

Description

Derived from standard USB3F TV, Reduced Flange USB3F TV is ideal for applications where small dimensions and lower weight are critical.

With USB field, you can insert a standard USB 3.0 cordset into a metallic plug which will protect it from shocks, dust and fluids. No hazardous on-field cabling and grounding!

Main Features

- Smaller: 40% footprint surface reduction
- Lighter: 15% lighter than standard USB3F TV receptacles
- MIL-DTL-38999 coupling mechanism
- Mates with standard USB3F TV plugs & caps
- 3 platings: Olive Drab Cadmium, Nickel, Black Zn Ni
- LISB3 (
- Reduced Flange Deviation (to be added at the end of your part number):
 - F312 for standard versions (F311 with safety castle nut*)
 - F059 for Stand Off versions (F058 with safety 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

Improved EMI protection

Tri start thread coupling mechanism (MII-DTL-38999 series III type) with anti-decoupling device - shell size 15

2 mechanical coding / polarization possibilities (receptacle insert rotation)

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:

10 - 500 Hz, 10 g, 3 axes: no discontinuity > 1micro s

Shocks: IK06: weight of 250 g drop from 40 cm [15.75 in] onto connectors (mated pair)

Temperature range: - 40°C / +85°C

Data transmission

USB specification 3.0 Data rate: up to 5Gb/s for high speed USB Power supply: up to 4.5 W

Markets & Applications



C4ISR, Battlefield, Ground vehicles



Navy



Railway

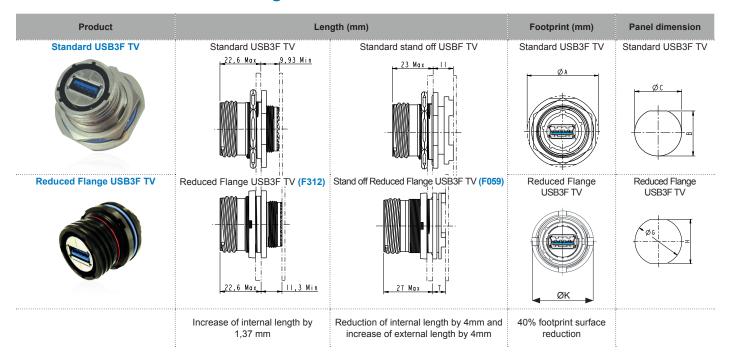


Applications :

• Embedded computers, data acquisition and transmission in harsh environment, battlefied communication

USB3F TV - Reduced Flange

Smaller Dimensions and 15% lighter



Footprint Saving

40% footprint surface reduction:

Shell Size	USB3F TV standard diameter	USB3F TV Reduced Flange diameter	Footprint surface reduction
	ØA max (mm)	ØK max (mm)	Reduced Flange vs standard
15	41,6	32,1	40%

Panel Dimension

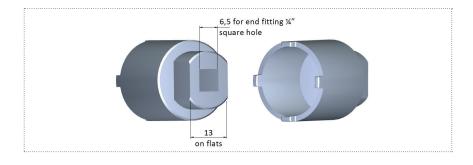
	USB3F TV Standard		USB3F TV Reduced Flange	
Size	0 B - 0,25 (mm)	+0.25 ØC (mm)	ØG (mm)	+0,1 H (mm)
15	27,56	28,83	27	25,5

Tools

Need of a specific tool for castle nut:

