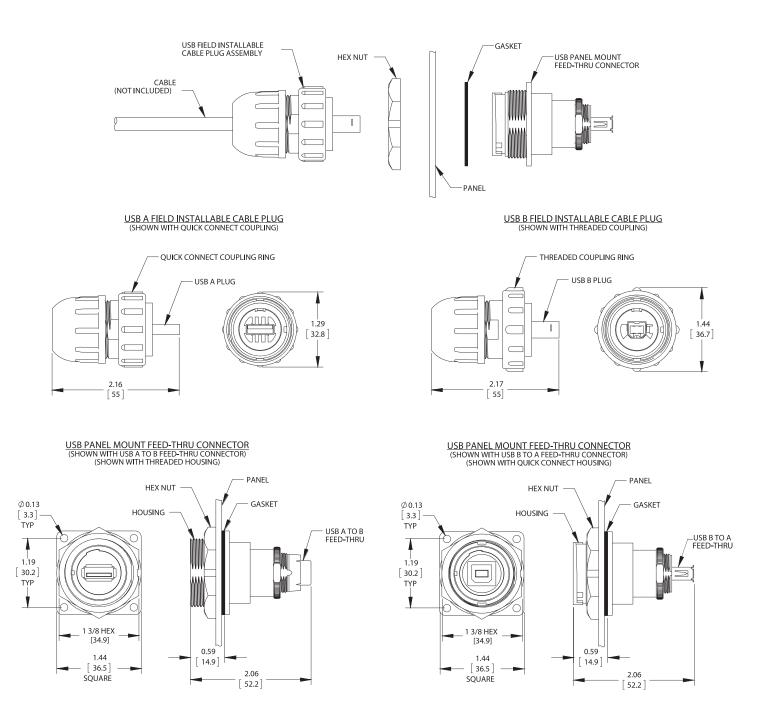
UL 94V-0 1/32" - 3/16" [0.8mm to 4.8mm] - Quick Connect Coupling 1/32" - 5/32" [0.8mm to 3.9mm] - Threaded Coupling

Solid or Stranded Conductors Product 150 Series: 0.134"-0.170" [3.40mm-4.33mm] Product 180 Series: 0.171"-0.208" [4.34mm-5.28mm]

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

USBA&BWEATHERTIGHT CONNECTORS <u>1.44</u>" [37_{MM}] OD

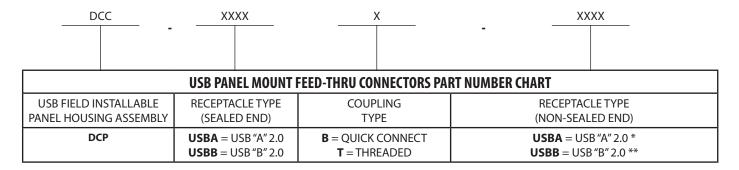
DATA-CON-X®:USB A & B WEATHERTIGHT CONNECTORS



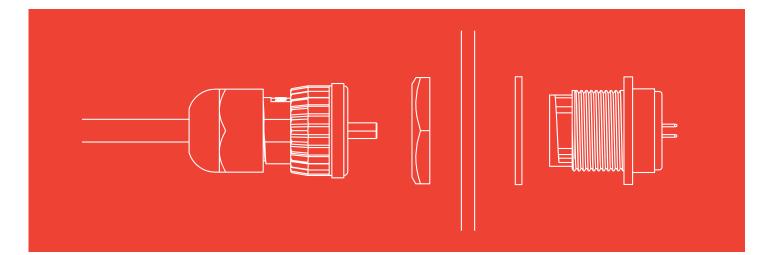
USBA&BWEATHERTIGHT CONNECTORS <u>1.44</u>["] [37_{MM}] OD

PART NUMBER TO ORDER

DCC	X>	XXXX X		X	XX
	USB FIEL	D INSTALLABLE CAB	LE PLUG PART NUM	ABER CHART	
USB FIELD INSTALI CABLE PLUG ASSE		.UG /PE	COUPLING TYPE	SER	IES
DCC			QUICK CONNECT = THREADED	150 = Ø0.134"-0.12 180 = Ø0.171"-0.20	



*(NOT AVAILABLE WITH USBA ON SEALED END) ** (NOT AVAILABLE WITH USBB ON SEALED END)



