

RJ Field

Ethernet Connection System for Harsh Environment

The Industrial Ethernet Solution

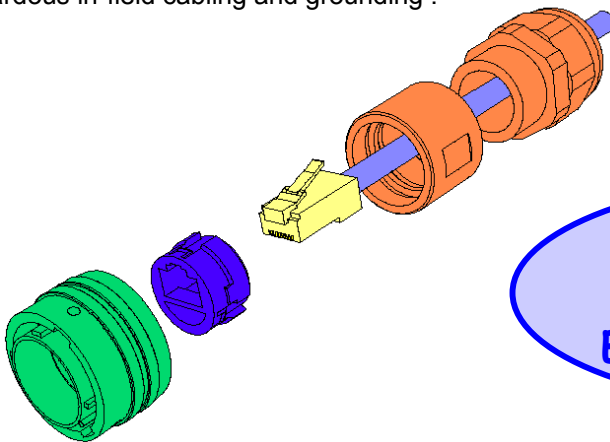
Description

The RJField connector 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
- Mechanical Coding / Polarization (4 positions)

With the patented RJStop® system you can use a **standard RJ45 cordset** in a metallic plug which will protect it from shocks, dust and fluids.

No hazardous in-field cabling and grounding !



**Transform your RJ45
cordset into a Harsh
Environment Connector !**

This metallic plug is connected into a receptacle, using a fast ¼ turn bayonet coupling mechanism (MIL-C-26482 type) providing both “audible and visual” coupling.

On the receptacle, one female RJ45 is soldered onto a PCB allowing for the following back terminations :

- another female RJ45
- a RJ45 cordset
- a solder termination

The RJ45 cordset shielding is transmitted to the RJ45 receptacle through lateral grounding fingers. For an outstanding EMI protection, the conductive plating versions (Ni and Cd) with metallized receptacle inserts transmit the shielding to the connector shells and finally to the panel.



RJF awarded “Best Automatic Control Component”

NEW

<http://www.RJField.com>

Applications

- Robotics
- Industrial Process Control
- CNC Machines
- Machine Tool
- Motion Control
- Data Acquisition and Transmission in Harsh Environment
- Tele-maintenance
- Warehousing / Logistics

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

- Bayonet coupling ("Audible & Visual" coupling signal)
- 4 mechanical Coding / Polarization possibilities by the user (insert rotation)
- RJ45 cordset retention in the plug : 100 N in the axis
- Mating cycles : 500 min

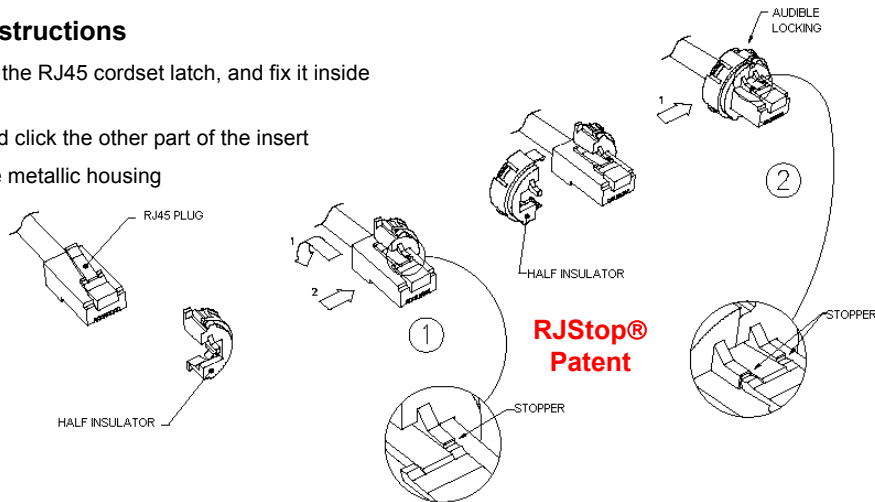
Environmental Protection

- Sealing : IP67 with recommended 5 to 12 mm cable diameter
- Salt Spray :
 - 48 h with Nickel plating
 - > 96 h with black coating
 - > 500 h with hard anodic coating and Cadmium
- Fire retardant / Low Smoke : UL94 V0 and NF F 16 101 & 16 102
- Vibrations : 10 - 500 Hz, 10 g, 3 axes : no discontinuity > 10 nano s.
- Shocks : IK06 : drop of a 250 g weight from 40 cm [15.75 in] height onto mated pair of connectors
- Humidity : 21 days, 43°C, 98% humidity
- Thermal Shock : 5 cycles at -40°C / +100°C
- Temperature Range : -40°C / +85°C

