RJF TV







Applications

- Data Acquisition and Transmission in harsh environment
- Railways
- Radars
- Shelters
- Battlefield Communication
- Systems
- Navy

Data Transmission

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

RJFTV allows you to use an Ethernet Class D / Cat. 5e connection for 10 BaseT, 100 BaseTx or 1000 BaseT networks in harsh environments. 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 on-field cabling and grounding!**

Main characteristics

- Sealed against fluids and dusts (IP68)
- Shock, Vibration and Traction resistant
- No cabling operation in field and no tools required
- Mechanical Coding / Polarization (4 positions)
- Improved EMI protection
- Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device
- Robust metallic shells
- RJ45 cordset retention in the plug: 100 N in the axis
- Mating cycles: 500 min
- Compatible with cable diameter from 6 mm [0.236 in] to 13 mm [0.512 in], for smaller diameters please consult us

Environmental Protection

- Sealing: IP68
- Salt Spray: 48h with Aluminium shell Nickel plating
 - > 500h with Aluminium shell Olive drab cadmium plating 1000 h with Marine bronze shell
- Fire Retardant/Low Smoke : UL94 V0 and NF F 16 101 & 16 102
- Vibrations : 10 500 Hz, 10 g, 3 axes: no discontinuity > 10 nano s.
- Compounded versions tested per NAS 1599 (5-3000 Hz, 20g, 12h)
- Shocks: IK06: weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)
- Humidity: 21 days, 43°C, 98% humidity
- Thermal Shock: 5 cycles at -40°C / +100°C
- Temperature Range: -40°C / +85°C

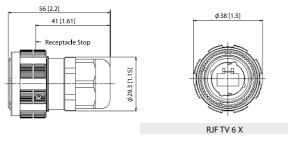
Part	Number	Code

Series RJ Field TV		RJF TV	2	2	G	03 100 BTX		
Shell Type 6: 6M: 2: 2PE: 2PEM: 7: 7PE: 7PE: 7PEM: 2SA, 7SA:	Plug with Plastic gland Plug with Metal gland Square Flange Receptacle Square Flange Receptacle, IP68 backshell, Plastic gland Square Flange Receptacle, IP68 backshell, Metal gland Jam Nut Receptacle, IP68 backshell, Plastic gland Jam Nut Receptacle, IP68 backshell, Metal gland Transversally sealed receptacle (unmated) see page 34							
Back Termin 1: 1RA: 2:	ations (<i>Receptacles only</i>) Female RJ45 Right Angle Female RJ45 RJ45 Cordset							
Shells material & Finish N: Aluminium shell - nickel plating (receptacle inserts are metallized) - ROHS compliant G: Aluminium shell - olive drab cadmium plating (receptacle inserts are metallized) BZ: Marine bronze shell (receptacle inserts are metallized) - ROHS compliant								
Cordset Length (type 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] 00: 8 tinned holes at the rear of the PCB to solder the cable								
Remark: Cabling configuration: 100 BTX = 568B (Ethernet specification)								
Examples:	- Olive Drab Cadmium plug with plastic gland: RJF TV (- Olive Drab Cadmium Jam Nut Receptacle, female RJ4		nation: RJF TV 71G					

- Nickel Jam Nut Receptacle, 1,5 m 100 BTX cordset back termination: RJF TV 72N 15 100BTX
- Olive Drab Cadmium in line Square Flange Recept., 0,3 m 100 BTX cordset back termination: RJF TV 2PE 2 G 03 100BTX
- Nickel Jam Nut Receptacle Solder termination 8 tinned holes: RJF TV 22 N 00

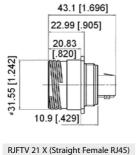
Plug

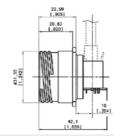
Shell type 6 with Plastic or Metal Gland



Receptacles

Square flange receptacle - 4 mounting holes: Shell type 2





36.53 [1.438]

29.36 [1.156]

3.25

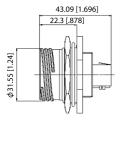
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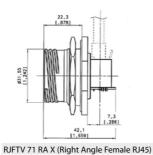
4.93[.194]

RJFTV 21 RA X (Right Angle Female RJ45)

Jam nut receptacle - Hexagonal Nut mounting: Shell type 7

92 [3.622]

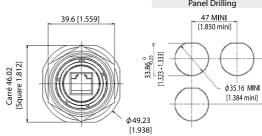




RJFTV 71 X (Straight Female RJ45)

Type 1: Female RJ45

Receptacles with IP68 backshell: Shell type 2PE and 7PE with Plastic or Metal Gland



Panel Drilling 47 [1.850] MINI

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Panel Drilling

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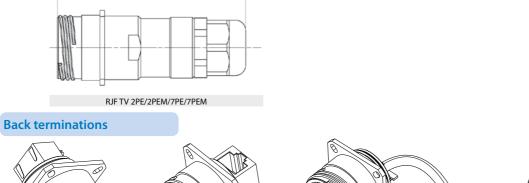
40.5 [1.594]

29.36 [1.156]

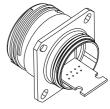
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(.118 - .128)

Amphenol



Type 2: RJ45 Cordset



Type 2 - 00: Solder - 8 tinned holes

Notes Type 2 without RJ45 plug at the end of the cable is also available: consult factory

Type 1RA: Right Angle Female RJ45

