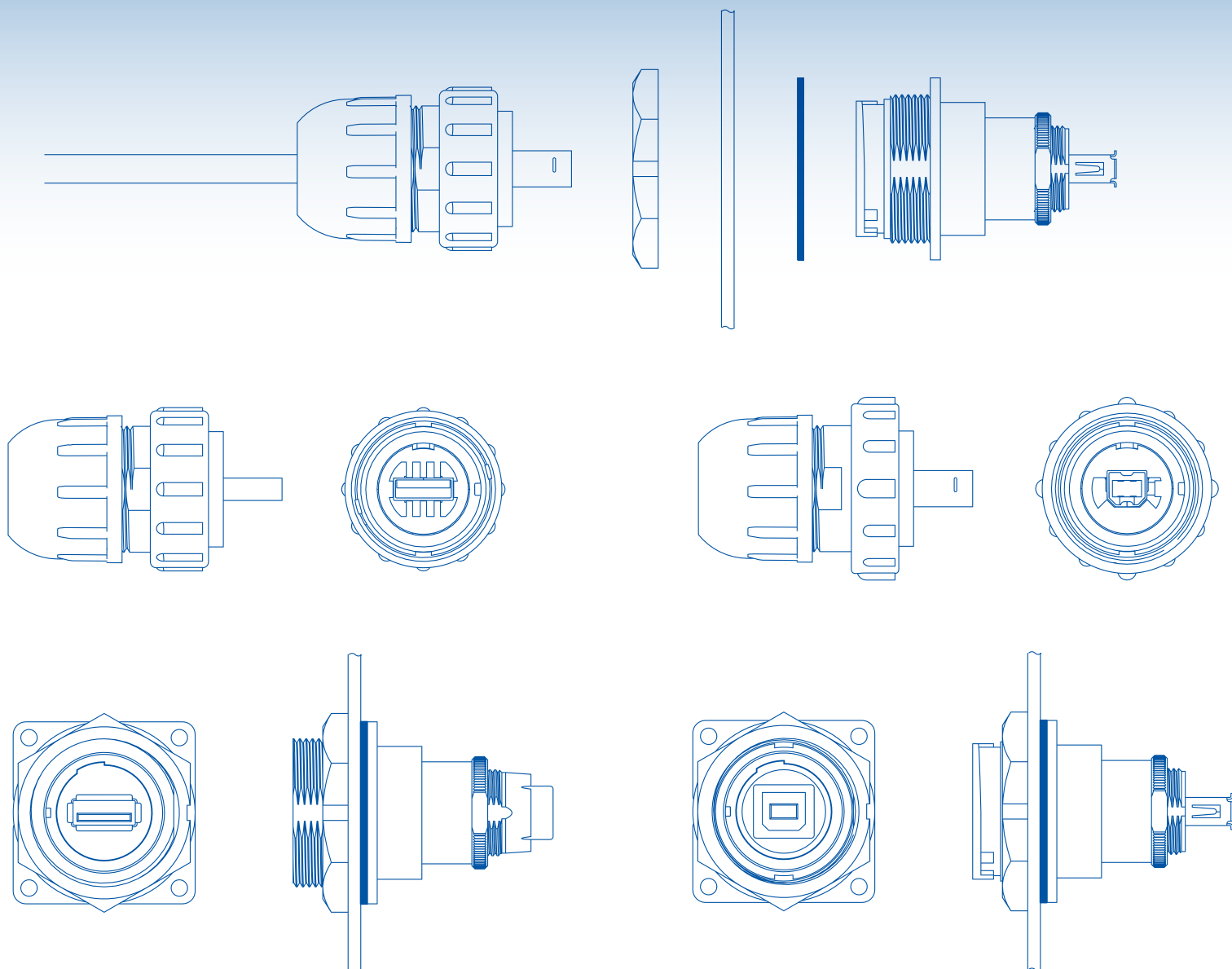




## DATA-CON-X™: SEALED USB TYPE A & B CONNECTORS

NEW PRODUCT BULLETIN C711

# CONXALL®

A SWITCHCRAFT COMPANY



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Please visit [conxall.com](http://conxall.com) for the most up-to-date product specifications. Made in the USA.

