Amphenol SOCAPEX

10Gb/s!

RJF TV6A

Cat6A 10 Gb/s Ethernet connection system for harsh environment

Description

RJFTV Cat6A allows you to use an Ethernet Class Ea / Cat. 6A connection for 10 BaseT, 100 BaseTx, 1000 BaseT or 10G BaseT up to 500 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

- Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device
- Shell size 19
- No cabling operation in field and no tools required
- Mechanical coding / Polarization (4 positions)
- Improved EMI protection
- Mating cycles: 500 min
- Compatible with cable diameter from 6 mm [0.236 in] to 12 mm [0.512 in]
- Panel thickness: 1,6 mm min and 3,2 mm max for standard jam nut receptacle
- Compatible with standard RJFTV plug

Data Transmission:

- 10 BaseT, 100 BaseTX, 1000 BaseT and 10G Base T up to 500 MHz networks
- Cat.6A connector according to TIA568C.2 and ISO/IEC11801 standard

Environmental protection:

- Sealed against fluids and dusts: IP68 mated
- Compounded versions: IP68 unmated
- Salt spray: Aluminium shell: Nickel plating </ : 48h.
 - Black zinc nickel plating ~: 500h
 - Olive drab cadmium plating: 500h Marine bronze shell \checkmark : 500h

Stainless steel shell: Passivated </ : 500h

- Fire retardant/Low smoke: EN45545 + UL94V0 (non metallized inserts)
- Vibrations: 10 500 Hz, 10 g, 3 axes: no discontinuity > 1 micro s.
- Shocks: IK06 ► weight of 250 g drop from 40 cm [15.75 in]
 - onto connectors (mated pair)
- Temperature range: -40°C / +85°C

Markets & Applications

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: RoHS compliant



Applications :

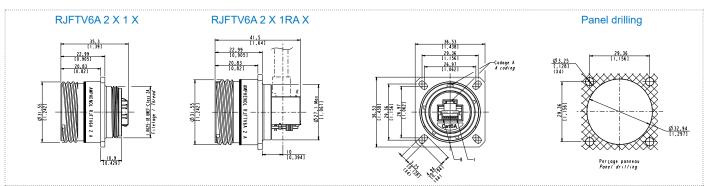
Data acquisition and transmission in harsh environment, radars, shelters, battlefield communication

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Square flange receptacle - 4 mounting holes: shell type 2

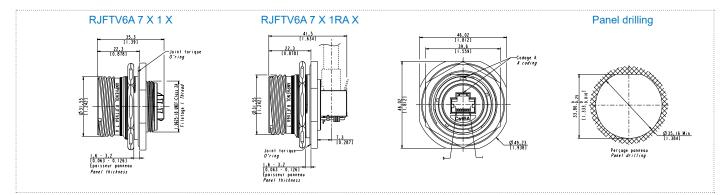
Compatible with standard plugs, accessories and cables

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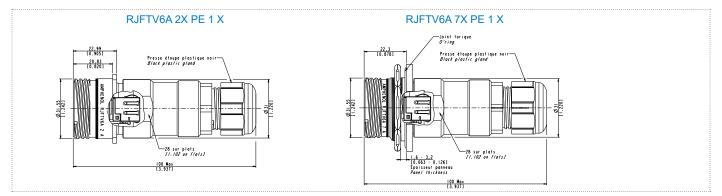
Jam nut receptacle - Hexagonal nut mounting: shell type 7

Compatible with standard plugs, accessories and cables



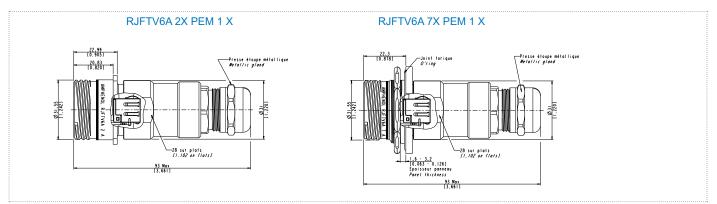
Receptacles with IP68 backshell: Shell type 2PE and 7PE with plastic gland