0.71" **[**18_{MM}**]** OD



QUICK CONNECT CABLE END MATES WITH PANEL MOUNT



PANEL MOUNT MATES WITH CABLE END



REAR VIEW - PC TAIL



REAR VIEW - FEED-THRU TERMINATION



REAR VIEW - SOLDER HOLES

SPECIFICATIONS

Mechanical Specifications

Life: Vibration: Hex Nut Torque: Coupling Locking Style: Backshell Style:

Electrical Specifications Tested Per USB 2.0 Specifications

Environmental Specifications

Operating Temperature Rating: Moisture Resistance: Insulation Resistance: Thermal Shock: Weathertight:

Material Specifications

Plug Nut, Coupling Nut: Plug Housing, Insert: Sealing Ring, O-Ring: Panel Housing, Hex Nut: Gasket: Printed Circuit Board (PCB):

Header:

Insulator: Contacts:

USB Mini-B Plug:

Insulator: Contacts: Metal Shield:

USB Mini-B Receptacle:

Insulator: Contacts: Metal Shield:

Molded Cable Assemblies

Consult factory for molded options

Other

Recommended Cable O.D. Range: Recommended Panel Thickness: 500 insertion / withdrawal cycles minimum Mil-Std 202G Method 201A 10-12 in-Ib Quick Connect (Bayonet) Threaded

-20 °C to +75 °C(-4°F to +167°F) Mil-Std 202G method 106G Mil-Std 202G Method 302G Mil-Std 202G Method 107G IP67 & IP68, NEMA 250 (6P) (when mated)

Thermoplastic Thermoplastic Elastomer Thermoplastic Elastomer FR-4

Thermoplastic UL94V-0, Black Copper Alloy, Gold Plated

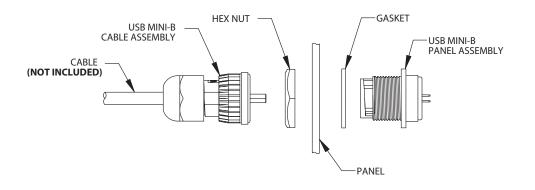
Thermoplastic UL94V-0, Black Copper Alloy, Gold Plated (Contact Area) Steel, Tin Plated

Thermoplastic UL94V-0, Black Copper Alloy, Gold Plated (Contact Area) Copper Alloy, Nickel Plated

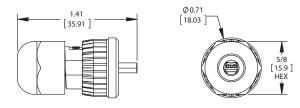
Ø0.161"-Ø0.181" [4.1mm-4.6mm] Ø0.031"-Ø0.187" [0.8mm-4.8mm] 0.71" [18_{MM}] OD