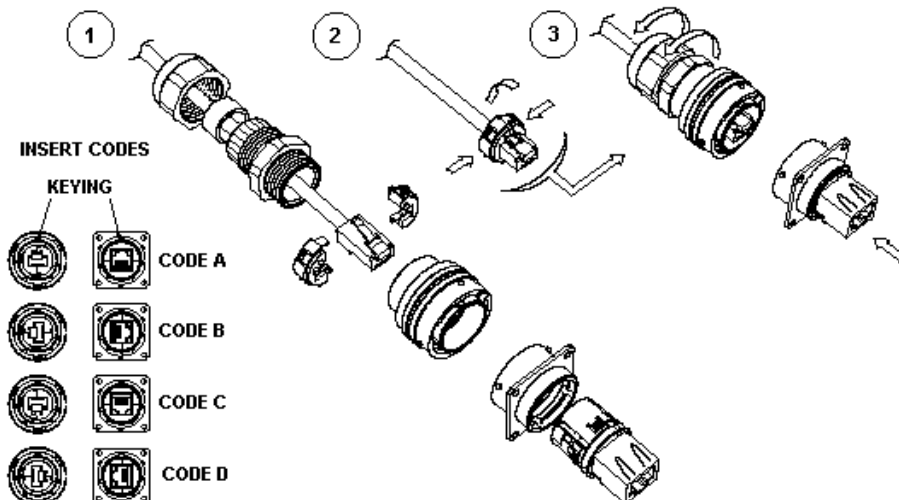
Universal : Can be used with all standard * RJ45 Cat.5e cordset brands

Assembly instructions

1. Push down the RJ45 cordset latch, and fix it inside the insert
2. Press in and click the other part of the insert
3. Insert in the metallic housing



Easy and Safe : No field cabling tools required



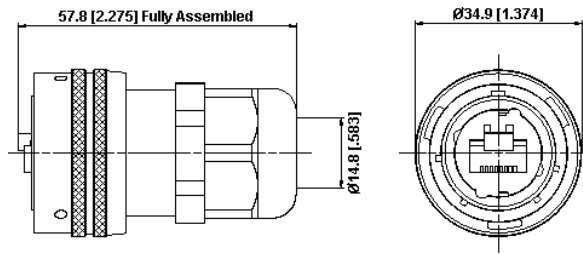
* The RJStop® system allows the use of standard RJ45 cordsets regardless their Brand. However, Amphenol Socapex can provide Cat5- 5e cordset with reinforced jacket to be used in harsh environments (shocks, oils, fuel,...). Please consult factory.

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<http://www.RJField.com>

Amphenol®

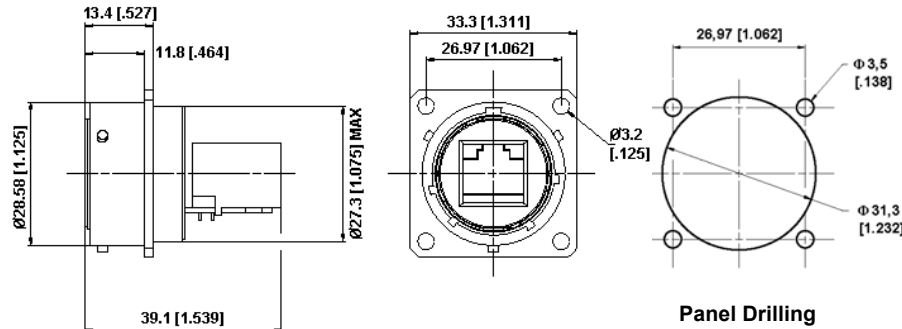
Plug

Shell type 6
With Plastic or Metal Gland

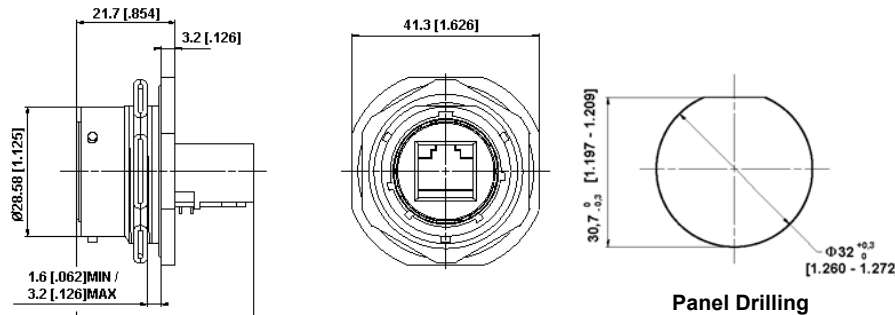


Receptacle

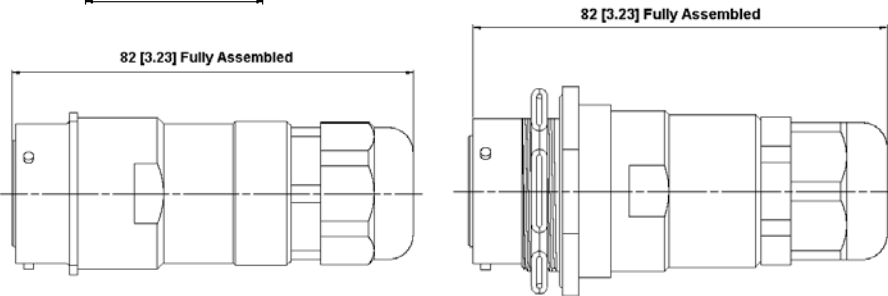
Square flange receptacle
4 mounting holes
Shell type 2



