

# RJF RB

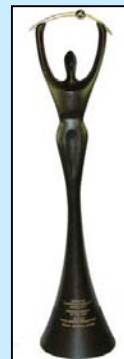
## Ethernet Connection System for Harsh Environment – Industrial Ethernet

### 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.

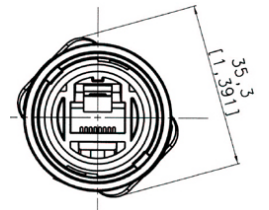
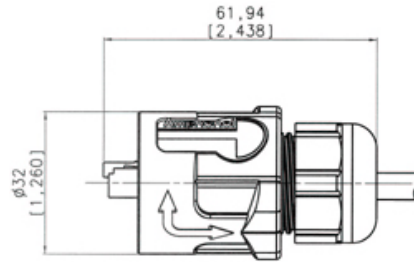
### Applications

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

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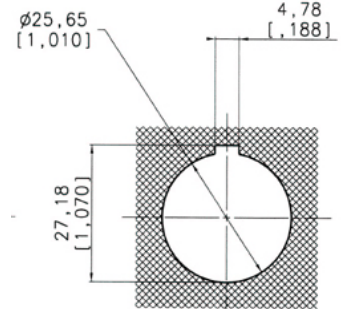
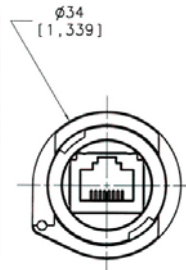
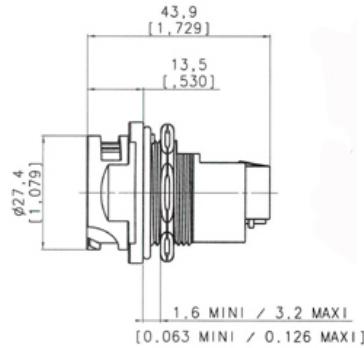
## 2

## Plug Type 6 Shell with Plastic Gland



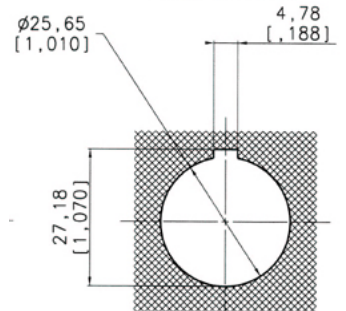
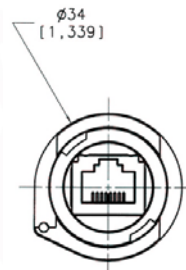
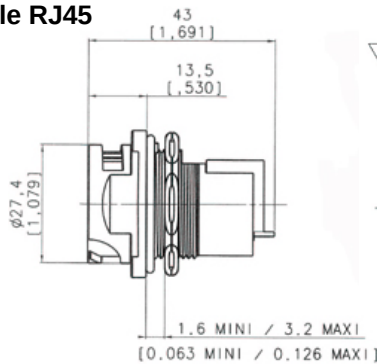
## Receptacle

**Type 1 : Female RJ45**  
(front mounting)



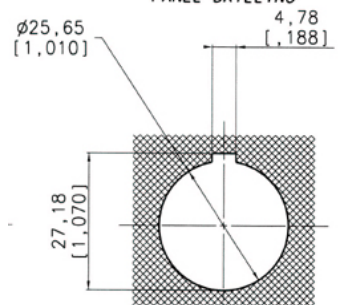
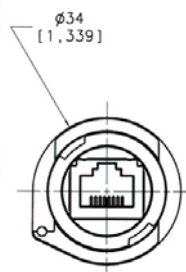
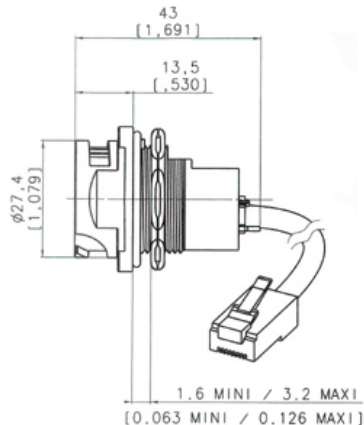
PERCAGE PANNEAU  
PANEL DRILLING

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



PERCAGE PANNEAU  
PANEL DRILLING

**Type 2 : RJ45 Cordset**  
(front mounting)

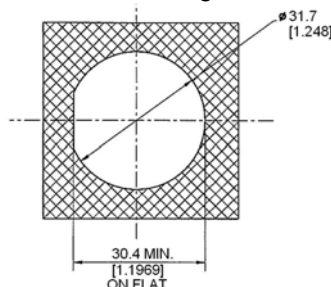


PERCAGE PANNEAU  
PANEL DRILLING

**Type 3 : IDC Cat6 termination**  
(rear mounting)



Panel Drilling





# Part Number Code

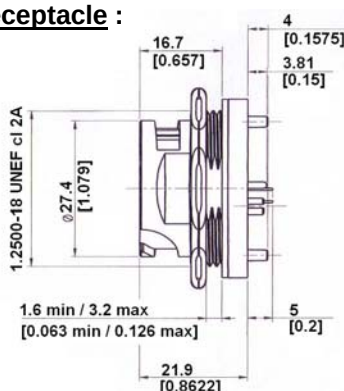
HOW TO ORDER

|                                                                 |       |   |     |  |  |
|-----------------------------------------------------------------|-------|---|-----|--|--|
| 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)



Part number : **RJF RB 75**

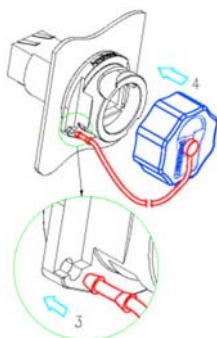
For PCB drilling, please consult us : [contact@rjfield.com](mailto:contact@rjfield.com)

## Important note:

The customer PCB design will define the receptacle category.

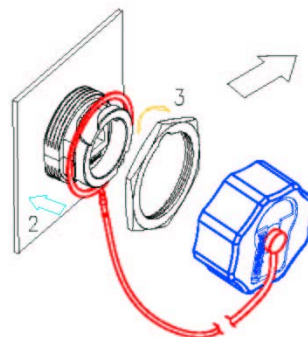
## Accessories

- 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.

Amphenol Socapex Promenade de l'Arve – BP 29 – 74311 THYEZ - F

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<http://www.rjfield.com>

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