DATA-CON-X®: SEALED MINI USB CONNECTORS

0.71" **[**18_{MM}**]** OD



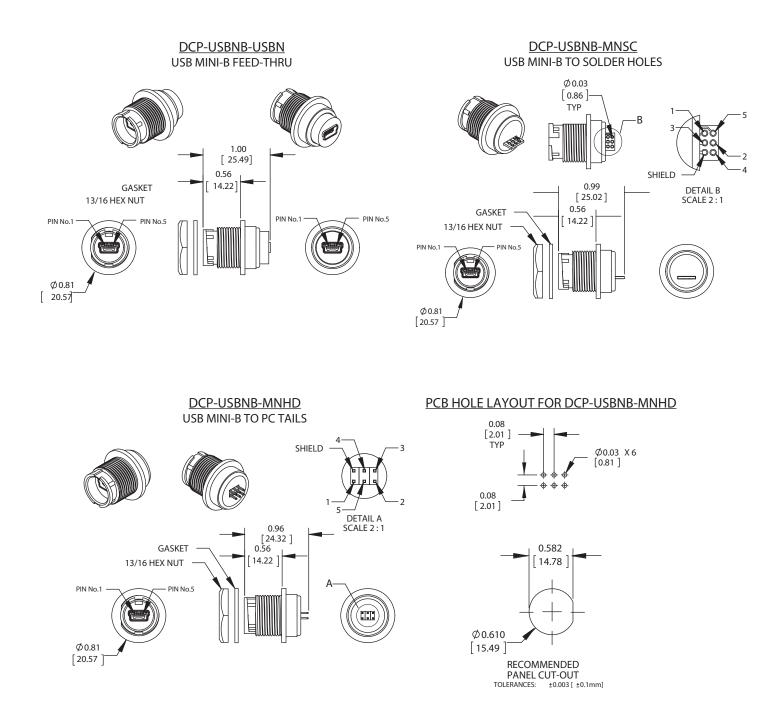
DCC-USBNB-160 USB MINI-B CABLE PLUG FIELD INSTALLABLE



PART NUMBER TO ORDER

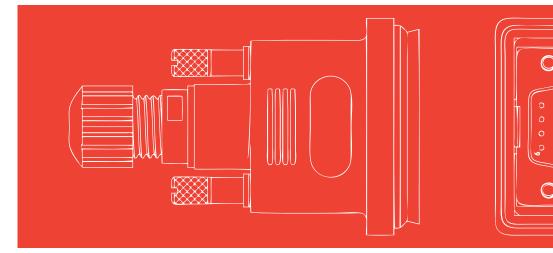
Part Number	Style	Description
DCC-USBNB-160	Plug	Field Installable Cable Plug
DCP-USBNB-MNHD	Receptacle	Panel Mount: USB Mini-B to PC Tails
DCP-USBNB-MNSC	Receptacle	Panel Mount: USB Mini-B to Solder Holes
DCP-USBNB-USBN	Receptacle	Panel Mount: USB Mini-B Feed-thru

PANEL MOUNT ASSEMBLY KITS



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

0.71" **[**18_{MM}**]** OD



SEALED D-SUB CONNECTORS

9 OR 15 CONTACTS



9 PIN STANDARD CABLE MOUNT-SOCKET MATES WITH PANEL MOUNT



9 PIN STANDARD CABLE MOUNT-PIN MATES WITH PANEL MOUNT



9 PIN STANDARD PANEL MOUNT MATES WITH CABLE MOUNT



15 PIN HIGH DENSITY CABLE MOUNT-SOCKET MATES WITH PANEL MOUNT



15 PIN HIGH DENSITY CABLE MOUNT-PIN MATES WITH PANEL MOUNT



15 PIN HIGH DENSITY PANEL MOUNT MATES WITH CABLE MOUNT



CAP FOR PANEL MOUNT P/N DBSCAP

SEALED D-SUB CONNECTORS

9 OR 15 CONTACTS

SPECIFICATIONS

Mechanical Specifications

Life: Coupling Locking Style: Backshell Style:

Electrical Specifications

Voltage Rating: Current Rating:

Contact Resistance: Insulation Resistance:

Environmental Specifications

Operating Temperature Rating: Thermal Shock: Weathertight:

Material Specifications D-Sub Backshell Kit

Housing, Clamp, & Nut: Insulator: Gasket & Seal: Shell: Screw: Contact Pins:

D-Sub Panel Mount Connector

Flange & Insulator: Shell: Epoxy: O-Ring: Screw: Contact Pin:

D-Sub Connector Cap

Body: Gasket & O-ring: Screw: Chain:

Other

Flame Rating: Recommended Panel Thickness:

Recommended Cable Type

Conductor Type: Outer Cable O.D. Range: 500 insertion / withdrawal cycles minimum Standard Jackscrew Threaded

1000V AC for 1 Minute 5.0A- Standard D-Sub (9 Contacts) 2.0A- High Density D-Sub (15 Contacts) 25 m Ω max 500M Ω at

-55 °C to +85 °C(-67°F to +185°F) MIL-STD 202G Method 107G, Condition A IP67 (when mated)

Thermoplastic, Black Thermoplastic (UL94V-0) Elastomer, Black Steel, Tin Plated Copper Alloy, Nickel Plated Copper Alloy, Gold Plated

Thermoplastic (UL94V-0) Steel, Tin Plated Epoxy, Black Elastomer, Light Blue Copper Alloy, Nickel Plated Copper Alloy, Gold Plated

