RJ Field – RJF TV
Environmentaly Sealed Receptacles

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Description

RJField allows you to use an Ethernet D Class / Cat.5e connection for 10 BaseT, 100 BaseTX or 1000 BaseT networks in harsh environments:
• Sealed against fluid and dust (IP67) in mated <u>and</u> unmated conditions
• Shock, Vibration and Traction resistant
• No cabling operation in field and <u>no tools required</u>
• 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.
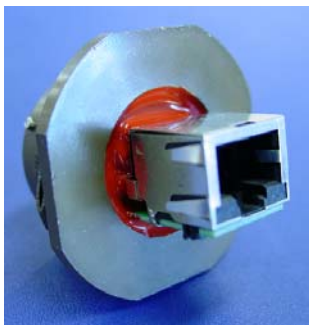No hazardous in-field cabling and grounding!

Sealed Receptacle

In some applications, a **transversal sealing** for the receptacle is a « must ». This will prevent fluids and dust to go through the receptacle when plug or cap are not mated to the receptacle.
The version "S" (sealed solution) has a compound at the rear of the receptacle as shown on the examples below.
This feature is available both in RJF and RJF TV shells (please consult the relevant data sheet for product details and accessories).
In addition, the **Sealed RJF TV** have been successfully tested in **very high vibration** corresponding to airplanes applications.
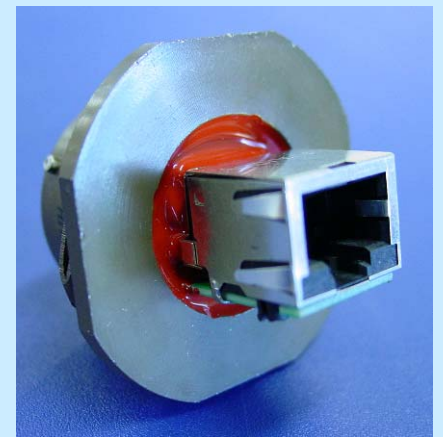
Examples :

RJF 7SA1 G

RJF TV 7SA2 G 05 100BTX

Environmental sealing:
Protection of equipment against ingress of solid foreign bodies and dust as well as water (temporary dive-in)
IP (International Protection) and 2 figures (e.g. 67) means protection class.

RJ Field receptacle sealed to IP67

Electronica 2004 :
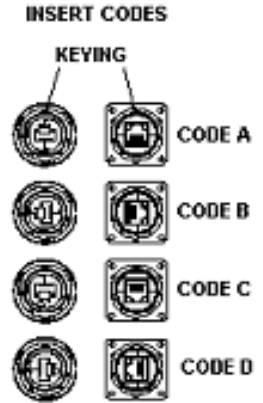*RJField awarded « Component Product of the Year »*

Applications
• Outdoor Equipments
• Airplanes Equipments
• Tactical Radios
• Shelters
• Rugged computers
• Data Acquisition and Transmission in Harsh Environment

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Main Characteristics

- Same as the RJF and RJF TV series … a complete IP67 sealing feature of the receptacle (even with no plug or no protective cap mated) is added.

IP 67 means immersion during 30 min. under 1 meter of water (watertight).

- Outside dimensions are the same as the standard RJF and RJF TV series.

- **Important Note** : Due to the compound, the coding of the connector must be done in the factory : use the codes A, B, C or D in the Part Number.

- **Vibrations** : The compounded versions of the RJF TV have been tested in vibration following the NAS 1599 Aeronautic specification (Ambient temperature) :

5 - 3000 Hz, 20g, 2,5 mm [.1 inch] double amplitude, 3 axes, 12 hours

Note : This specification exceeds MIL-C-26500 requirements.

INSERT CODES

KEYING

CODE A
CODE B
CODE C
CODE D

Part Number Code

HOW TO ORDER

| | RJF TV | 7S | A | 2 | G | 03 | 100 BTX |

Series
RJF : MIL-C-26482 bayonet
RJFTV : MIL-C-38999 series III

Shell Type
2S : Sealed Square Flange Receptacle
7S : Sealed Jam Nut Receptacle

Coding
A,B,C,D

Back Terminations (For Receptacles only)
1 : Female RJ45
2 : RJ45 Cordset

Shell Finishes
B : Black Coating
N : Nickel (Note : with this version, receptacle inserts are metallized)
G : Olive Drab Cadmium (Note : with this version, receptacle inserts are metallized)

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 "2" Receptacles only)
100BTX : 10/100 Base TX
568A
568B

Examples : - Bayonet, A coding, Olive Drab Cadmium Jam Nut sealed receptacle with female RJ45 Back termination : RJF 7SA 1 G
- Bayonet, A coding, Black square flange sealed receptacle, Female RJ45 Back termination: RJF 2SA 1 B
- Series III, A coding, Olive Drab Cadmium Jam Nut sealed receptacle, 1.5m [59.05"] 100 BTX cordset : RJF TV 7SA 2 G15 100BTX

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