

RJF/RJF TV

Environmentally Sealed Receptacles, Transversally sealed Receptacles



In some applications, a transversal sealing for the receptacle is a « must ». This will prevent fluids and dust from going through the receptacle when plug or cap are not mated to the receptacle.

The sealed solution (version "S") 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).

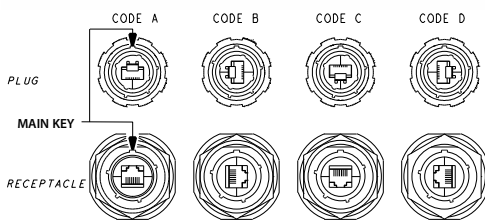
In addition, the Sealed RJF TV has been successfully tested in very high vibration corresponding to airplane applications.

- Applications**
- Outdoor Equipment
 - Airplanes Equipment
 - Tactical Radios
 - Shelters
 - Rugged computers
 - Data Acquisition and Transmission in Harsh Environments
- Data Transmission**
- 10 BaseT, 100 BaseTX and 1000 BaseT networks
Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

- Main characteristics**
- Same as the RJF and RJF TV series... a complete IP68 sealing of the receptacle (even with no plug or no protective cap mated) is added.
 - Outside dimensions are the same as the standard RJF and RJF TV series.
 - 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.

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: **see below**.



Example :
RJFTV 2S A2 G 15 100BTX

Part Number Code

Series		RJF TV	7S	A	2	G	03 100BTX
RJF:	MIL-DTL-26482 H bayonet						
RJFTV:	MIL-DTL-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						
1RA:	Right Angle Female RJ45						
2:	RJ45 Cordset						
Shell material & Finish							
B:	Aluminium shell - black coating (Only available for RJF Series) - ROHS compliant						
N:	Aluminium shell - nickel plating - ROHS compliant (note: receptacle inserts are metallized)						
G:	Aluminium shell - olive drab cadmium plating (note: receptacle inserts are metallized)						
BZ:	Marine bronze shell (only available for RJFTV) (receptacle inserts are metallized) - ROHS compliant						
Cordset Length (For Receptacles with "2" Back Termination only)							
03 100 BTX:	0.3m [11.81 inches]						
05 100 BTX:	0.5m [19.68 inches]						
10 100 BTX:	1m [39.37 inches]						
15 100 BTX:	1.5m [59.05 inches]						

Remark: **Cabling configuration:** 100 BTX = 568B (Ethernet specification)

- 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

RJF/RJF TV

Hermetic receptacles



In some applications, a transversal hermiticity for the receptacle is a « must ». This will prevent gas from going through the receptacle when plug or cap are not mated to the receptacle. The hermetic solution (version "H") 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). Helium leakage is less than 1.10^{-6} cm³ per second [0.1 micron cubic ft per hour] at one bar [15 psi] pressure differential.

- Applications**
- Outdoor Equipment
 - Airplanes Equipment
 - Tactical Radios
 - Shelters
 - Rugged computers
 - Data Acquisition and Transmission in Harsh Environments

Data Transmission
10 BaseT, 100 BaseTX and 1000 BaseT networks
Cat 5e per TIA/EIA 568B and ClassD per ISO/IEC 11801

- Main characteristics**
- Same as the RJF and RJF TV series ... a complete IP68 sealing of the receptacle (even with no plug or no protective cap mated) is added.
 - Outside dimensions are the same as the standard RJF and RJF TV series.
 - 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.

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: **see below.**

PLUG

MAIN KEY

RECEPTACLE

CODE A

CODE B

CODE C

CODE D

Example :
RJFTV 2H A2 N 15 100BTX

Part Number Code

Series	RJF TV	7H	A	2	G	03 100BTX
RJF:	MIL-DTL-26482 H bayonet					
RJFTV:	MIL-DTL-38999 series III					
Shell Type						
2H:	Transversally Sealed and Hermetic Square Flange Receptacle					
7H:	Transversally Sealed and Hermetic Jam Nut Receptacle					
Coding						
A,B,C,D						
Back Terminations (For Receptacles only)						
1:	Female RJ45					
1RA:	Right Angle Female RJ45					
2:	RJ45 Cordset					
Shell material & Finish						
B:	Aluminium shell - black coating (Only available for RJF Series) - ROHS compliant					
N:	Aluminium shell - nickel plating - ROHS compliant (note: receptacle inserts are metallized)					
G:	Aluminium shell - olive drab cadmium plating (note: receptacle inserts are metallized)					
BZ:	Marine bronze shell (only available for RJFTV) (receptacle inserts are metallized) - ROHS compliant					
Cordset Length (For Receptacles with "2" Back Termination only)						
03 100 BTX:	0.3m [11.81 inches]					
05 100 BTX:	0.5m [19.68 inches]					
10 100 BTX:	1m [39.37 inches]					
15 100 BTX:	1.5m [59.05 inches]					

Remark: Cabling configuration: 100 BTX = 568B (Ethernet specification)

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