

# RJF 544

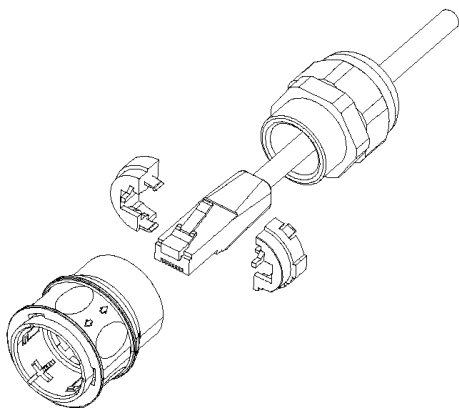
## Ethernet Connection System for Harsh Environment

### 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
- 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 !



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
- IDC modules

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.



Transform your RJ45  
cordset into a **Push Pull**  
IP67 Connector !

### Applications

- Telecom Equipments
- 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

## Mechanical

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

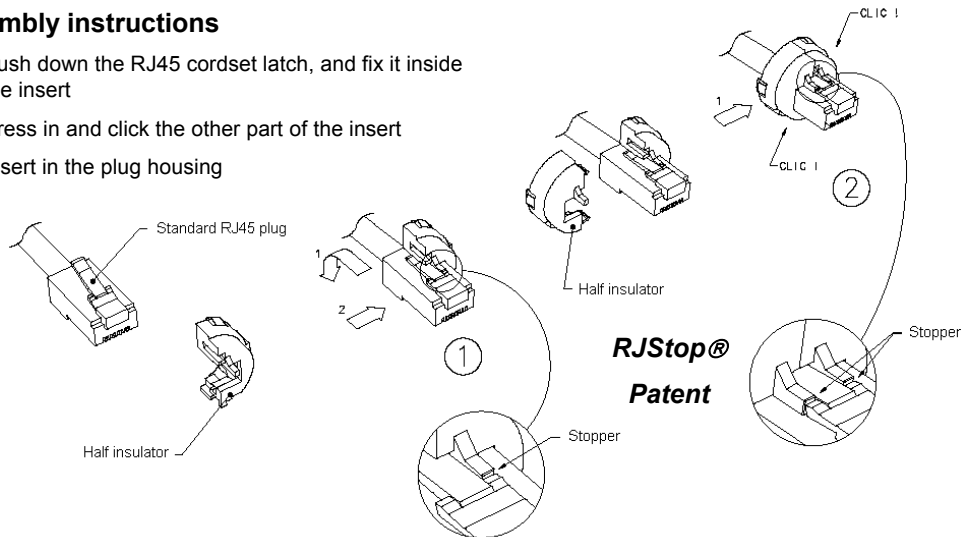
## Environmental Protection

- 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

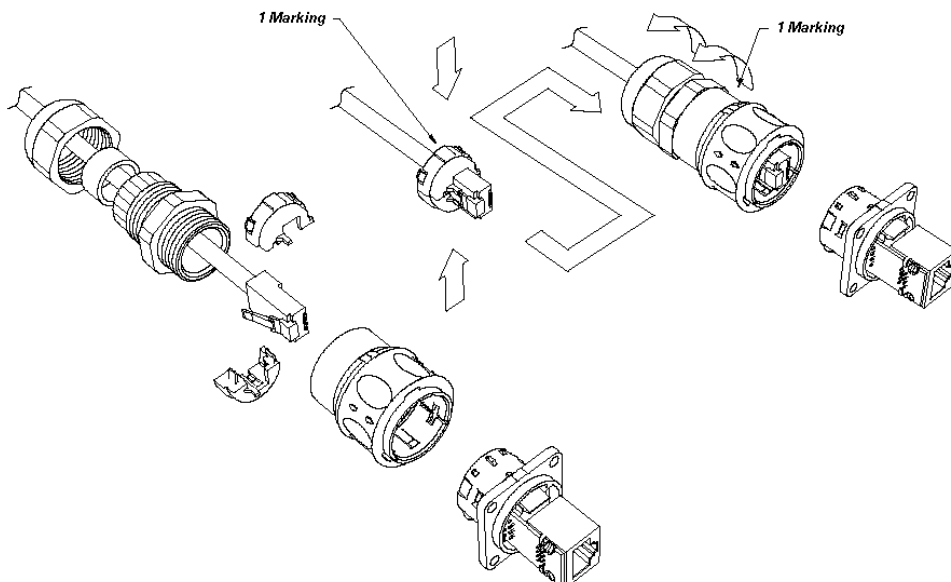
**Universal : Can be used with all standard \* RJ45 Cat.5e cordset brands**

