

## RJ45 Weathertight Connectors



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### Features & Benefits

- Sealed to IP67 & IP68 NEMA 250 (6P) (when mated)
- Molded cable assemblies available
- CAT 5E or CAT 6 available in shielded or unshielded versions as standard
- Feed through or IDC panel terminals for easy field installation
- Field installable design is easy to assemble
- Dust cap available

### Applications

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



A **Switchcraft**® co.

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### Specifications

#### **Materials:**

Field Installable Plug Assembly:

Sealing Nut, Coupling Ring: Thermoplastic

Plug Housing, Insert: Thermoplastic

Sealing Ring: Elastomer

O-Ring: Elastomer

RJ45 Plug:

Insulator: Thermoplastic

Contacts: Copper Alloy, Gold Plated

Shield (Shielded Option Only): Copper Alloy, Tin Plated

Panel Housing Jack Assembly:

Panel Housing, Hex Nut: Thermoplastic

Gasket: Elastomer

RJ45 Jack:

Housing: Thermoplastic

Contacts: Copper Alloy, Gold Plated

Printed Circuit Board (PCB): FR-4

IDC Contacts: Copper Alloy, Tin Plated

#### **Electrical:**

Contact Resistance: 20 milliohms Max

Insulation Resistance: 500M ohms Min

Withstanding Voltage: 1000V DC

#### **Mechanical:**

Vibration: Mil-Std 202G Method 201A

#### **Environmental:**

Operating Temperature: -10 °C to +60 °C

Moisture Resistance: Mil-Std 202G Method 106G

Insulation Resistance: Mil-Std 202G Method 302G

Thermal Shock: Mil-Std 202G Method 107G

#### **Product Rating:**

IP67 & IP68, NEMA 250 (6P) (when mated)

RJ45 Cable Plug (Category 6): TIA/EIA 568 C.2

RJ45 Panel Jack (Category 5e): TIA/EIA 568 B.2

RJ45 Panel Jack (Category 6): TIA/EIA 568 B.2

#### **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)

Recommended Cable Type:

Conductor Type: Solid or Stranded Conductors

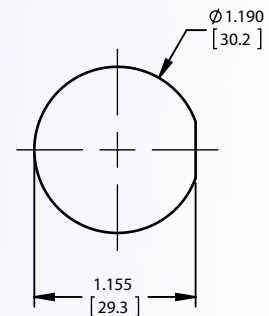
Outer Cable O.D. Range: Ø0.190 to Ø0.250  
(4.83mm to 6.35mm)

Conductor insulator O.D. Range: Ø0.037 to Ø0.042  
(0.94mm to 1.06mm)

Recommended Crimp/Termination Tools:

Sentinel Hand Ratchet Tool, Part Number "900005"

Sentinel Die Set, Part Number "900216"



RECOMMENDED PANEL CUT-OUT  
(THREADED OR QUICK CONNECT COUPLING)  
± 0.003 [±0.07]

### Molded Cable Assemblies

Custom overmolded cable assemblies available  
Please contact us with your requirements