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## FEATURES & BENEFITS

- Sealed to IP67 & IP68 NEMA 250 (6P) (when mated)
- Feed-thru termination on the panel for easy field installation
- Field installable design is easy to assemble
- Quick connect bayonet or threaded style interface
- RoHS compliant assembly
- UV F1 rated housing

## APPLICATIONS

- Any sealed data transmission
- Military or industrial GPS location devices
- Instrumentation
- Medical data carts
- Data acquisition units
- General industrial electronic applications



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### SPECIFICATIONS

#### MECHANICAL SPECIFICATIONS

|                         |                                         |
|-------------------------|-----------------------------------------|
| Life:                   | Minimum 350 insertion/withdrawal cycles |
| Hex Nut Torque:         | 10-12 in-lb max                         |
| Coupling Locking Style: | Quick Connect (Bayonet) or Threaded     |
| Backshell Style:        | Threaded Nut-Squeezed Grommet           |

#### ELECTRICAL SPECIFICATIONS

|                                  |                      |
|----------------------------------|----------------------|
| Current Rating:                  | 1.5 A                |
| Voltage Rating:                  | Per USB 2.0 standard |
| Contact Resistance:              | 30 mΩ max            |
| Insulation Resistance:           | 1000 MΩ min          |
| Dielectric Withstanding Voltage: | 500 V AC/one minute  |

#### ENVIRONMENTAL SPECIFICATIONS

|                               |                                         |
|-------------------------------|-----------------------------------------|
| Operating Temperature Rating: | 0 °C to +50 °C (+32°F to +122°F)        |
| Storage Temperature:          | -20 °C to +60 °C (-4°F to +140°F)       |
| Moisture Resistance:          | Mil-Std 202G Method 106G                |
| Insulation Resistance:        | Mil-Std 202G Method 302                 |
| Vibration:                    | Mil-Std 202G Method 201A                |
| Thermal Shock:                | Mil-Std 202G Method 107G                |
| Weathertight:                 | IP67 & IP68, NEMA 250 (6P) (when mated) |
| Salt Spray:                   | Mil-Std 202G Method 101E                |
| Product Ratings:              | Tested per USB 2.0                      |

#### MATERIAL SPECIFICATIONS

|                          |                              |
|--------------------------|------------------------------|
| Plug Nut, Coupling Ring: | Thermoplastic                |
| Plug Housing, Insert:    | Thermoplastic                |
| Sealing Ring, O-Ring:    | Elastomer                    |
| Panel Housing, Hex Nut:  | Thermoplastic                |
| Retaining Nut:           | Copper Alloy, Nickel Plated  |
| Gasket:                  | Elastomer                    |
| <b>USB A or B Plug:</b>  |                              |
| Shell:                   | Steel, Nickel Plated         |
| Contacts:                | Copper Alloy, Gold Plated    |
| Insulator:               | Thermoplastic UL94V-0, White |
| <b>USB A Receptacle:</b> |                              |
| Shell:                   | Steel, Nickel Plated         |
| Contacts:                | Copper Alloy, Gold Plated    |
| Insulator:               | Thermoplastic UL94V-0, White |
| <b>USB B Receptacle:</b> |                              |
| Shell:                   | Copper Alloy, Nickel Plated  |
| Contacts:                | Copper Alloy, Gold Plated    |
| Insulator:               | Thermoplastic UL94V-0, White |

#### MOLDED CABLE ASSEMBLIES

Consult factory for molded options

#### OTHER

|                              |                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------|
| Flame Rating:                | UL 94V-0                                                                                                      |
| Recommended Panel Thickness: | 1/32" - 3/16" [0.8mm to 4.8mm] - Quick Connect Coupling<br>1/32" - 5/32" [0.8mm to 3.9mm] - Threaded Coupling |

#### Recommended Cable Type

|                         |                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------|
| Conductor Type:         | Solid or Stranded Conductors                                                                           |
| Outer Cable O.D. Range: | Product 150 Series: 0.134"-0.170" [3.40mm-4.33mm]<br>Product 180 Series: 0.171"-0.208" [4.34mm-5.28mm] |

