RJF 544

Ethernet Connection System for Harsh Environment – Industrial Ethernet





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 !



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

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

Applications

- Telecom Equipments
- Video Control
- Robotics

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

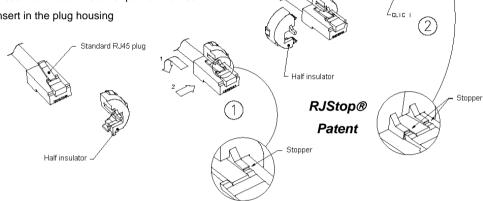
Environmental Protection

- Sealing : IP67
- Salt Spray > 1000 h
- Fire Retardant / Low Smoke : UL94 V0 and NFF 16102, DIN 5510-2
- 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

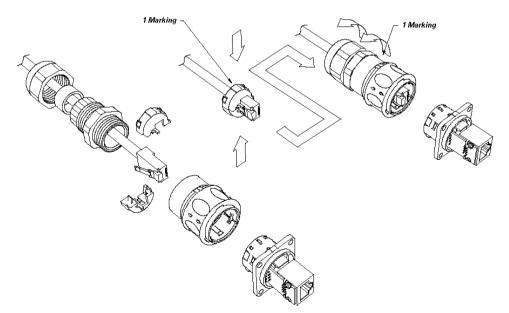
Universal : Can be used with all standard * RJ45 Cat.5e cordset brands

Assembly instructions

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



Easy and Safe : No field cabling tools required





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* 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.

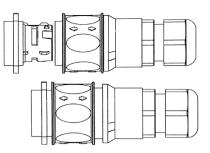


Locking and Unlocking sequences

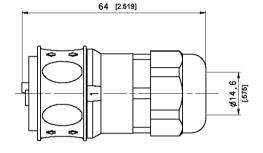
In unlocked position, the locking ring cannot move forward.

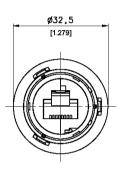
Once the plug has been inserted into the receptacle, the locking ring is free and can be pushed forward.

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

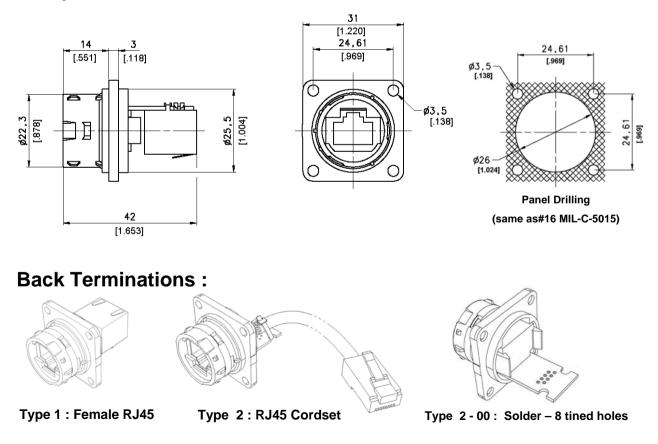


Plug Type 6 Shell with Plastic Gland





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



Notes: - Type 2 without RJ45 plug at the end of the cable are also available : consult factory - Type 1 also availble with 90° female RJ45



Part Number Code

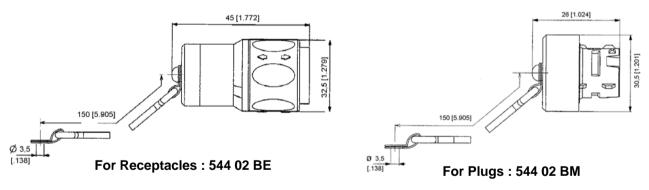
Series	RJF 544	2	2	03	100 BTX
RJField 544 - Push Pull					
Shell Type					
6 : Composite Push Pull Plug, Plast	ic Gland				
2 : Composite Square Flange Recep	tacle				
2M : Metallized (Ni) Composite Squ	are Flange Rec	eptacle			
Back Terminations (For Receptac	les only)				
1 : Female RJ45					
2: RJ45 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]					
00:8 tined holes at the rear of the F	CB to solder th	ne cable			
Cabling Configuration (For "2" Re	ceptacles onl	y)			-
100BTX : 10/100 Base TX					
568A					
568B					

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

IP67 Dust Caps



- Panel Gasket (Thickness : 1 mm [.039]) : Part No. 544 02 JE
- Plug Insert removal tool : Part No. 5440 OT 02

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

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