**conxall**®  
Harsh Environment  
Connectivity Solutions

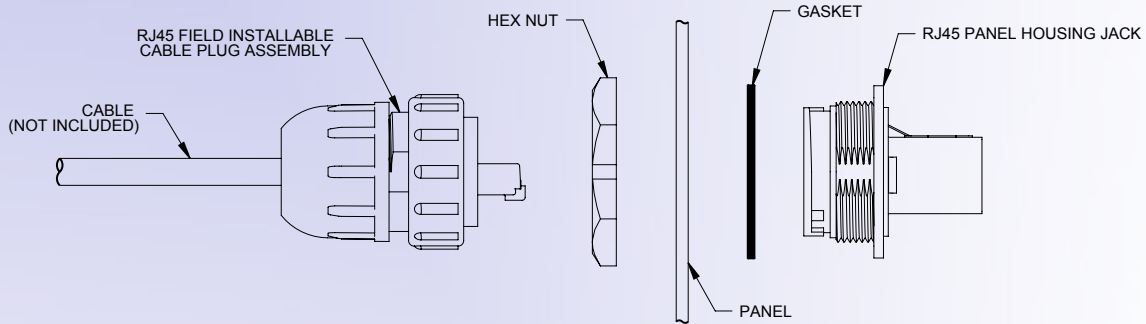


**www.conxall.com**  
601 E. Wildwood - Villa Park, IL 60181  
Phone: 630-834-7504 Fax: 630-834-8540

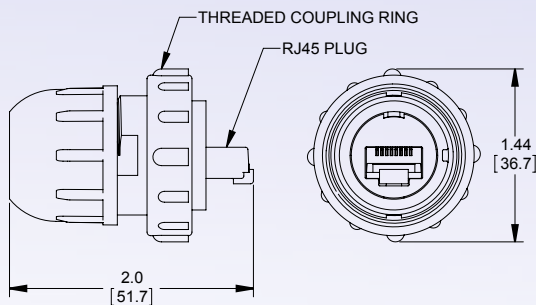
Please check our website [www.conxall.com](http://www.conxall.com) for the most up-to-date product specifications

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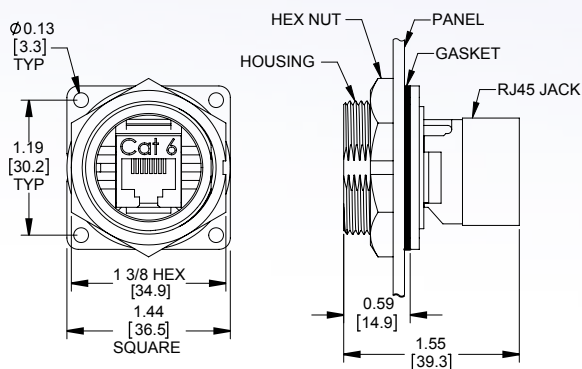
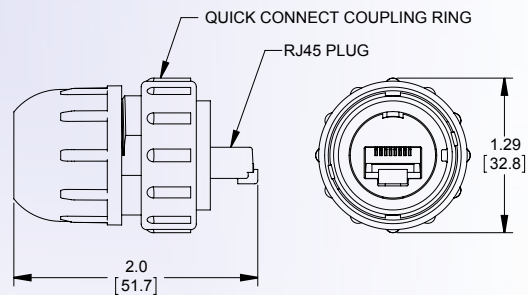
### RJ45 Weathertight Connectors