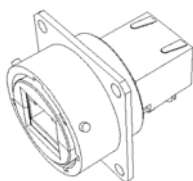
Jam nut receptacle
Shell type 7



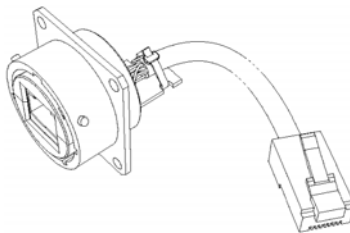
IP67 In line receptacle :
Shell type 2PE and 7PE with
Plastic or Metal Gland



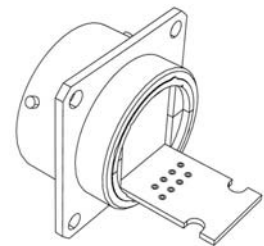
Back Termination



Type 1 : Female RJ45



Type 2 : RJ45 Cordset



Type 2 - 00 : Solder - 8 tined holes

Notes : - Type 1 is also available with 90° female RJ45 : please consult factory for details
- Type 2 without RJ45 plug at the end of the cable is also available : please consult factory for details

Part Number Code

HOW TO ORDER

Series RJField	RJF	2	2	B	03	100 BTX
Shell Type 6 : Plug 6M : Plug, Metal Gland 2 : Receptacle, 4 mounting holes 2PE : IP67 In line Receptacle, 4 mounting holes 2PEM : IP67 In line Receptacle, 4 mounting holes, Metal Gland 7 : Receptacle, Hexagonal nut mounting 7PE : IP67 In line Receptacle, Hexagonal nut mounting 7PEM : IP67 In line Receptacle, Hexagonal nut mounting, Metal Gland Back Terminations (For Receptacles only) 1 : Female RJ45 2 : RJ45 Cordset Shell Finishes B : Black Coating A : Hard Anodic Coating N : Nickel (Note : with this version, the inserts are metallized) G : Olive Drab Cadmium (Note : with this version, the inserts are metallized) 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] 00 : 8 tined holes at the rear of the PCB to solder the cable Cabling Configuration (For "2" Receptacles only) 100BTX : 10/100 Base TX 568A 568B						

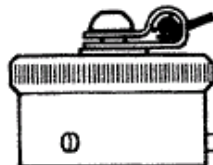
Examples :

- Black Plug: RJF 6 B
- Black square flange receptacle, Female RJ45 Back termination: RJF 2 1 B
- Olive Drab Cadmium jam nut receptacle, 1.5 m [59.05"] 100 BTX cordset termination: RJF 7 2 G 15 100BTX
- Black in line square flange receptacle, 30 cm [11.81"] 568B cordset termination: RJF 2PE 2 B 03 568B
- Nickel jam nut receptacle, solder termination: RJF 7 2 N 00

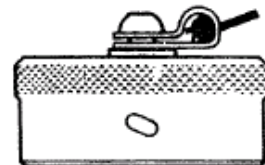
Accessories

• Metallic Caps

RJFC	2	B
Connector Type 6 : Plug 2 : Receptacle - 4 mounting holes 7 : Receptacle - Hexagonal nut mounting Finishes B : Black Coating A : Hard Anodic coating N : Nickel G : Olive Drab Cadmium		



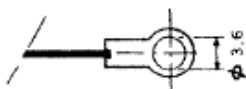
Plug Cap



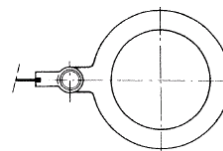
Receptacle Cap



Plug cap end



Type 2 receptacle end

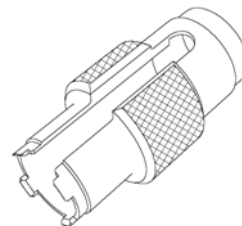


Type 7 receptacle end

• Panel Gasket for type 2 Receptacle (Thickness : 0.6mm [.024]) : Part No. JE 18

• Insert removal tool : Part No. RJF ODE

• Cat5 and 5e cordsets with reinforced jacket for harsh environments applications (shocks, oils, fuel, ...).
Please consult corresponding data sheet.



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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