## Assembly instructions

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



**Easy and Safe : No field cabling tools required**



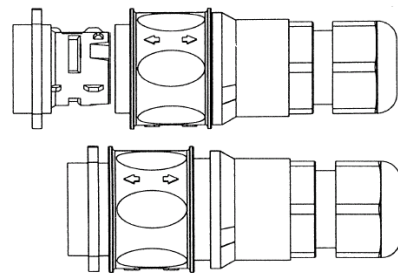
\* The RJStop® system allows the use of standard RJ45 cordsets regardless their Brand. However, Amphenol Socapex can provide Cat5-5e cordset with reinforced jacket to be used in harsh environments (shocks, oils, fuel,...). Please consult factory.

# Locking and Unlocking sequences

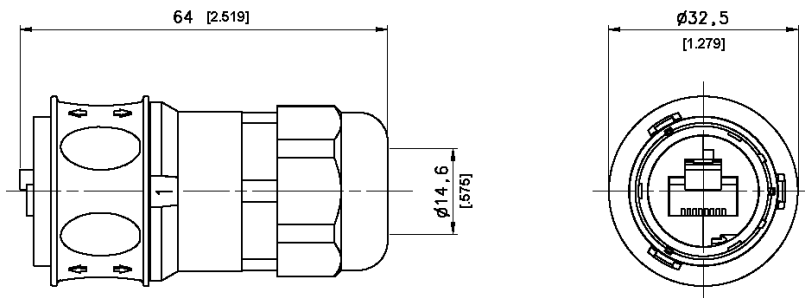
In unlocked position, the locking ring cannot move forward.

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

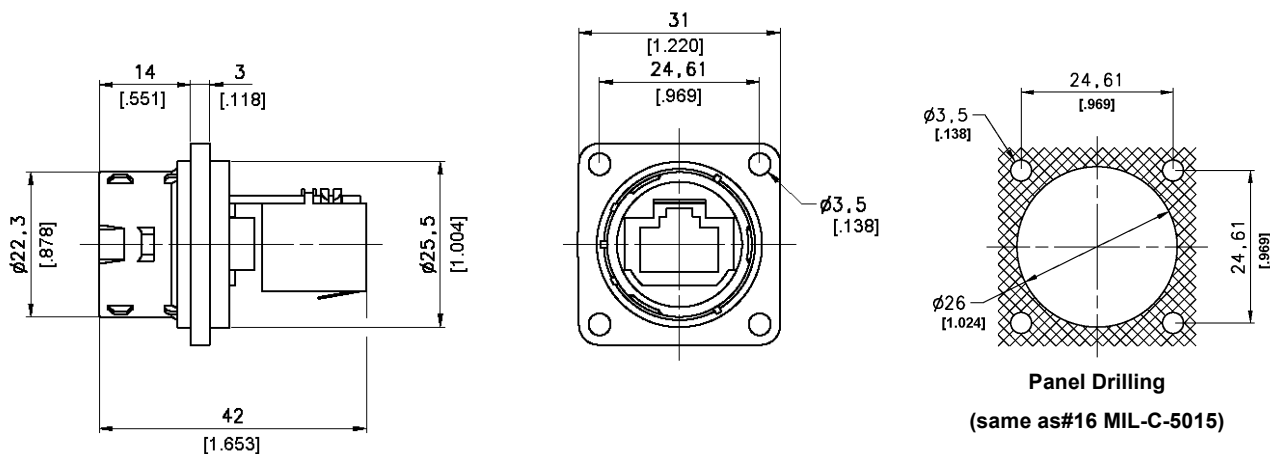
The connector is unlocked by pulling back the locking ring, and withdrawing the plug.