Compatible with standard plugs, accessories and cables



Receptacles with IP68 backshell: Shell type 2PEM and 7PEM with metal gland

Compatible with standard plugs, accessories and cables



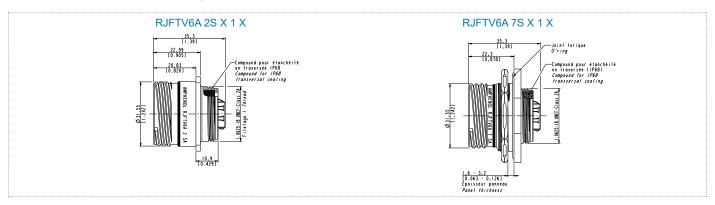
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Sealed receptacles : Shell type 2S and 7S with compound for IP68 transversal sealing

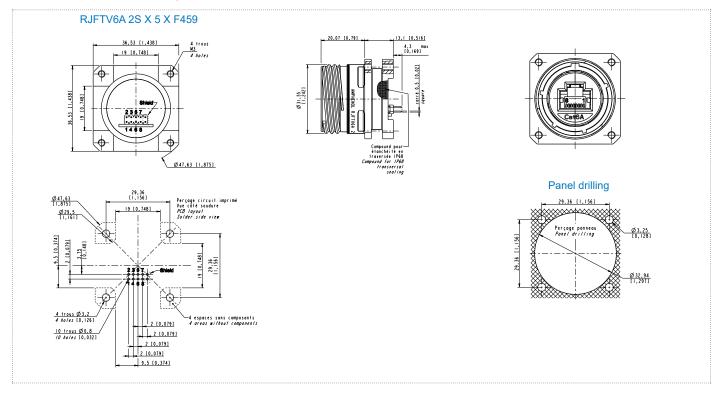
Compatible with standard plugs, accessories and cables

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Stand-off receptacles : Shell type 2S with compound for IP68 transversal sealing: Deviation F459

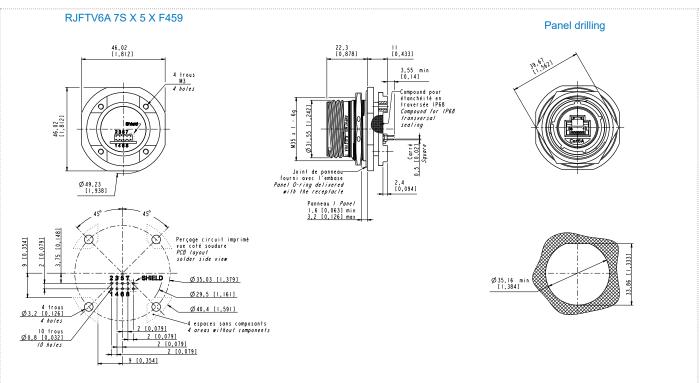
Compatible with standard plugs, accessories and cables



Stand-off receptacles: Shell type 7S with compound for IP68 transversal sealing: deviation F459

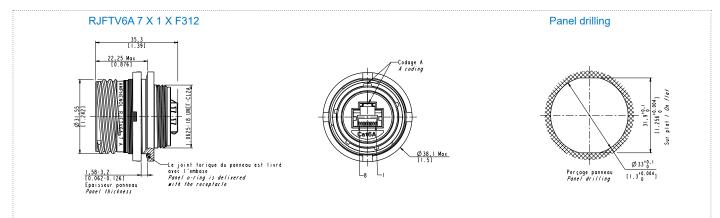
Compatible with standard plugs, accessories and cables

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Reduced flange Jam nut receptacle – Castle nut mounting: Deviation F312

