RJF 544

Ethernet Connection System for Harsh Environment The Industrial Ethernet Solution



Description

The RJField 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
- Improved EMI Protection

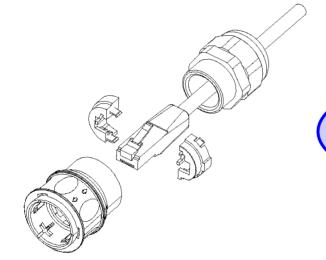
With the patented RJStop® system you can use **a standard RJ45 cordset** in a protective composite plug which will protect it from shocks, dust and fluids.

No hazardous in-field cabling and grounding!



RJF awarded "Best Automatic Control Component"

NEW
>http://www.RJField.com



Transform your RJ45 cordset into a Push Pull IP67 Connector!

This RJF 544 plug is connected into a receptacle, using a **quick** user-friendly **Push Pull** coupling mechanism.

- 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, a metallized (Ni) version of the RJF 544 receptacle is available and transmits the shielding directly to the panel.

Applications

- Telecom Equipments
- Video Controls
- Robotics
- Industrial Process Control
- CNC Machines
- Special Machines
- Motion Control
- Tele-maintenance

Amphenol ®

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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

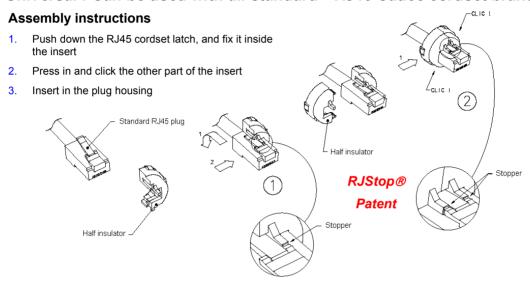
Mechanical

- · Quick Push Pull coupling
- · RJ45 cordset retention in the plug: 100 N in the axis
- · Mating cycles: 500 min

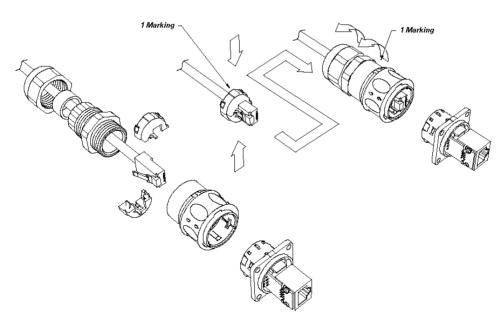
Environmental Protection

- Sealing: IP67 with recommended 5 to 12 mm cable diameter
- · Salt Spray > 1000 h
- Fire Retardant / Low Smoke : UL94 V0 and NFF 16102, DIN 5510-2
- Vibrations: 10 500 Hz, 10 g, 3 axes: no discontinuity > 10 nano s.
- Thermal Shock: 5 cycles at -40°C / +100°C
- Operating Temperature: 40°C / +85°C

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



Easy and Safe : No field cabling tool required



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

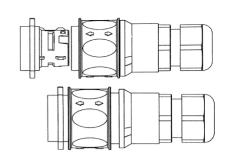


Locking and Unlocking sequences

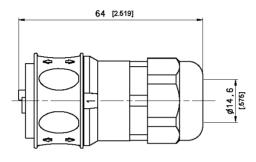
In unlocked position, the locking ring cannot move forward.

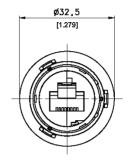
Once the plug has been inserted into the receptacle, the locking ring is free and can be pushed forward.

The connector is unlocked by pulling back the locking ring, and withdrawing the plug.

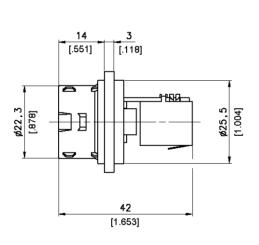


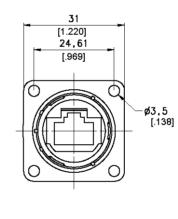
Plug Type 6 Shell with Plastic Gland

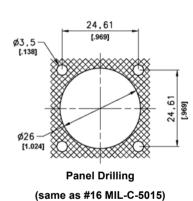




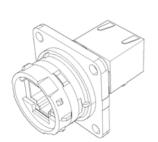
Receptacle Type 2 Shell: Square flange receptacle with 4 mounting holes

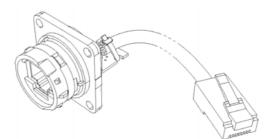


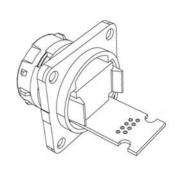




Back Termination







Type 1: Female RJ45

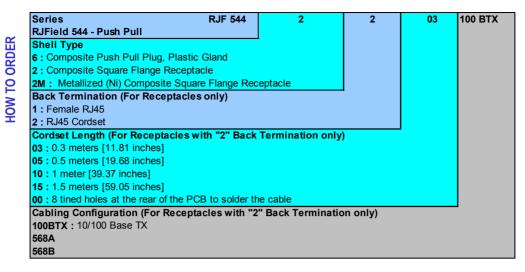
Type 2: RJ45 Cordset

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



Examples: - Plug: RJF 544 6

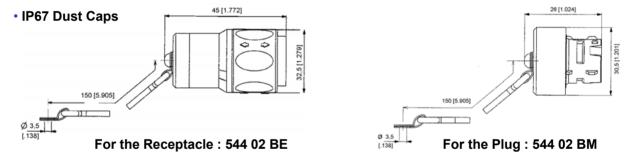
- Square flange receptacle, Female RJ45 Back termination: RJF 544 21

- Metallized Square flange receptacle, Female RJ45 Back termination: RJF 544 2M 1

- Square flange receptacle, 1,5m [59.05"] 100 BTX cordset termination: RJF 544 22 15 100BTX

- Square flange receptacle, solder termination : RJF 544 22 00

Accessories



Panel Gasket (Thickness: 1 mm [.039]): Part No. 544 02 JE





 Cat5 and 5e cordsets with reinforced jacket to be used in harsh environments (shocks, oils, fuel,...). Please consult corresponding data sheet.