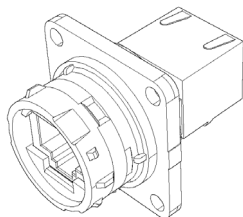
## Plug Type 6 Shell with Plastic Gland



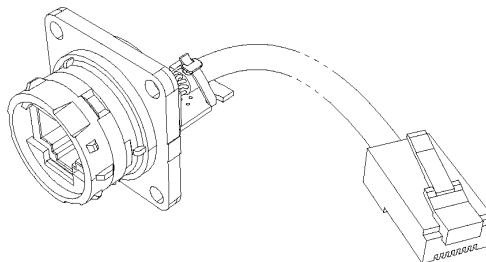
## Receptacle Type 2 Shell : Square flange receptacle with 4 mounting holes



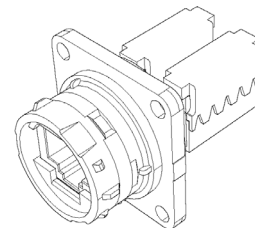
## Back Terminations :



Type 1  
Female RJ45



Type 2  
RJ45 Cordset



Type 3  
IDC Modules

# Part Number Code

HOW TO ORDER

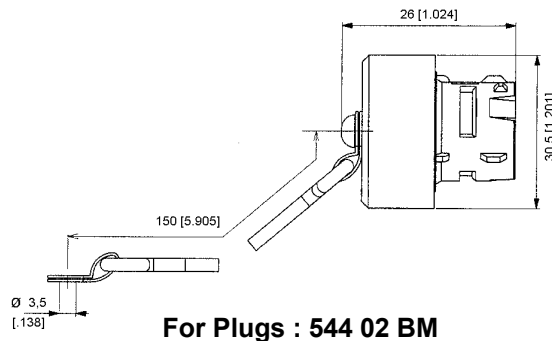
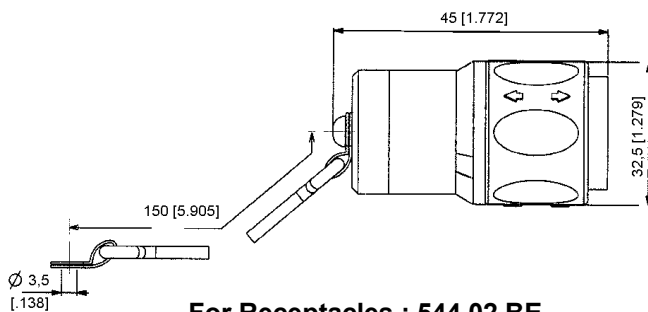
|                                                                        |         |   |   |    |         |
|------------------------------------------------------------------------|---------|---|---|----|---------|
| Series                                                                 | RJF 544 | 2 | 2 | 03 | 100 BTX |
| RJField 544 - Push Pull                                                |         |   |   |    |         |
| <b>Shell Type</b>                                                      |         |   |   |    |         |
| 6 : Composite Push Pull Plug, Plastic Gland                            |         |   |   |    |         |
| 2 : Composite Square Flange Receptacle                                 |         |   |   |    |         |
| 2M : Metallized (Ni) Composite Square Flange Receptacle                |         |   |   |    |         |
| <b>Back Terminations (For Receptacles only)</b>                        |         |   |   |    |         |
| 1 : Female RJ45                                                        |         |   |   |    |         |
| 2 : RJ45 Cordset                                                       |         |   |   |    |         |
| 3 : IDC Modules                                                        |         |   |   |    |         |
| <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 :

- 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

## 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.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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