

# RJ Field

## Ethernet Connection System for Harsh Environment

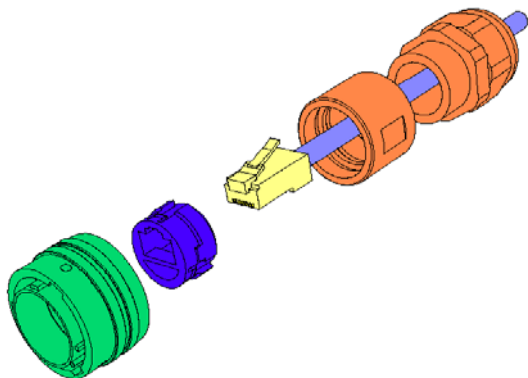
### Description

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
- Mechanical Coding / Polarization (4 positions)

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

No hazardous in-field cabling and grounding !



**Transform your RJ45  
cordset into a Harsh  
Environment Connector !**

This metallic plug is connected into a receptacle, using a fast  $\frac{1}{4}$  turn bayonet coupling mechanism (MIL-C-26482 type) providing both “audible and visual” coupling.

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

- another female RJ45
- a RJ45 cordset
- IDC modules

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

For an outstanding EMI protection, the conductive plating versions (Ni, Cd) with metallized receptacle inserts, transmit the shielding to the connector shells and finally to the panel.

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### Applications

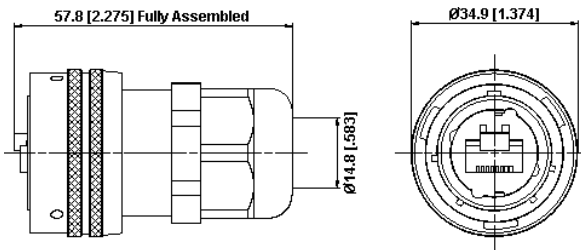
- Robotics
- Industrial Process Control
- CNC Machines
- Special Machines
- Motion Control
- Data Acquisition and Transmission in Harsh Environment
- Tele-maintenance

**Amphenol®**

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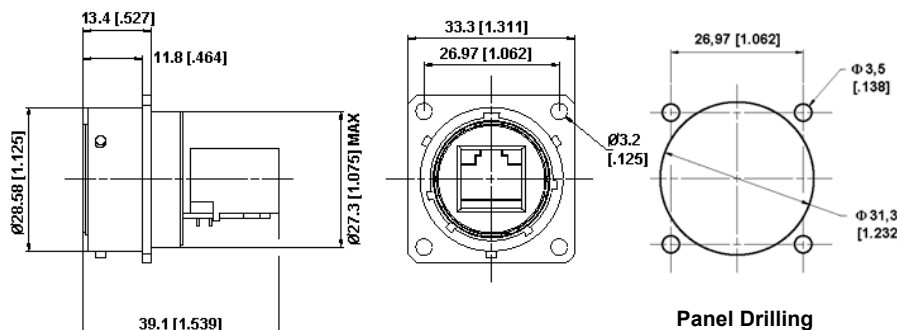
## Plug :

Shell type 6  
With Plastic or Metal Gland

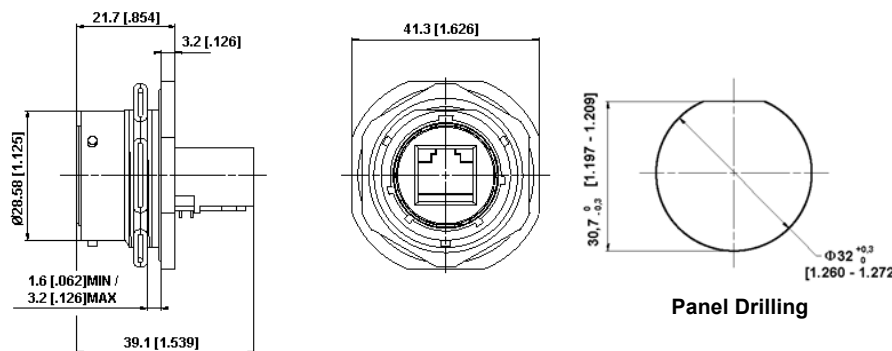


## Receptacles :

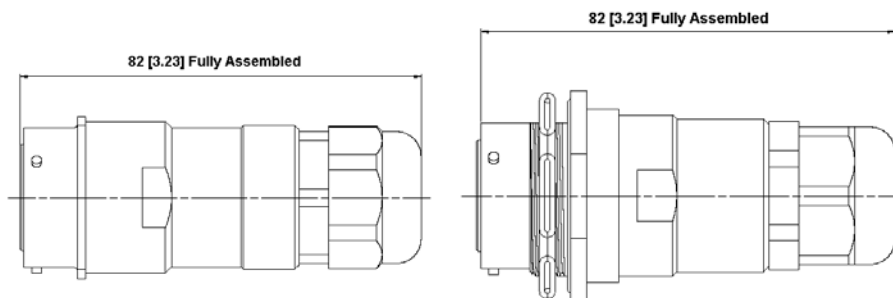
Square flange receptacle  
4 mounting holes : Shell type 2