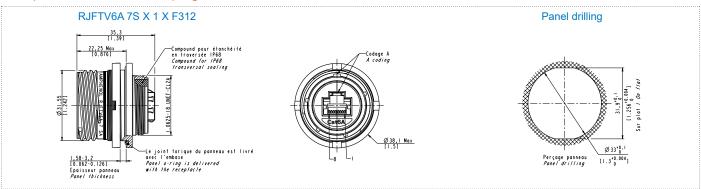
Compatible with standard plugs, accessories and cables



Reduced flange Jam nut receptacle – Castle nut mounting : Deviation F312 with compound for IP68 transversal sealing

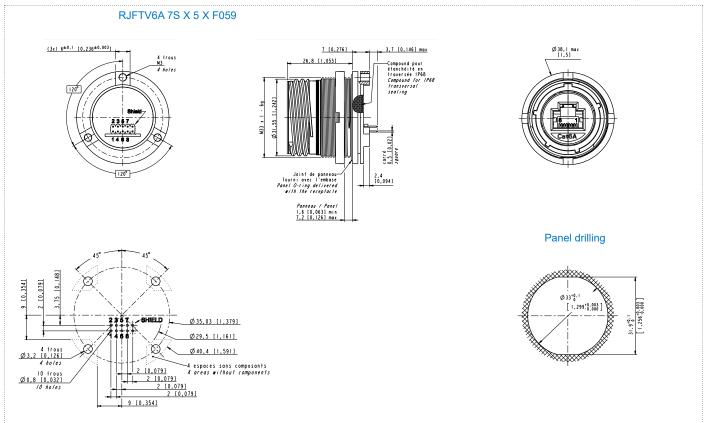
Compatible with standard plugs, accessories and cables

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Reduced flange Stand-off Jam nut receptacle – Castle nut mounting : Deviation F059 with compound for IP68 transversal sealing

Compatible with standard plugs, accessories and cables



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NOTES			

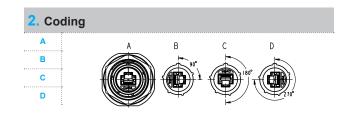
Mating parts and accessories

	Plugs	Protective caps	Tools/accessories	Cables
Mating parts	Standard RJFTV plugs	RJF TV caps Self-closing caps Rubber caps	RJF ODE JE18	Cat 6A cable
Refer to	RJ Field catalog (DOC-000075-ANG)	RJ Field catalog (DOC-000075-ANG) Protective caps data-sheet (DOC-000034-ANG)	RJ Field catalog (DOC-000075-ANG)	RJ Field catalog (DOC-000075-ANG)

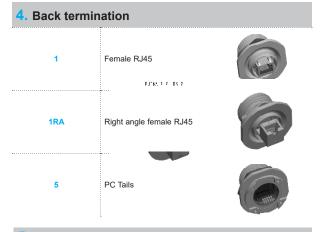
How to order - RJFTV6A

	1.	2.	3.	4.	5.	6.
Series	Shell type	Coding	Material and platings		Material and platings	
RJFTV6A	2	Α	PE	1	ZN	F459

. Sh	ell type
2	Square flange receptacle
2S	Sealed square flange receptacle
7	Jam nut receptacle
7S	Sealed jam nut receptacle



3. Backshells				
IP68 backshell, plastic gland				
IP68 backshell, metal gland				
Receptacle without backshell				



	Shell material	Shell finish
G		Olive Drab cadmium
N	Aluminum	Nickel 🔨
ZN		Black zinc nickel 🗸
S	Stainless steel	Passivated 🗸
BZ	Bronze 🗸	-

6. Deviation

Deviation				
F459	Stand-off receptacle (for back termination 5 only)			
F312	Reduced flange Jam nut receptacle (for back termination 1 and 1RA only)			
F059	Reduced flange Stand-off Jam nut receptacle (for back termination 5 only)			



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Designed by Amphenol Socapex DOC-001020-ANG - October 2020

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