Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

RJF « EZ »

Ethernet Connection System for Harsh Environment – Industrial Ethernet

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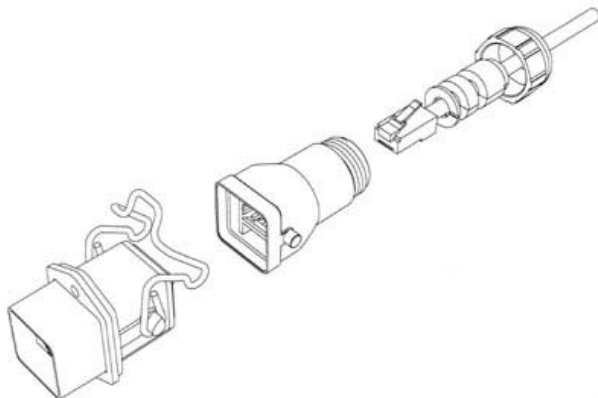## Description

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 <u>no tools required</u>

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.
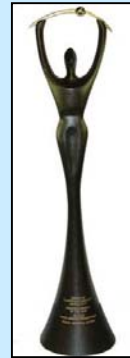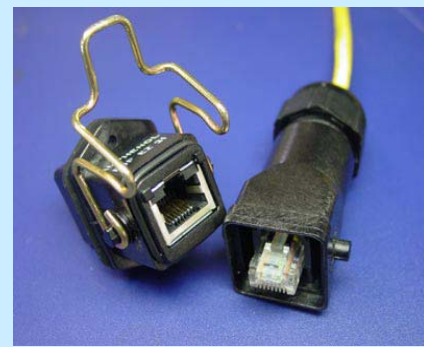No hazardous in-field cabling and grounding !

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

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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
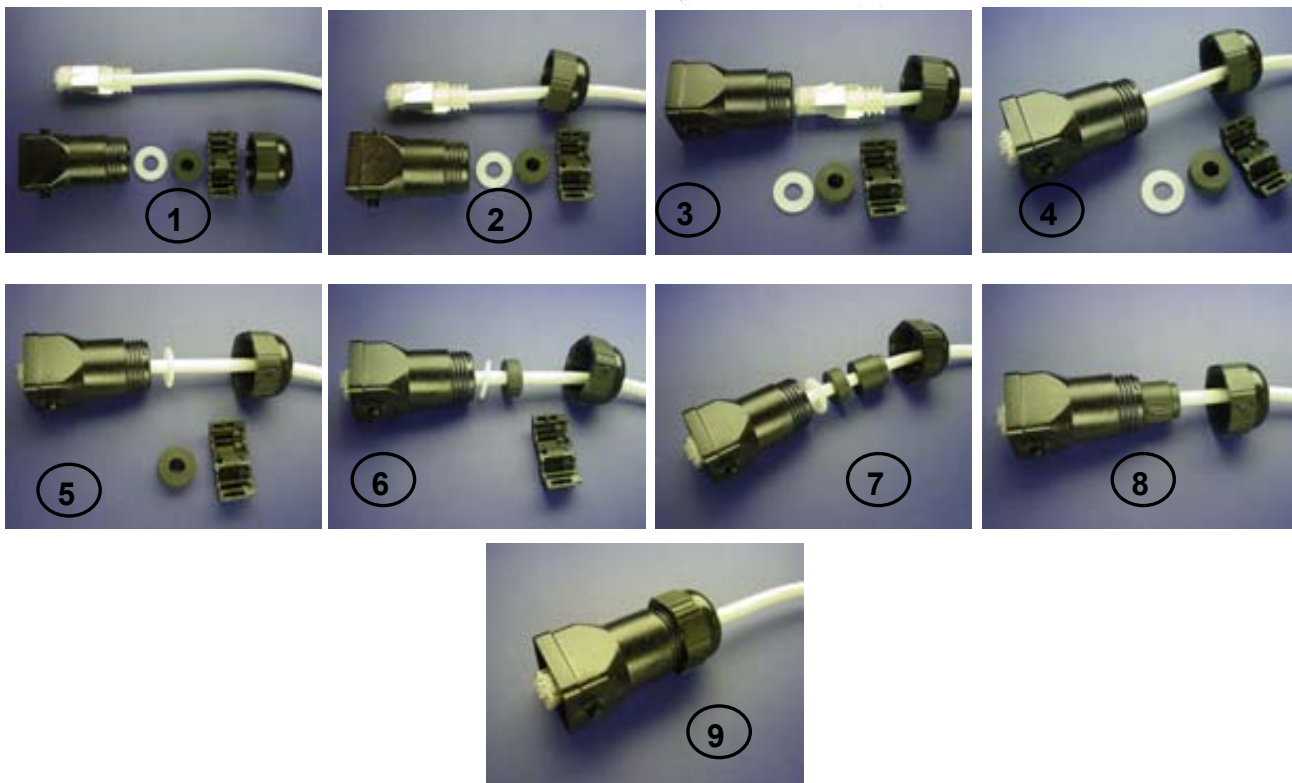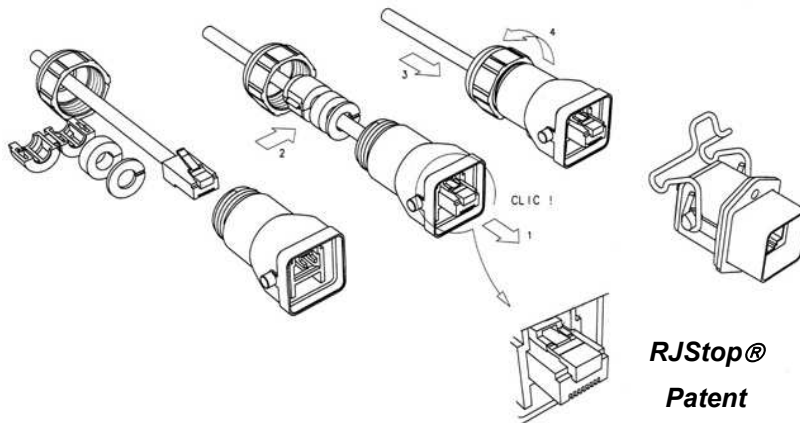
• Mating cycles : 500 min