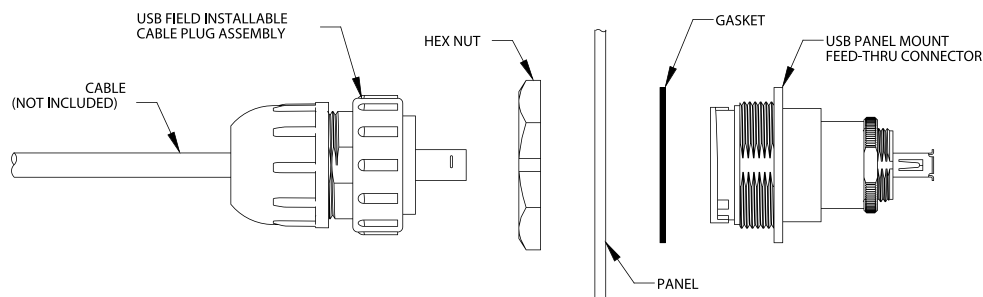


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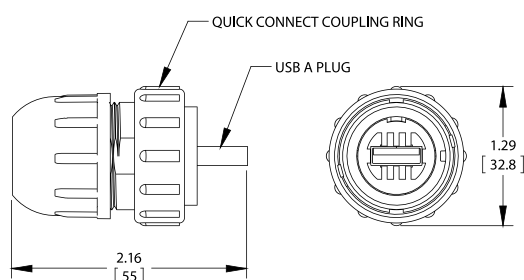
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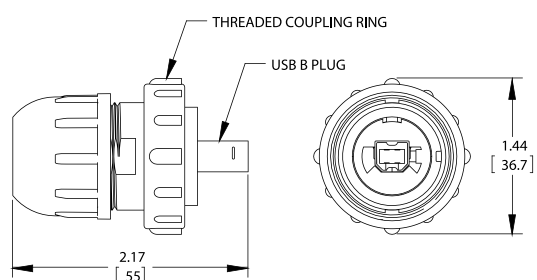
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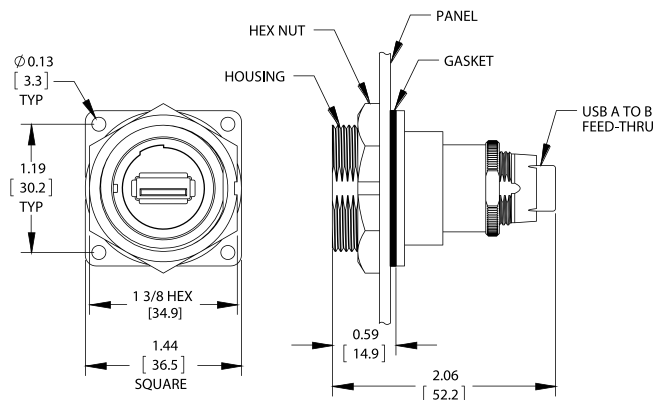
USB A FIELD INSTALLABLE CABLE PLUG  
(SHOWN WITH QUICK CONNECT COUPLING)



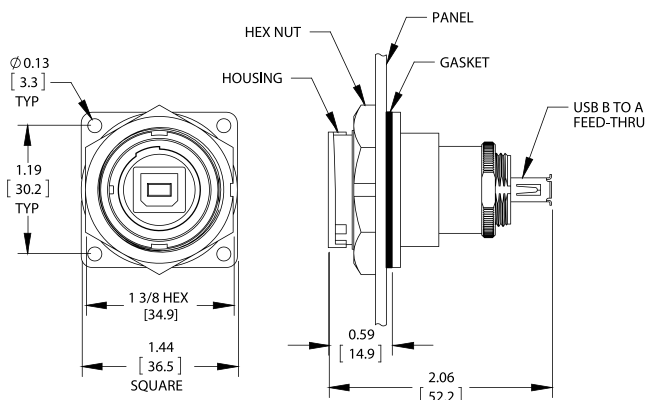
USB B FIELD INSTALLABLE CABLE PLUG  
(SHOWN WITH THREADED COUPLING)



