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# 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:

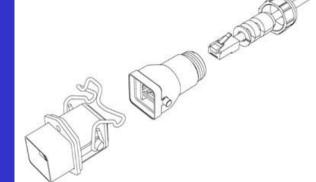
- Sealed against fluids and dusts (IP67)
- Shock, Vibration and Traction resistant
- No cabling operation in field and no tools required

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!





Electronica 2004: RJFEZ awarded « Component Product of the Year »



Transform your RJ45 cordset into a rectangular IP67 Connector!

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

#### Mechanical

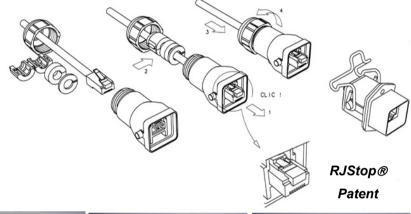
- Quick lever coupling
- · RJ45 cordset retention in the plug: 70 N in the axis
- · Mating cycles: 500 min

#### **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

## Assembly Instructions

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



















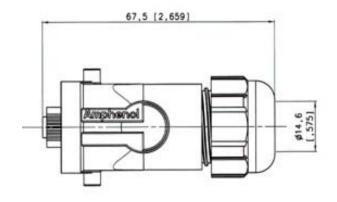


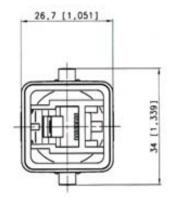
\* The RJStop® system allows the use of standard RJ45 cordsets regardless their Brand. However, Amphenol Socapex can provide Cat5-5e cordset with reinforced jacket to be used in harsh environments (shocks, oils, fuel,...). Please consult factory.



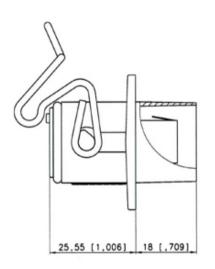


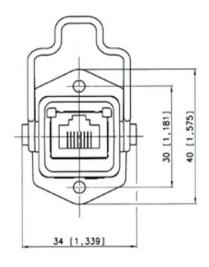
## Plug Type 6 Shell with Plastic Gland

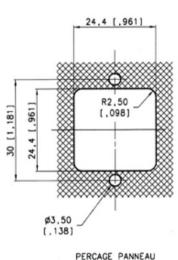




## Receptacle Receptacle with 2 mounting holes

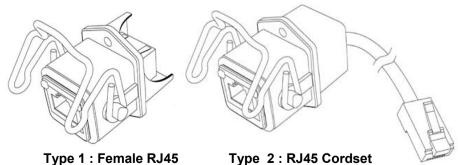


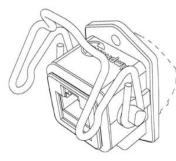




PANEL DRILLING

## **Back Terminations:**



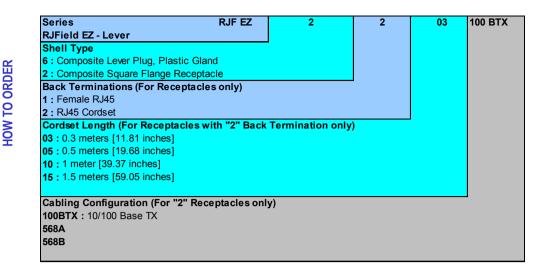


Type 3 : IDC termination (Not yet industrialized)

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



### **Part Number Code**



Examples: - 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.