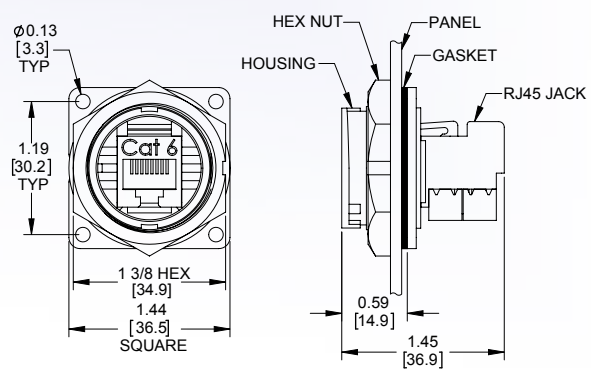
**RJ45 FIELD INSTALLABLE CABLE PLUG ASSEMBLY  
(THREADED COUPLING)**



**RJ45 FIELD INSTALLABLE CABLE PLUG ASSEMBLY  
(QUICK CONNECT COUPLING)**



**RJ45 PANEL HOUSING IDC JACK  
(SHOWN WITH SHIELDED CAT 6 JACK)  
(SHOWN WITH THREADED HOUSING)**



**RJ45 PANEL HOUSING IDC RIGHT ANGLE JACK  
(SHOWN WITH NON-SHIELDED CAT 6 JACK)  
(SHOWN WITH QUICK CONNECT HOUSING)**

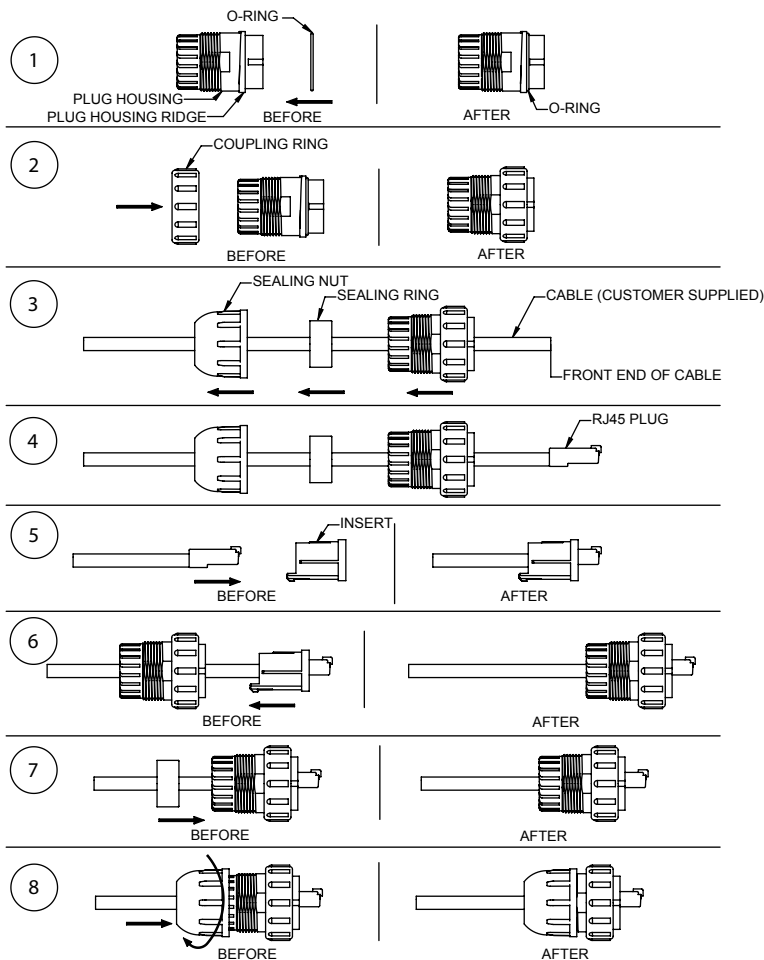
## RJ45 Weathertight Connectors

### Part Number Charts

| DCC                                           | RJ6              | X                                  | X                                 | 310    |
|-----------------------------------------------|------------------|------------------------------------|-----------------------------------|--------|
| RJ45 FIELD INSTALLABLE<br>CABLE PLUG ASSEMBLY | PLUG TYPE        | PLUG SHIELDING                     | COUPLING TYPE                     | SERIES |
| DCC                                           | RJ6 = RJ45 CAT 6 | BLANK = UNSHIELDED<br>S = SHIELDED | B = QUICK CONNECT<br>T = THREADED | 310    |

| DCP                                              | XXX                                   | X                                  | X                                 | XX                                                                               |
|--------------------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|----------------------------------------------------------------------------------|
| RJ45 FIELD INSTALLABLE<br>PANEL HOUSING ASSEMBLY | JACK TYPE                             | JACK SHIELDING                     | COUPLING TYPE                     | SERIES                                                                           |
| DCP                                              | RJ5 = RJ45 CAT 5e<br>RJ6 = RJ45 CAT 6 | BLANK = UNSHIELDED<br>S = SHIELDED | B = QUICK CONNECT<br>T = THREADED | F = FEED-THRU (TO SAME CONNECTOR)<br>SD = IDC, STRAIGHT<br>RD = IDC, RIGHT ANGLE |

### Assembly Instructions



- Slide the O-ring onto the front end of the plug housing until it seats up against the ridge on the plug housing
- Slide the coupling ring over the plug housing  
NOTE: Make sure the front of the coupling ring can slide past the ridge on the plug housing. If not, it is inserted the wrong way
- Slide the sealing nut, sealing ring and plug housing/ coupling ring over the front end of the cable in the following order:  
1st sealing nut  
2nd sealing ring  
3rd plug housing / coupling ring
- Terminate the RJ45 plug to the cable  
NOTE: See supplemental termination guide for cable termination instructions
- Slide the RJ45 plug into the back end of the insert until it snaps into place
- Slide the insert/RJ45 plug into the front end of the plug housing until it snaps into place
- Push the sealing ring into the rear of the plug housing  
NOTE: No part of the sealing ring should extend past the rear of the plug housing
- Screw the sealing nut onto the plug housing



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

**Наши контакты:**

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