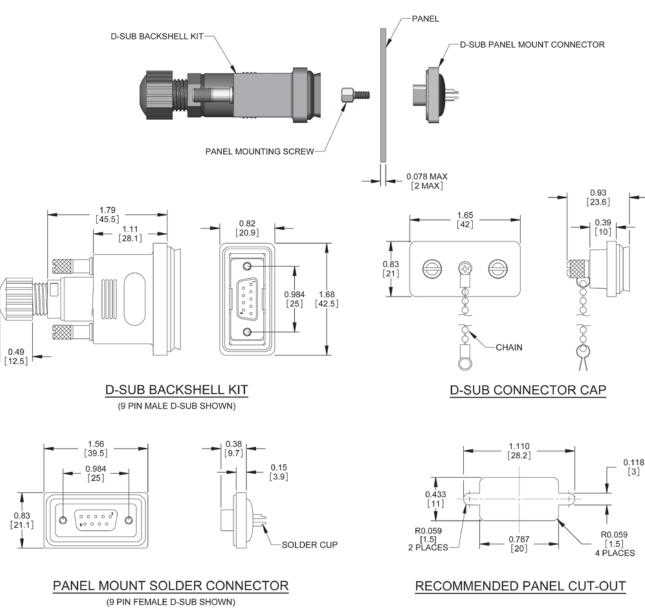
Thermoplastic, Black Elastomer, Black Copper Alloy, Nickel Plated Stainless Steel

UL 94V-0 0.048" - 0.078" [1.22mm to 1.98mm]

Solid or Stranded Conductors, 22-26 AWG Ø0.138" - Ø0.276" [3.51mm to 7.01mm]

9 OR 15 CONTACTS

SEALED D-SUB CONNECTORS

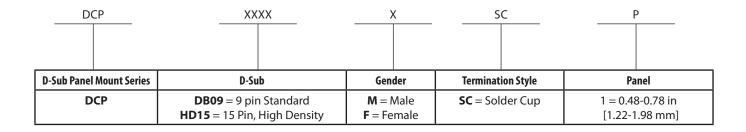


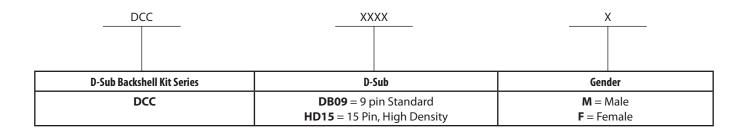
DATA-CON-X®: SEALED D-SUB

SEALED D-SUB CONNECTORS

9 OR 15 CONTACTS

PART NUMBER TO ORDER





MOLDED CABLE ASSEMBLY CHECKLIST

CUSTOMER INFORMATION

Company:		Date:
Contact Name:	Email:	Phone:
Address:		
City, State, Zip, Country:		
	PROJECT INFO	RMATION
Project Name:		Quantity requested to quote:
	CONNECTOR REQ	UIREMENTS
End "A" Part Number:		ls right angle required? (Y/N):
End "B" Part Number:		
If single ended cable, how should "B" side	e be terminated?	
Yes No		
Strip	o & Tin (S&T)	
Star	dard 1/4" outer jacket, ⁻	1/8″ inner jacket
Stra	ight cut-off (SCO)	
Oth	er (Please specify)	
Please note some insulation may be rem	oved for quality control	·
	CABLE REQUI	REMENTS
Cable vendor & P/N:		
If cable vendor is known, is equivalent ca	ble acceptable? (Y/N):	
UL # of cable (if applicable):		
Outer cable jacket material (PUR, PVC, Ot	her):	
Outer cable jacket color (Black, Grey, Oth	er):	
Number of conductors:	Cond	uctor AWG:
Is cable shielded? If yes, what type of shie	eld (foil, braided, etc.):	
Is there a drain wire (Y/N):	If ye	s, where terminated?:
Overall length of assembly. Determined l	by connector ends. Plea	se specify units:
Does cable have any environment require	ements? (Temperature,	UV, other):
Is an adhesive moisture bond to the oute	er jacket of the cable req	uired? (Y/N):
Comments / Special Notes:		

NOTE: Please submit completed form and drawing (if available) by fax to 630-834-8540 or email: sales@switchcraft.com. If a single ended assembly is requested, a diagram of the wire color code illustrating the conductors and the corresponding contact position is required. Also show drain wire and shield terminators if applicable. We thank you for giving us the opportunity to quote your cable assembly requirements. MADE IN USA.

CON-X® ELECTRICAL CURRENT RATING CHART

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
	#12	1 through 7	23.0A
		1 through 3	17.0A
#12	#14	4 through 6	12.75A
		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
		1 through 3	6.0A
	#22	4 through 20	2.5A
		21 through 31	2.5A
		1 through 3	4.5A
	#24	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

CONXALL.COM • SALES@CONXALL.COM • 601 E WILDWOOD, VILLA PARK, IL 60181 • 630 834 7504 Please check our website for the most up-to-date product specifications.

