RJF RB

Ethernet Connection System for Harsh Environment – Industrial Ethernet

Description

RJ Field allows you to use an Ethernet Class D / Cat. 5e and Class E/Cat 6 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: RJF Field awarded « Component Product of the Year »



Transform your RJ45 cordset into a cicular reverse bayonet IP67 Connector!

This RJF RB plug is connected into a receptacle, using a quick reverse bayonet coupling mechanism.

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

- another female RJ45
- a right angle female RJ45
- a RJ45 cordset
- a cat 6 IDC modules (will be available end april 2006)
- a straight PCB termination (will be available end Q1 2006)

The RJ45 cordset shielding is transmitted to the RJ45 receptacle through lateral grounding fingers.

Amphenol Socapex Promenade de l'Arve - BP 29 - 74311 THYEZ - F Tel.: + 33 (0) 4 50 89 28 00 - Fax: + 33 (0) 4 50 96 29 75 http://www.rjfield.com

Applications

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

Amphenol®



Main Characteristics

Data Transmission

• 10 BaseT, 100 BaseTX and 1000 BaseT networks Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801 or Cat6 per TIA/EIA 568B and ClassE per ISO/IEC 11801

Mechanical

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

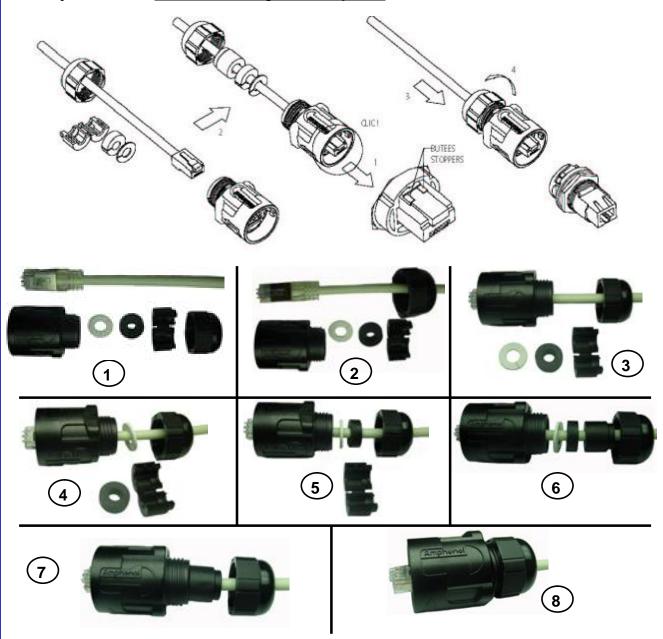
Environmental Protection

- · 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

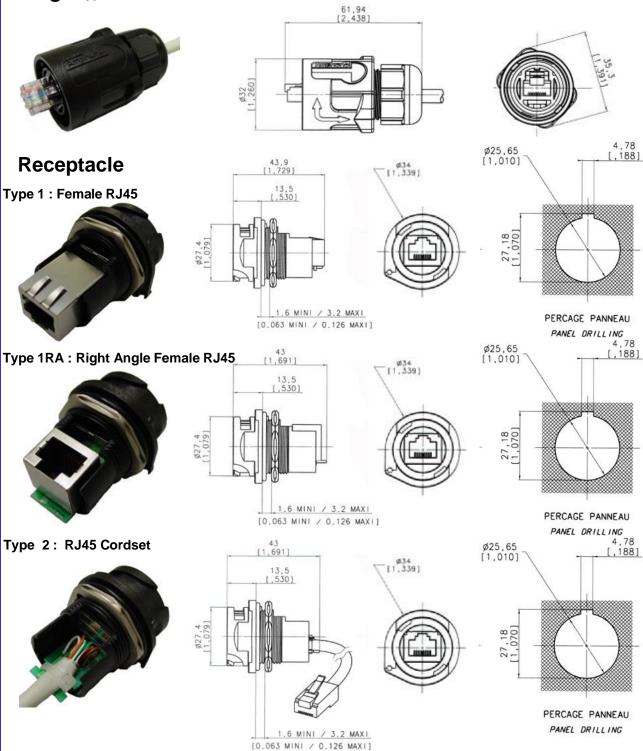
Easy and Safe : No field cabling tools required







Plug Type 6 Shell with Plastic Gland



Type 3: IDC Cat6 termination (will be available april 2006)



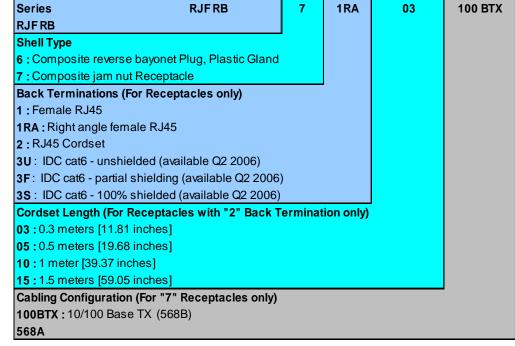
Product dimensions to come soon



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Part Number Code

HOW TO ORDER



Examples: - Plug: RJF RB 6

- Receptacle, female RJ45 Back termination: RJF RB 71
- Receptacle, right angle female RJ45 Back termination: RJF RB 71RA - Receptacle, 1,5m [59.05"] RJ45 cordset termination: RJF RB 72 15 100BTX

Other receptacle type:



Product dimensions to come soon

Important note: Straight PCB termination:

The customer PCB design will define the receptacle category. Part number: RJF RB 75

Remark: This receptacle type will be available end of Q1 2006

Accessories

IP67 Dust Caps

Cap picture not available.

To come soon

Product dimensions to come soon

Remark: not available for plug

Cap for Receptacles: **RJF RB C7**

We also offer Cat5e cordsets with a reinforced jacket to be used in harsh environments (shocks,

oils, fuel,...) - double shielding - Please consult our website to download our dedicated datasheet.