USB PANEL MOUNT FEED-THRU CONNECTOR  
(SHOWN WITH USB A TO B FEED-THRU CONNECTOR)  
(SHOWN WITH THREADED HOUSING)



USB PANEL MOUNT FEED-THRU CONNECTOR  
(SHOWN WITH USB B TO A FEED-THRU CONNECTOR)  
(SHOWN WITH QUICK CONNECT HOUSING)



USB FIELD INSTALLABLE CABLE PLUG PART NUMBER CHART

| USB FIELD INSTALLABLE CABLE PLUG ASSEMBLY | PLUG TYPE                                              | COUPLING TYPE                                   | SERIES                                                                                                       |
|-------------------------------------------|--------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>DCC</b>                                | <b>USBA</b> = USB "A" 2.0<br><b>USBB</b> = USB "B" 2.0 | <b>B</b> = QUICK CONNECT<br><b>T</b> = THREADED | <b>150</b> = $\varnothing$ 0.134-0.170 [3.40-4.33MM]<br><b>180</b> = $\varnothing$ 0.171-0.208 [4.34-5.28MM] |

USB PANEL MOUNT FEED-THRU CONNECTORS PART NUMBER CHART

| USB FIELD INSTALLABLE PANEL HOUSING ASSEMBLY | RECEPTACLE TYPE (SEALED END)                           | COUPLING TYPE                                   | RECEPTACLE TYPE (NON-SEALED END)                                                                                                       |
|----------------------------------------------|--------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>DCP</b>                                   | <b>USBA</b> = USB "A" 2.0<br><b>USBB</b> = USB "B" 2.0 | <b>B</b> = QUICK CONNECT<br><b>T</b> = THREADED | <b>USBA</b> = USB "A" 2.0 (NOT AVAILABLE WITH USBA ON SEALED END)<br><b>USBB</b> = USB "B" 2.0 (NOT AVAILABLE WITH USBB ON SEALED END) |