MIL-E-QUAL[®] ELECTRICAL CURRENT RATING CHART

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
-		1 through 3	23.0A
	#12	4 through 6	17.0A
		7 through 9	13.0A
		1 through 3	17.0A
#12	#14	4 through 6	12.75A
		7 through 9	11.0A
		1 through 3	13.0A
	#16	4 through 6	9.75A
		7 through 9	8.45A
		1 through 3	13.0A
		4 through 6	9.75A
	#16	7 through 10	8.45A
		10 through 20	5.85A
		21 through 30	4.55A
		31 and up	3.9A
		1 through 3	10.0A
line c		4 through 6	7.5A
#16	#10	7 through 9	6.5A
	#18	10 through 20	4.5A
		21 through 30	3.5A
		31 and up	3.0A
		1 through 3	7.5A
		4 through 6	5.6A
	#20	7 through 9	4.8A
	#20	10 through 20	3.4A
		21 through 30	2.62A
		31 and up	2.3A

EN2 ⁸ EN3[®] ELECTRICAL CURRENT RATING CHART

EN2 SERIES CURRENT RATING TABLE

CONTACTS	WIRE (AWG)	CURRENT RATING (A) AT OPERATING TEMPERATURE (°C)					
		45°C MAX	55°C MAX	65°C MAX	75°C MAX	85°C MAX	
	20	7	6	5	4	3.5	
	22	5.5	5	4	3	2.5	
2 #20	24	5.5	5	4	3	2.5	
	26	4	3.5	2.5	2	1	
	20	6.5	5.5	4.5	3.5	2	
	22	5	4.5	3.5	3	1.5	
3 #20	24	5	4.5	3.5	3	1.5	
	26	3	2.5	2	1.5	0.5	
	20	5	4.5	3.5	3	1.5	
	22	4.5	4	3	2	1	
4 #22	24	4.5	4	3	2	1	
	26	3	2.5	2	1.5	0.5	
	26	3	2.5	2	1.5	1	
5-7 #26	28	2.5	2	1.5	1	0.5	
	30	2	1.5	1	0.5	0.5	

EN3®SERIES CURRENT RATING TABLE

CONTACT SIZE	CONDUCTOR SIZE - AWG	NUMBER OF CONDUCTORS	CURRENT RATING
#16	16	2 through 3	13.0A
	18		
	20	2 through 6	7.5A
#20	22		
	20	7 through 8	6.5A
	22		
#26	26	9 through 18	3A
	28		

CON-X® MANUAL CONTACT CRIMPING TOOL

Handle	Description	Positioner	Contact Sizes	Wire Sizes	Conductor Strip Length
359-24	Multi Contact Turret Crimp Tool	357-124	#12	12-14 AWG	7/32 in
			#16	16-18-20 AWG	7/32 in
			#20	20-22-24 AWG	3/16 in
		357-122	#20	20-22-24 AWG	3/16 in
359-21	Single Contact Crimp Tool	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
	Single Contact Hand Tool	356-12	#12
		356-16	#16
		356-20	#20
356-1		356-22	#22 (20 AWG Crimp Barrel)
		356-22-1-K	#22 (22 AWG Crimp Barrel)
		356-26-К	#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

EN2 & EN3[®] CONTACT CRIMPING TOOL

Handle	Description	Positioner	Contact Sizes	Wire Sizes
	Crimp Hand Tool	EN3POS16	#16	16 AWG
EN3CR		EN3POS20	#20	20 & 22 AWG
		EN3POS26	#26	26, 28 & 30 AWG
		EN3POS16	#16	16 AWG
EN3CRAUTO	Pneumatic Crimp Tool	EN3POS20	#20	20 & 22 AWG
ENSCRAUTO		EN3POS26	#26	26, 28 & 30 AWG

EN2 & EN3® INSERTION / EXTRACTION TOOLS

Part Number	Contact Sizes	Description
EN3INS16	#16	Insertion / Extraction Tool for 16 AWG
EN3INS20	#20, #22	Insertion / Extraction Tool for 20 & 22 AWG
EN3INS26	#26	Insertion / Extraction Tool for 26, 28 & 30 AWG

EN2 & EN3® ALTERNATE LARGER FRAME TOOL

Handle	Description	Positioner	Contact Sizes	Wire Sizes
	Hand Tool			
EN2CRL				
		EN2POS20L	#20, #22	20-22-24-26 AWG
EN2CRAUTOL	Pneumatic Tool			

NOTES



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.