Amphenol SOCAPEX

RJF TV6 - Reduced Flange

Cat6 Ethernet connection system for harsh environment Smaller and Lighter



Description

Derived from standard RJF TV6, Reduced Flange RJF TV6 is ideal for applications where small dimensions and lower weight are critical.

RJF TV Cat.6 allows you to use an Ethernet Class E / Cat.6 connection for 10 Base-T, 100 Base-TX or 1000 Base-T up to 250 MHz 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 Features

- Smaller: 41% footprint surface reduction
- Lighter: 15% lighter than standard RJF TV receptacles
- MIL-DTL-38999 coupling mechanism
- Mates with standard RJF TV plugs & caps
- 3 platings: Olive Drab Cadmium, Nickel, Black Zn Ni
- Cat.6 Ethernet : 1Gb up to 250 MHz
- Reduced Flange Deviation (to be added at the end of your part number):
 - F312 with standard castle nut
 - F311 with safety castle nut*



standard castle nut



* safety castle nut

Main characteristics

Sealed against fluids and dust (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 (MII-DTL-38999 series III type) with anti-decoupling device - shell size 19

Mating cycles: 500 minimum

Environmental protection

Sealing: IP68 when mated with cap or potted version without cap

Salt spray:

> 48h with aluminium shell - Nickel 🗸

> 500h with aluminium shell - Olive drab cadmium plating

> 500 h with aluminium shell - Black zinc nickel

Fire retardant / low smoke: UL94 V0 and EN45545

Vibrations (mated conditions):

10 - 500 Hz, 10 g, 3 axes: no discontinuity > 10 nano s

Shocks: IK06: weight of 250 g drop from 40 cm [15.75 in] onto

connectors (mated pair)

Data transmission

10 Base-T, 100 Base-TX and 1000 Base-T up to 250 MHz networks Cat.6 per EIA/TIA 568 and ClassE per ISO 11801

Markets & Applications



C4ISR, Battlefield, Ground vehicles



Navy

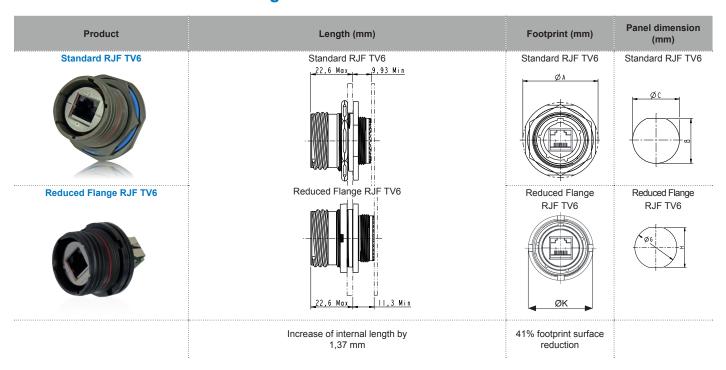




→ Data acquisition and transmission in harsh environment, radars, shelters, battlefied communication

RJF TV6 - Reduced Flange

Smaller Dimensions and 15% lighter



Footprint Saving

41% footprint surface reduction:

Shell Size	RJF TV6 standard diameter	RJF TV6 Reduced Flange diameter	Footprint surface reduction
	ØA max (mm)	ØK max (mm)	Reduced Flange vs standard
19	49,5	38,1	41%

Panel Dimension

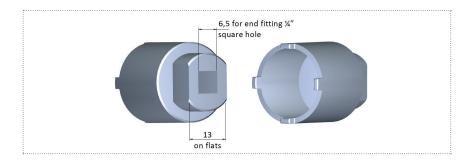
	RJF TV6 Standard		RJF TV6 Reduced Flange	
Size	B ^{-0,25} (mm)	ØC ^{+0,25} (mm)	ØG (mm)	+0,1 O (mm)
19	33,91	35,18	33	31,9

Tools

Need of a specific tool for castle nut:

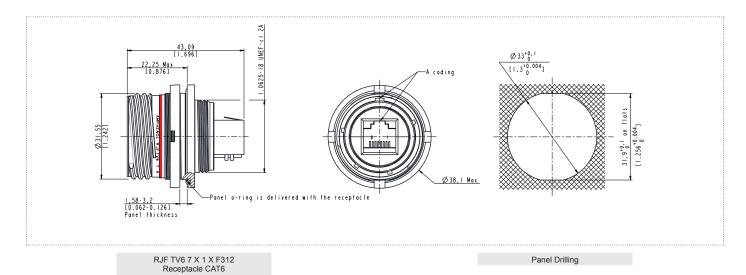
Size	Tool Part Number		
19	809686		

Max torque value: 10.7 N.m



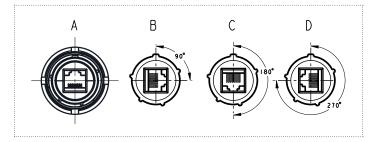
RJF TV6 - Reduced Flange

Receptacle

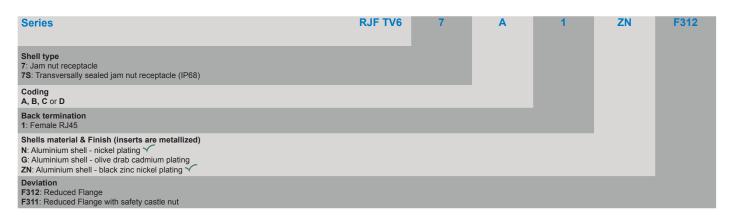


Coding

To be specified in the part number: A,B,C, or D.



How to order



Examples: RJFTV67A1ZNF312; RJFTV67B1GF311

✓: RoHS compliant

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Watch our video

Rugged RJ45 Plug Assembly





Notes









