

# **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





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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 Curcuit Board (PCB): FR-4 IDC Contacts: Copper Alloy, Tin Plated

#### 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"

#### **Electrical:**

Contact Resistance: 20 milliohms Max Insulation Resistance: 500M ohms Min Withstanding Voltage: 1000V DC

#### Mechanical:

Vibration: Mil-Std 202G Method 201A

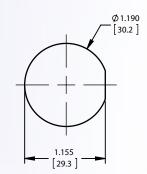
#### **Environmental:**

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



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





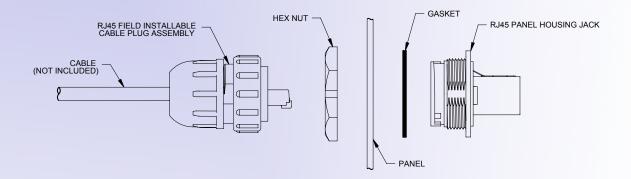


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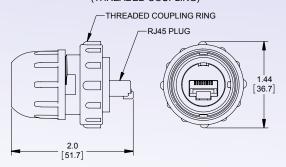


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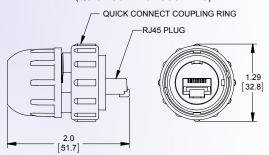
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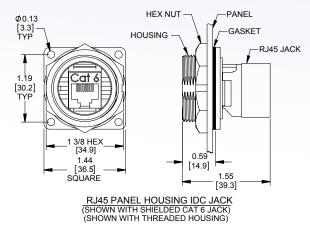


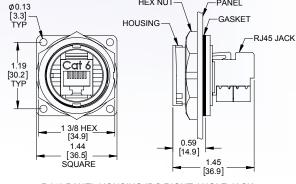
# RJ45 FIELD INSTALLABLE CABLE PLUG ASSEMBLY (THREADED COUPLING)



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







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

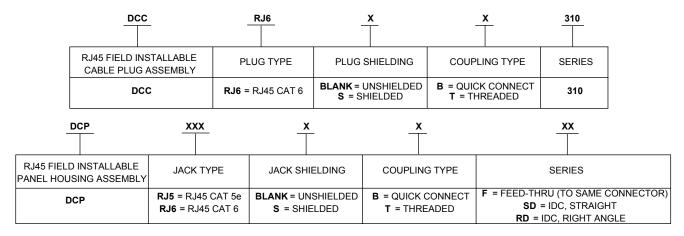




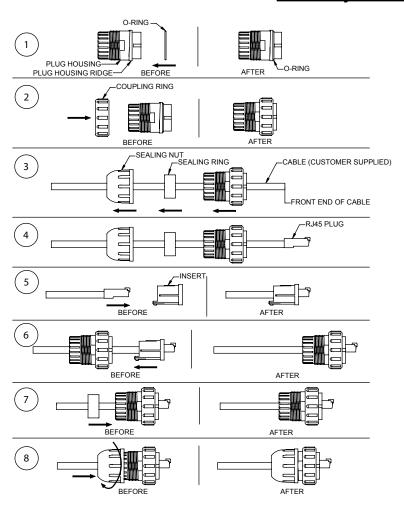


# **RJ45 Weathertight Connectors**

#### **Part Number Charts**



### **Assembly Instructions**



- 1) Slide the O-ring onto the front end of the plug housing until it seats up against the ridge on the plug housing
- 2) 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
- 3) 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
- 5) Slide the RJ45 plug into the back end of the insert until it snaps into place
- 6) Slide the insert/RJ45 plug into the front end of the plug housing until it snaps into place  $\,$
- 7) 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

8) Screw the sealing nut onto the plug housing





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