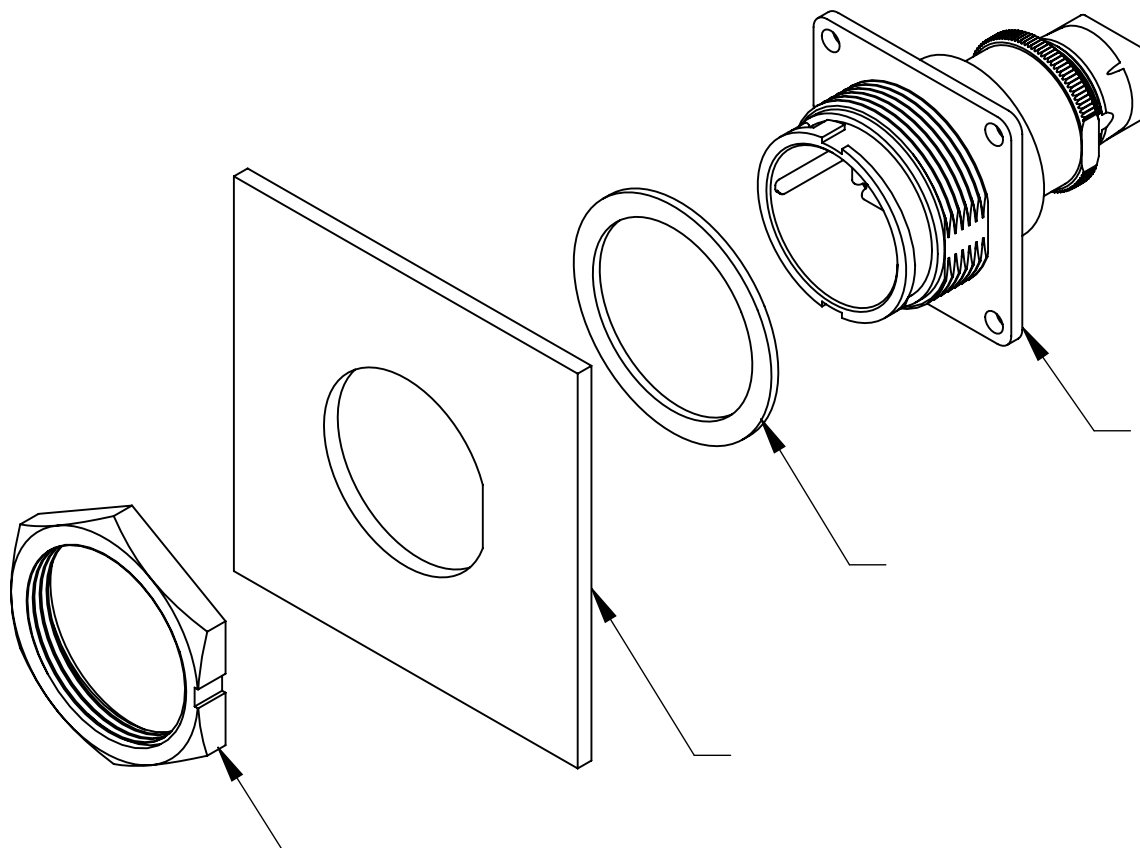


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## NOTES:

1. DCP-USBAB-USBB SHOWN IN EXPLODED VIEW. (USB A TO B WITH QUICK CONNECT COUPLING.)
2. MATED ASSEMBLY MEETS IP-67 & IP-68, NEMA 250 (6P).
3. THESE ASSEMBLIES ARE RoHS COMPLIANT.

## MATERIALS:

GASKET: ELASTOMER  
HEX NUT: THERMOPLASTIC  
USB PANEL HOUSING: THERMOPLASTIC  
RETAINING NUT: COPPER ALLOY, NICKEL PLATED  
USB A RECEPTACLE:  
SHELL: STEEL, NICKEL PLATED  
CONTACTS: COPPER ALLOY, GOLD PLATED  
INSULATOR: THERMOPLASTIC  
USB B RECEPTACLE:  
SHELL: COPPER ALLOY, NICKEL PLATED  
CONTACTS: COPPER ALLOY, GOLD PLATED  
INSULATOR: THERMOPLASTIC