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

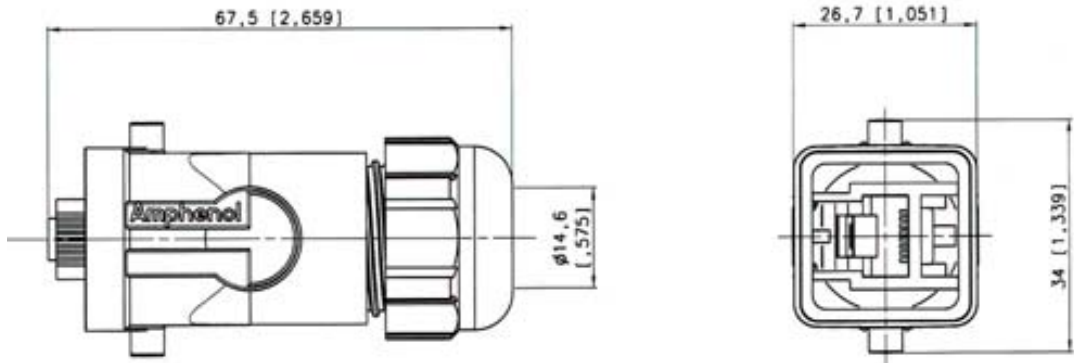• Operating Temperature : - 40°C / +85°C

Assembly Instructions

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

RJStop®
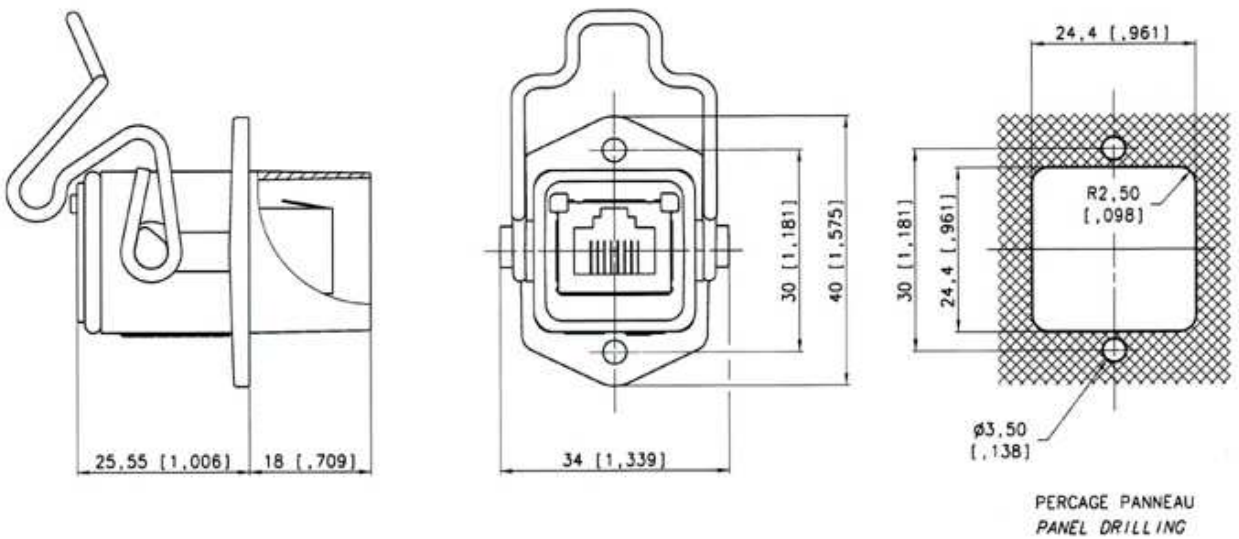
Patent

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⑤ ⑥ ⑦ ⑧

⑨

* 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
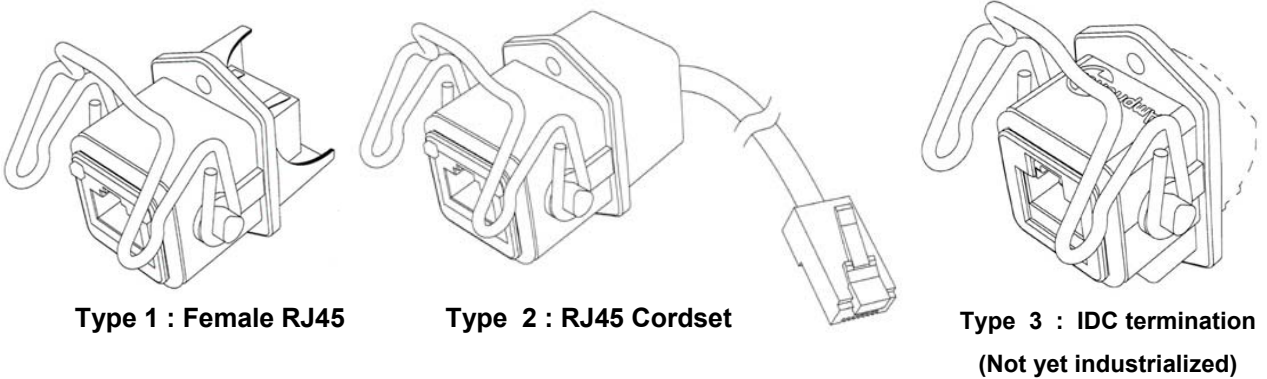**in harsh environments (shocks, oils, fuel,…). Please consult factory.**

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Plug   Type 6 Shell with Plastic Gland

67,5 [2,659]

26,7 [1,051]

ø14,6 [,575]

34 [1,339]

Receptacle   Receptacle with 2 mounting holes

25,55 [1,006]   18 [,709]

34 [1,339]

30 [1,181]   40 [1,575]

24,4 [,961]

30 [1,181]   24,4 [,961]

R2,50 [,098]

ø3,50 [,138]

PERCAGE PANNEAU
PANEL DRILLING

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

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Part Number Code

Series RJField EZ - Lever	RJF EZ	2	2	03	100 BTX
Shell Type **6 :** Composite Lever Plug, Plastic Gland **2 :** Composite Square Flange Receptacle					
Back Terminations (For Receptacles only) **1 :** Female RJ45 **2 :** RJ45 Cordset					
Cordset Length (For Receptacles with "2" Back Termination only) **03 :** 0.3 meters [11.81 inches] **05 :** 0.5 meters [19.68 inches] **10 :** 1 meter [39.37 inches] **15 :** 1.5 meters [59.05 inches]					
Cabling Configuration (For "2" Receptacles only) **100BTX :** 10/100 Base TX **568A** **568B**					

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.**

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