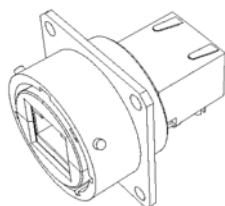
Jam nut receptacle  
Hexagonal Nut mounting :  
Shell type 7



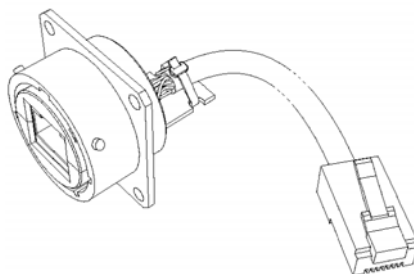
IP67 In line receptacles :  
Shell type 2PE and 7PE with  
Plastic or Metal Gland



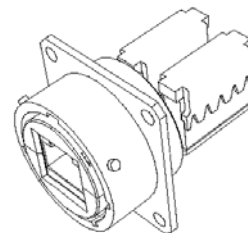
## Back Terminations :



Type 1  
Female RJ45



Type 2  
RJ45 Cordset



Type 3  
IDC Modules

# Part Number Code

HOW TO ORDER

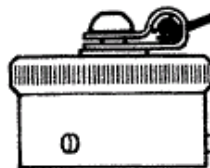
|                                                                               |     |   |   |   |    |         |
|-------------------------------------------------------------------------------|-----|---|---|---|----|---------|
| Series                                                                        | RJF | 2 | 2 | B | 03 | 100 BTX |
| RJField                                                                       |     |   |   |   |    |         |
| <b>Shell Type</b>                                                             |     |   |   |   |    |         |
| 6 : Plug, Plastic Gland                                                       |     |   |   |   |    |         |
| 6M : Plug, Metal Gland                                                        |     |   |   |   |    |         |
| 2 : Square Flange Receptacle                                                  |     |   |   |   |    |         |
| 2PE : IP67 In line square flange Receptacle                                   |     |   |   |   |    |         |
| 2PEM : IP67 In line square flange Receptacle, Metal Gland                     |     |   |   |   |    |         |
| 7 : Jam Nut Receptacle                                                        |     |   |   |   |    |         |
| 7PE : IP67 In line Jam Nut Receptacle                                         |     |   |   |   |    |         |
| 7PEM : IP67 In line Jam Nut Receptacle, Metal Gland                           |     |   |   |   |    |         |
| <b>Back Terminations (For Receptacles only)</b>                               |     |   |   |   |    |         |
| 1 : Female RJ45                                                               |     |   |   |   |    |         |
| 2 : RJ45 Cordset                                                              |     |   |   |   |    |         |
| 3 : IDC Modules                                                               |     |   |   |   |    |         |
| <b>Shell Finishes</b>                                                         |     |   |   |   |    |         |
| B : Black Coating                                                             |     |   |   |   |    |         |
| A : Hard Anodic Coating                                                       |     |   |   |   |    |         |
| N : Nickel (Note : with this version, the inserts are metallized)             |     |   |   |   |    |         |
| G : Olive Drab Cadmium (Note : with this version, the inserts are metallized) |     |   |   |   |    |         |
| <b>Cordset Length (For Receptacles with "2" Back Termination only)</b>        |     |   |   |   |    |         |
| 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]                                                |     |   |   |   |    |         |
| <b>Cabling Configuration (For "2" Receptacles only)</b>                       |     |   |   |   |    |         |
| 100BTX : 10/100 Base TX                                                       |     |   |   |   |    |         |
| 568A                                                                          |     |   |   |   |    |         |
| 568B                                                                          |     |   |   |   |    |         |

- Examples :
- Black Plug: RJF 6 B
  - Black square flange receptacle, Female RJ45 Back termination: RJF 2 1 B
  - Black jam nut receptacle, 1.5m [59.05"] 100 BTX cordset termination: RJF 7 2 B 15 100BTX
  - Black in line square flange receptacle, 30cm [11.81"] 100BTX cordset termination: RJF 2PE 2 B 03 100BTX

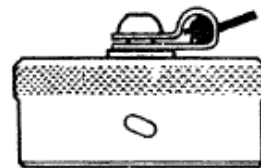
## Accessories

### • Metallic Caps

|                              |   |   |
|------------------------------|---|---|
| RJFC                         | 2 | B |
| <b>Connector Type</b>        |   |   |
| 6 : Plug                     |   |   |
| 2 : Square Flange Receptacle |   |   |
| 7 : Jam Nut Receptacle       |   |   |
| <b>Finishes</b>              |   |   |
| B : Black Coating            |   |   |
| A : Hard Anodic coating      |   |   |
| N : Nickel                   |   |   |
| G : Olive Drab Cadmium       |   |   |



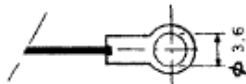
Plug Cap



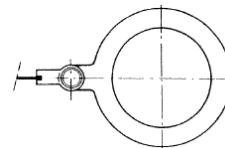
Receptacle Cap



Plug cap end



Type 2 receptacle end



Type 7 receptacle end

- Panel Gasket for type 2 Receptacle (Thickness : 0.6mm [.024]) : Part No. **JE 18**

- Inserts removal tool : Part No. **ODE RJF**



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