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# RJ45 Weathertight Connectors

New Product Bulletin C709

## RJ45 Weathertight Connectors

### 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 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

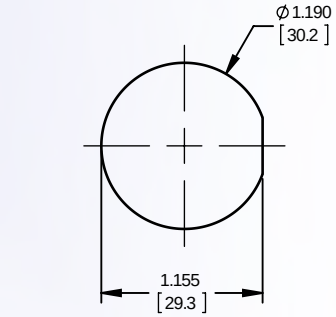
**Environmental:**
Operating Temperature: -10 °C to +60 °C
Moisture Resistance: Mil-Std 202G Method 106G
Insulation Resistance: Mil-Std 202G Method 302G
Thermal Shock: Mil-Std 202G Method 107G

**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

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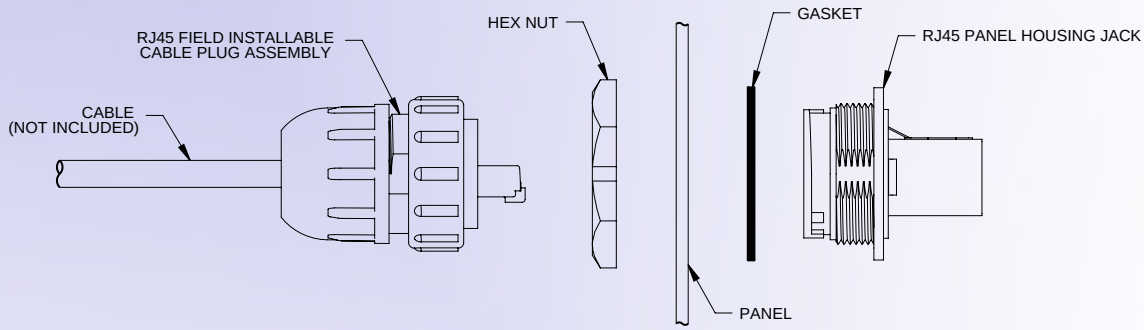
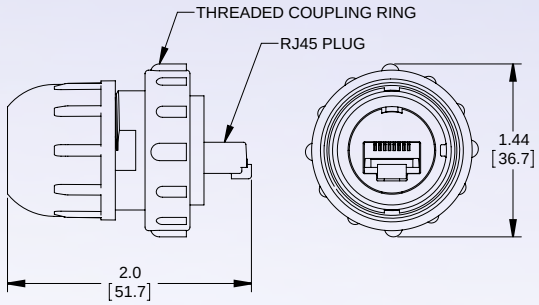
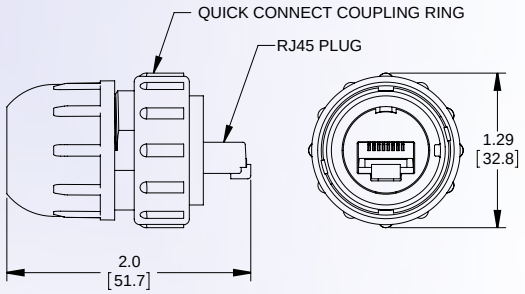
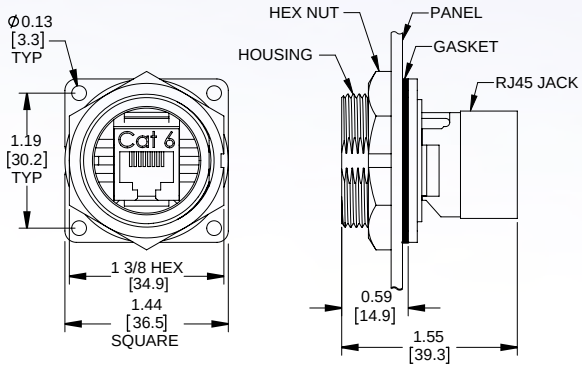



RJ45 FIELD INSTALLABLE CABLE PLUG ASSEMBLY
(THREADED COUPLING)

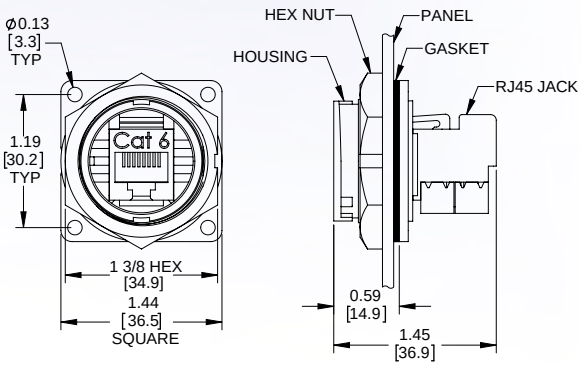



RJ45 FIELD INSTALLABLE CABLE PLUG ASSEMBLY
(QUICK CONNECT COUPLING)




RJ45 PANEL HOUSING IDC 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)



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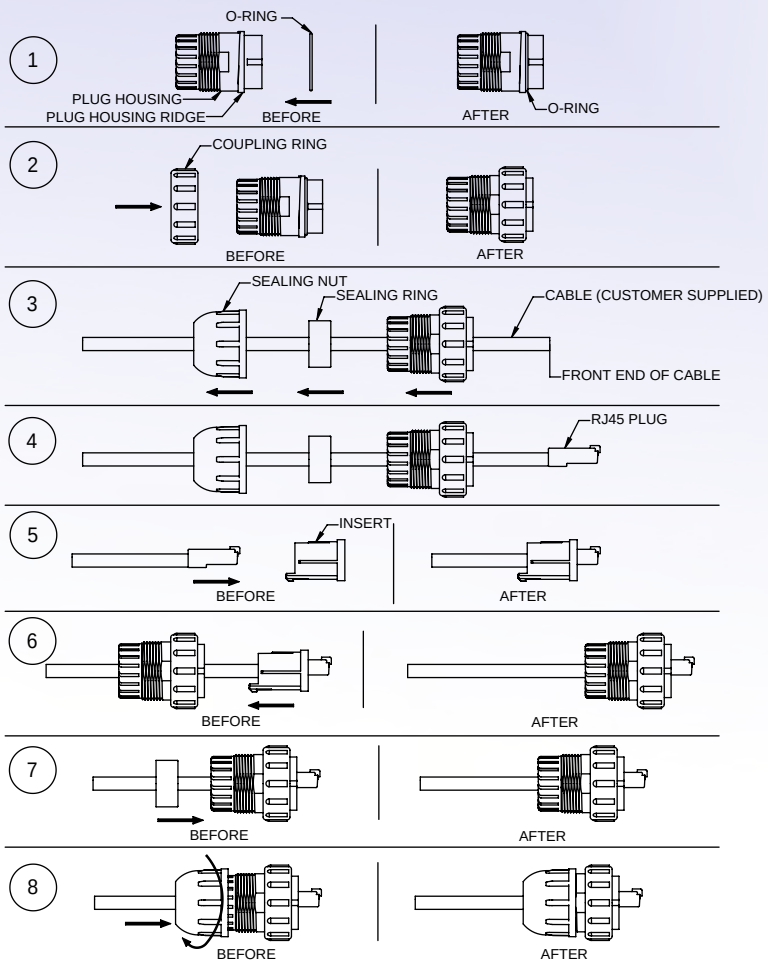
## Part Number Charts

| DCC | RJ6 | X | X | 310 |
|---|---|---|---|---|
| RJ45 FIELD INSTALLABLE 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 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




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

4) 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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http://moschip.ru/get-element

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