

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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
- 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*)



standard castle nut



safety castle nut

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

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





Railway

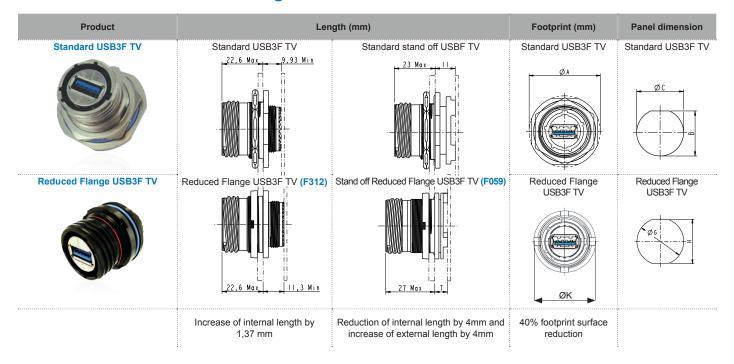


Applications:

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

Panel Dimension

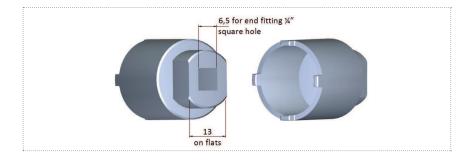
	USB3F TV Standard		USB3F TV Reduced Flange	
Size	0 B (mm)	+0.25 ØC (mm)	ØG ^{+0,1} (mm)	+0,1 H (mm)
15	27,56	28,83	27	25,5

Tools

Need of a specific tool for castle nut:

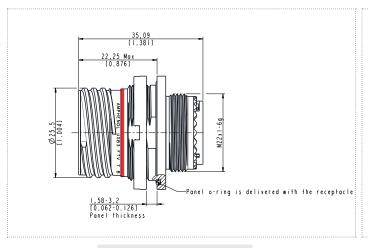
Size	Tool Part Number		
15	809684		

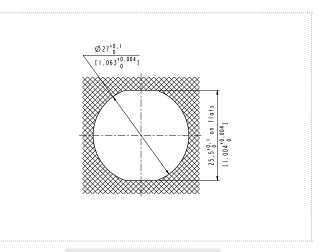
Max torque value: 8.5 N.m



USB3F TV - Reduced Flange

Receptacle

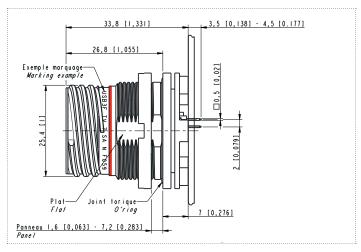


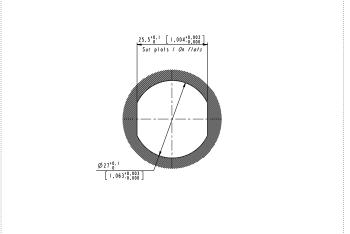


USB3F TV 7 X X F312

Panel Drilling

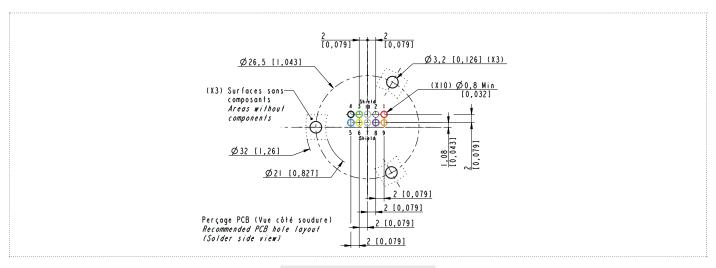
Stand off receptacle





USB3F TV 7S X X F059

Panel Drilling

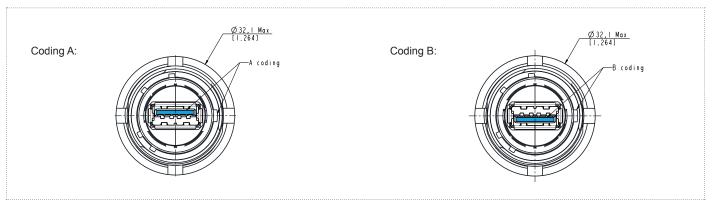


PCB Layout

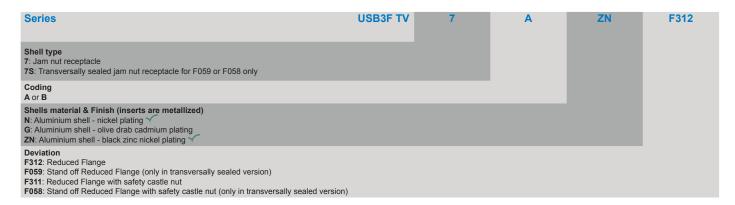
USB3F TV - Reduced Flange

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



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