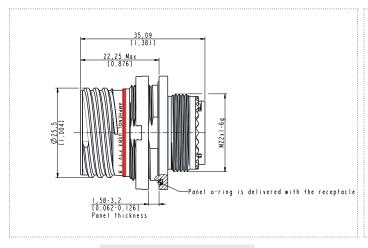
Size	Tool Part Number		
15	809684		

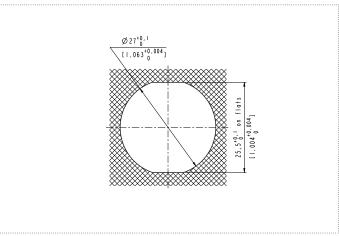
Max torque value: 8.5 N.m



USB3F TV - Reduced Flange

Receptacle

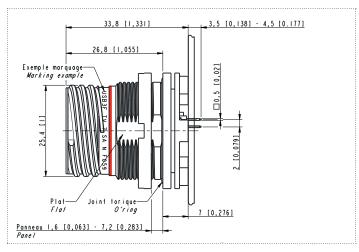


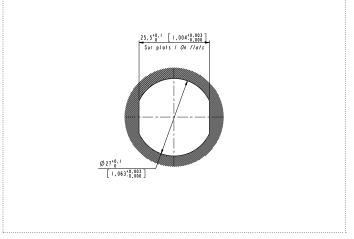


USB3F TV 7 X X F312

Panel Drilling

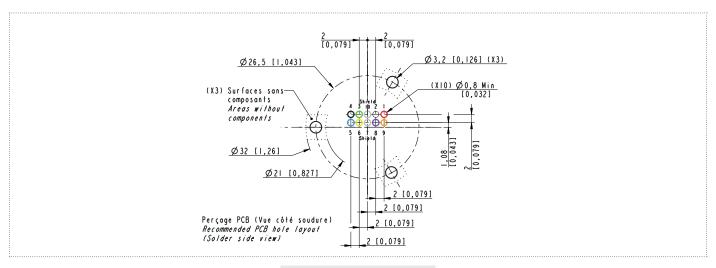
Stand off receptacle





USB3F TV 7S X X F059

Panel Drilling

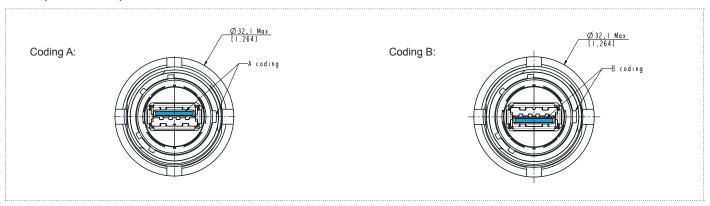


PCB Layout

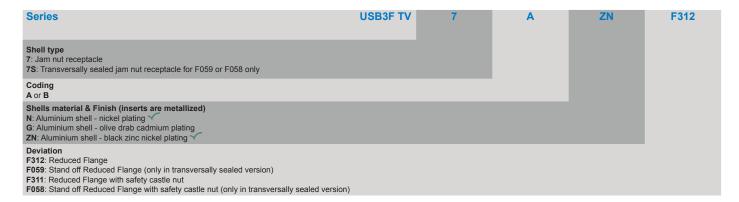
USB3F TV - Reduced Flange

Coding

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



How to order



Examples: USB3FTV7AZNF312; USB3FTV7SBGF059

✓: RoHS compliant

Watch our video

Rugged USB Plug Assembly



Amphenol Socapex 948, promenade de l'Arve BP29 74311 Thyez Cedex - France Phone: +33 (0)4 50 89 28 00 contact@amphenol-socapex.fr

Amphenol PCD (Contact in North America) 72 Cherry Hill Drive Beverly, MA 01915 978-624-34000 www.amphenol-pcd.com

www.amphenol-socapex.com Follow Amphenol Socapex on social media :









X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for USB Connectors category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

65-647-8-BK-BU 950 E8144-B01021-L A-USB A-LP-SMT-C A-USB B-TOP-C MUSBA511N5 MUSBD11135 217450-1 CA 6 W LD KMBVX-TH-5S-B30 896-30-004-00-000000 KUSBVX-BS1N-W30 KUSBX-AP-KIT-SCBLK KUSBX-AS2N-W KUSBX-SMT2AP1S-W KUSBX-SMT2AP1S-W30 935 957 30-498-6 17-210051 1734082-1 30-1574 30-470 30-489 30-541 30-572-3 MAB 8 SN V A-USB A-2P-C MIKROE-1451 USBFTV2PEM2G USBFTVC6ZN KUSBX-AS2N-W30 KUSBX-SLAS1N-W KUSBX-SMT-AS1N-W30 4689-1 1-1734084-2 E8110-001-01 MUSBA81130 33UBARS1-04SW11 33UBAR-04SW11 USBF21ZNSCC USBBFTV6ZC 10135326-001LF M9177/3-1 USB-A-S-F-B-VT 925 4198 690-024-633-031 KUSBX-BSFS1N-W USBFTVC6MRG