## OTHER:

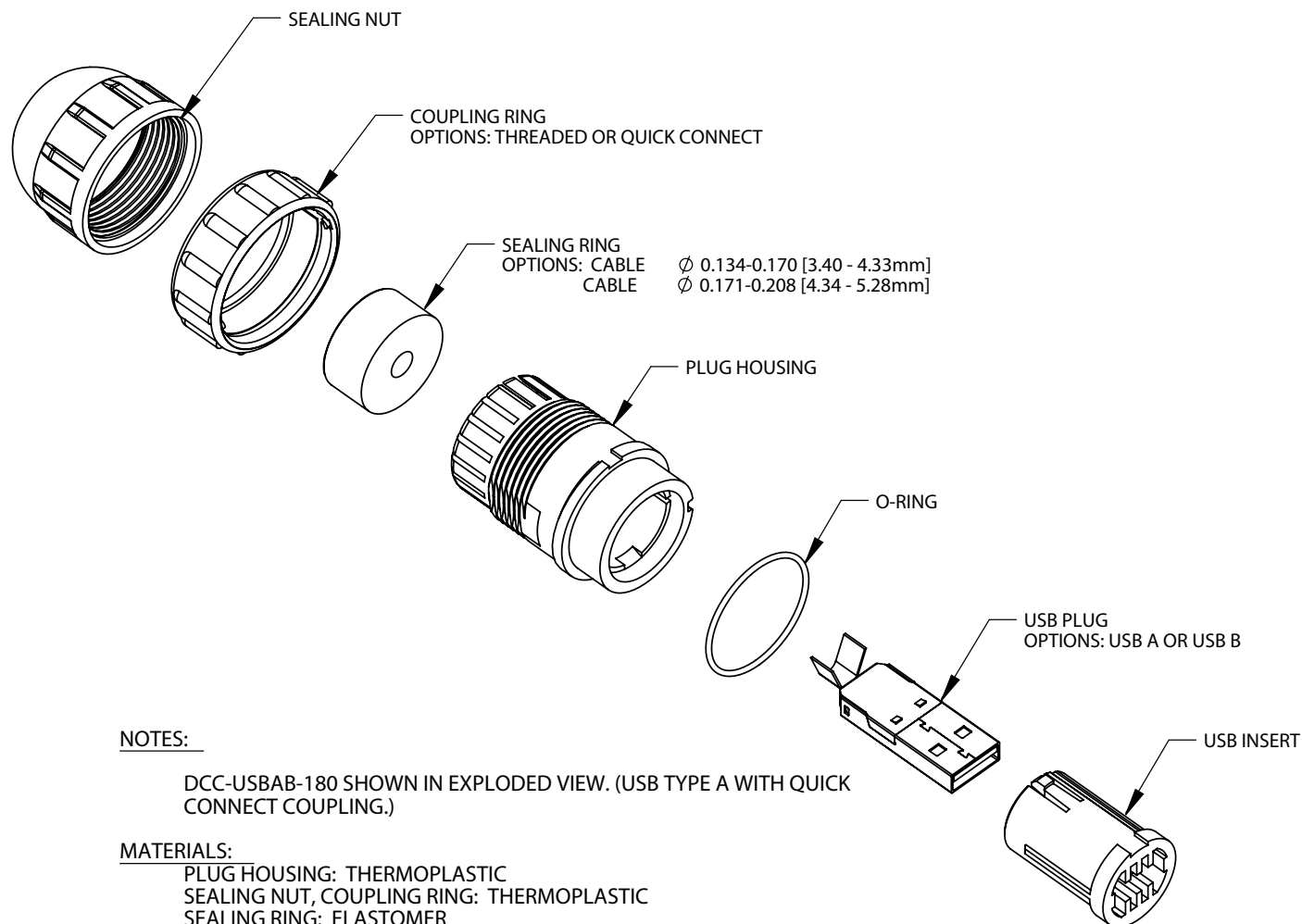
RECOMMENDED PANEL THICKNESS:  
QUICK CONNECT COUPLING: 1/32" TO 3/16" (0.8mm to 4.8mm)  
THREADED COUPLING: 1/32" TO 5/32" (0.8mm to 3.9mm)



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# DATA-CON-X™: SEALED USB TYPE A & B CONNECTORS

## NEW PRODUCT BULLETIN C711



### NOTES:

DCC-USBAB-180 SHOWN IN EXPLODED VIEW. (USB TYPE A WITH QUICK CONNECT COUPLING.)

### MATERIALS:

PLUG HOUSING: THERMOPLASTIC  
SEALING NUT, COUPLING RING: THERMOPLASTIC  
SEALING RING: ELASTOMER  
O-RING: ELASTOMER  
INSERT: THERMOPLASTIC  
USB PLUG:  
INSULATOR: THERMOPLASTIC  
CONTACTS: COPPER ALLOY, GOLD PLATED  
SHIELD: COPPER ALLOY, TIN PLATED

### ELECTRICAL:

VOLTAGE RATING: PER USB 2.0 STANDARD  
CONTACT RESISTANCE: 30 MILLIOHMS MAXIMUM  
CONTACT CURRENT RATING: 1.5 A MINIMUM  
INSULATION RESISTANCE: 1000 MEGAOHMS MINIMUM  
WITHSTANDING VOLTAGE: 500VAC FOR 1 MINUTE

### PRODUCT RATING:

IP67 & IP68, NEMA 250 (6P) WHEN MATED  
USB A PLUG: USB 2.0  
USB B PLUG: USB 2.0

### OTHER:

OPERATING TEMPERATURE: 0 °C TO +50 °C  
RECOMMENDED CABLE TYPE: SOLID OR STRANDED CONDUCTORS  
OUTER CABLE O.D. RANGE:  
PRODUCT 150 SERIES: 0.134-0.170 [3.40mm-4.33mm]  
PRODUCT 180 SERIES: 0.171-0.208 [4.34mm-5.28mm]



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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)