

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 »*

**RJFRB series is
ROHS compliant**



**Transform your RJ45
cordset into a circular
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
- a straight PCB termination

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
- 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

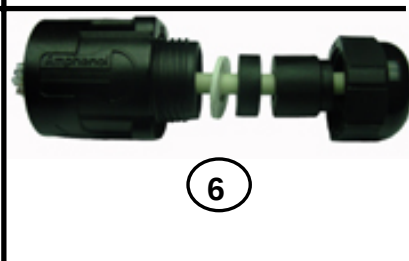
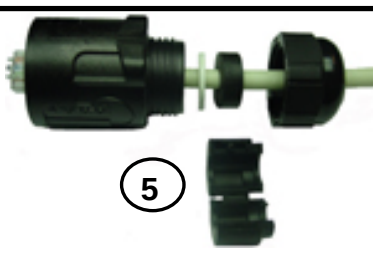
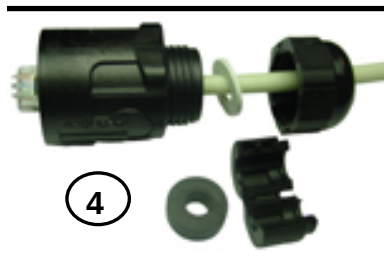
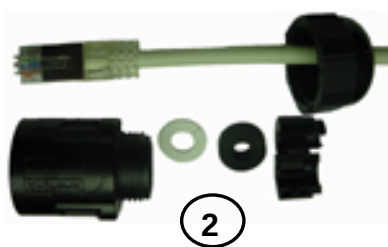
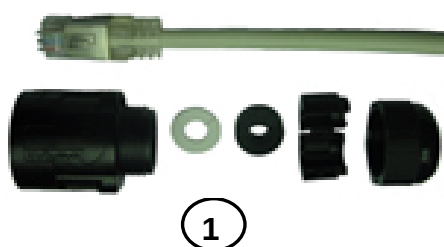
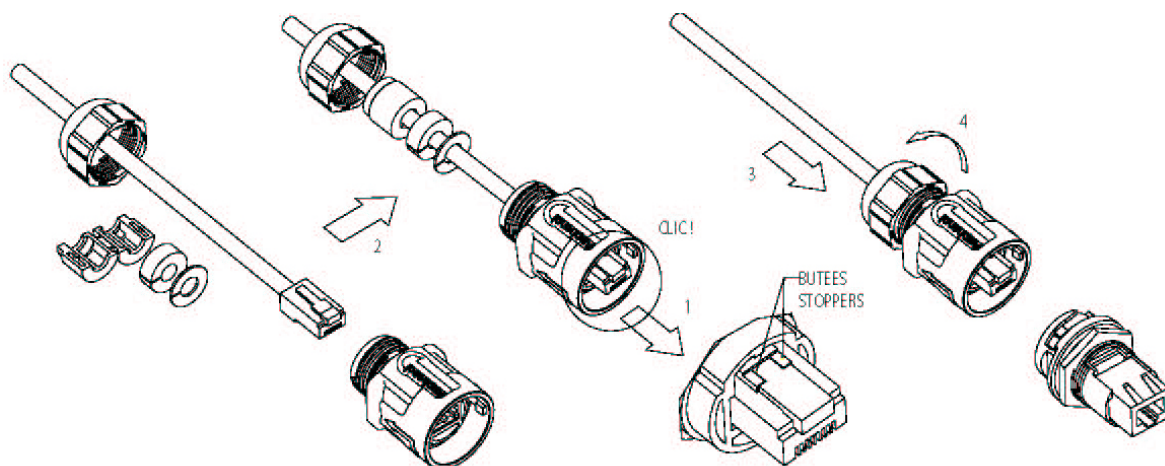
Environmental Protection

- 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

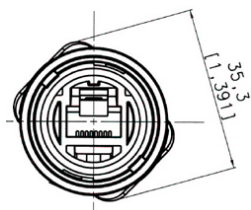
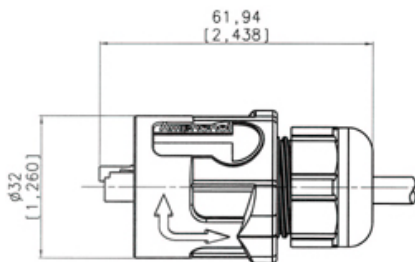
Universal : Can be used with all standard * RJ45 Cat.5e cordset brands

Easy and Safe : No field cabling tools required



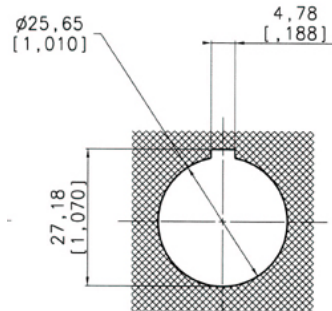
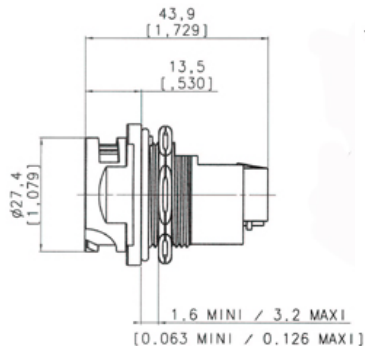
* The RJStop® system allows the use of standard RJ45 cordsets whatever the Brand.

