RJF « EZ »

Ethernet Connection System for Harsh Environment – Industrial Ethernet

Description

RJ Field allows you to use an Ethernet Class D / Cat. 5e connection for 10 BaseT, 100 BaseTX or 1000 BaseT networks in harsh environments:
• Sealed against fluids and dusts (IP67)
• Shock, Vibration and Traction resistant
• No cabling operation in field and no tools required

With the patented RJStop® system you can use a standard RJ45 cordset in a protective composite plug which will protect it from shocks, dust and fluids. No hazardous in-field cabling and grounding!

This RJF “EZ” plug is connected into a receptacle, using a quick user-friendly Lever coupling mechanism. On the receptacle, one female RJ45 is soldered onto a PCB allowing for the following back terminations:
• another female RJ45
• a RJ45 cordset
• a IDC modules

The RJ45 cordset shielding is transmitted to the RJ45 receptacle through lateral grounding fingers.

Applications

• Telecom Equipments
• Video Control
• Robotics
• Industrial Process Control
• CNC Machines
• Special Machines
• Motion Control
• Tele-maintenance
Main Characteristics

Data Transmission
- 10 BaseT, 100 BaseTX and 1000 BaseT networks
- Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

Environmental Protection
- Sealing : IP67
- Salt Spray > 1000 h
- Fire Retardant / Low Smoke : UL94 V0 and NFF 16102, DIN 5510-2
- Thermal Shock : 5 cycles at - 40°C / +100°C
- Operating Temperature : - 40°C / +85°C

Mechanical
- Quick lever coupling
- RJ45 cordset retention in the plug : 70 N in the axis
- Mating cycles : 500 min

Assembly Instructions

Universal : Can be used with all standard * RJ45 Cat.5e cordset brands
Easy and Safe : No field cabling tools required

* The RJStop® system allows the use of standard RJ45 cordsets regardless their Brand. However, Amphenol Socapex can provide Cat5-5e cordset with reinforced jacket to be used in harsh environments (shocks, oils, fuel,…). Please consult factory.
Plug  Type 6 Shell with Plastic Gland

Receptacle  Receptacle with 2 mounting holes

Back Terminations :

Type 1: Female RJ45  
Type 2: RJ45 Cordset  
Type 3: IDC termination  
(Not yet industrialized)

Notes:  - Type 2 without RJ45 plug at the end of the cable are also available: consult factory
## Part Number Code

<table>
<thead>
<tr>
<th>Series</th>
<th>RJ Field EZ - Lever</th>
<th>Shell Type</th>
<th>Back Terminations (For Receptacles only)</th>
<th>Cordset Length (For Receptacles with &quot;2&quot; Back Termination only)</th>
<th>Cabling Configuration (For &quot;2&quot; Receptacles only)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RJF EZ</td>
<td>2</td>
<td>03 : Composite Lever Plug, Plastic Gland</td>
<td>03 : 0.3 meters [11.81 inches]</td>
<td>100BTX : 10/100 Base TX</td>
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<tr>
<td></td>
<td></td>
<td>2</td>
<td>2 : Composite Square Flange Receptacle</td>
<td>05 : 0.5 meters [19.68 inches]</td>
<td>568B</td>
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<td></td>
<td></td>
<td></td>
<td>2 : Composite Square Flange Receptacle</td>
<td>10 : 1 meter [39.37 inches]</td>
<td>568A</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>2 : Composite Square Flange Receptacle</td>
<td>15 : 1.5 meters [59.05 inches]</td>
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</tbody>
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### HOW TO ORDER

- Plug: RJF EZ 6
- Receptacle, Female RJ45 Back termination: RJF EZ 21
- Receptacle, 1,5m [59.05"] 100 BTX cordset termination: RJF EZ 22 15 100BTX

### Accessories

- **IP67 Dust Caps**

  **For Plugs**: Not available

  **For Receptacles**: RJF EZ BE

- Panel Gasket (Thickness : 1 mm [.039]) : Part No. RJF EZ JE

- Cat5 – 5e cordsets with reinforced jacket to be used in harsh environments (shocks, oils, fuel,…). Please consult factory.