Plug Type 6 Shell with Plastic Gland



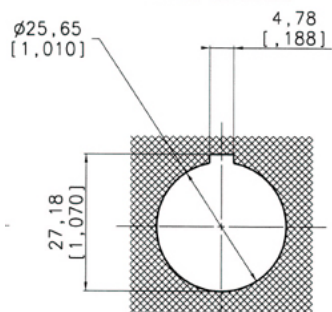
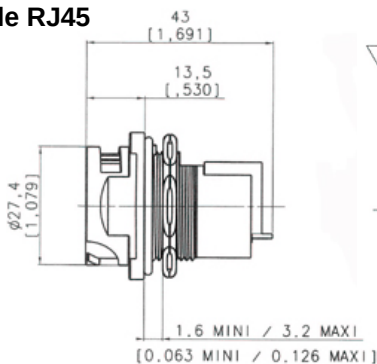
Receptacle

Type 1 : Female RJ45
(front mounting)



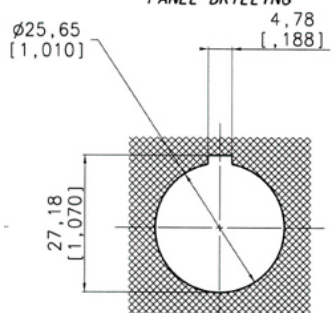
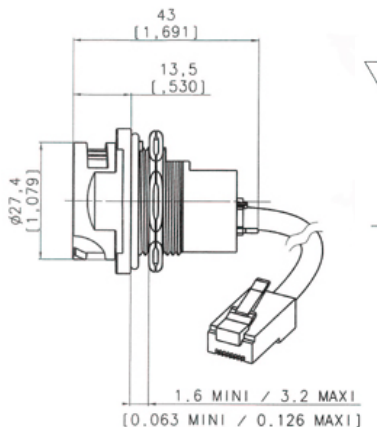
PERCAGE PANNEAU
PANEL DRILLING

Type 1RA : Right Angle Female RJ45
(front mounting)



PERCAGE PANNEAU
PANEL DRILLING

Type 2 : RJ45 Cordset
(front mounting)

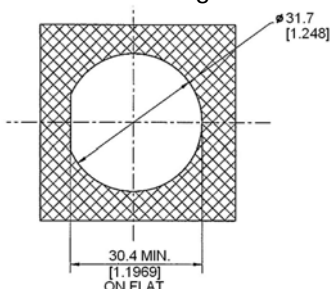


PERCAGE PANNEAU
PANEL DRILLING

Type 3 : IDC Cat6 termination
(rear mounting)



Panel Drilling



Part Number Code

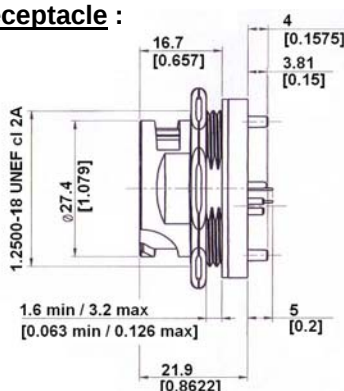
HOW TO ORDER

Series	RJFRB	7	1RA		
RJFRB					
Shell Type					
6 : Composite reverse bayonet Plug, Plastic Gland					
7 : Composite jam nut Receptacle					
Back Terminations (For Receptacles only)					
1 : Female RJ45					
1RA : Right angle female RJ45					
2 : RJ45 Cordset					
3U : IDC cat6 - unshielded					
3F : IDC cat6 - partial shielding					
3S : IDC cat6 - 100% shielded					
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 "7" Receptacles only)					
100BTX : 10/100 Base TX (568B)					
568A					

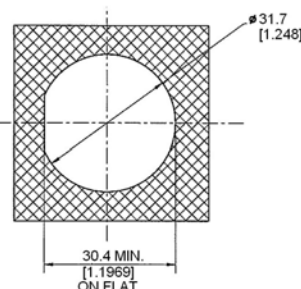
Examples :

- 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

Straight PCB termination receptacle : (rear mounting)



Panel Drilling



Part number : **RJF RB 75**

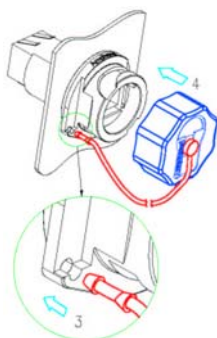
For PCB drilling, please consult us : contact@rjfield.com

Important note:

The customer PCB design will define the receptacle category.

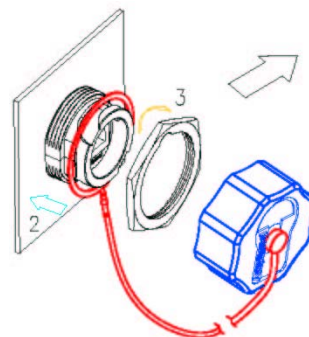
Accessories

- IP67 Dust Caps



Cap for Receptacles RJFRB 71 / 71RA / 72xxx:

RJF RB C7



Cap for Receptacles RJFRB 75 and RJFRB 73x:

RJF RB C75

Remark : **not available for plug**

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.

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<http://www.rjfield.com>

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