

USB3 Type A - Type C - Adapter



Description

The USB3 Type A - Type C™ adapter is a complete ruggedized solution around USB3.2 Gen1 Type A and USB Type C. This solution allows you to integrate new equipment featuring a USB Type C port without disassembling an existing USB2 or USB3 Type A link. Two adaptation options are available to facilitate integration into your system: Type C host or Type C device (see description table). The USB3FTV™ receptacle dedicated to be mounted on your panel allows you to reinforce and protect your system against leakage, shock, vibration and much more. There are 2 mechanical coding possibilities (receptacle insert rotation) on the USB-A side and a fully reversible USB-C port on other side that can be integrated with our USB3CFTV™ plug.

Main features

Main characteristics:

- Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) - Shell size 15
- 2 mechanical coding/polarization possibilities by the user (receptacle insert rotation)
- Sealed against fluids and dusts (IP68)
- Shock, vibration and traction resistant
- No cabling operation in field and no tools required
- Improved EMI protection

Data transmission :

- USB specification 3.2 Gen1
- Data rate: up to 5Gb/s for high speed USB

Environmental protection:

- Sealing (when mated and unmated) : IP68 (temporary immersion)
- Salt spray:
 - 48 h with nickel plating ✓
 - 500 h with olive drab cadmium
 - 1000 h with marine bronze shell ✓
 - 500 h with 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] into connectors (mated pair)
- Humidity: 21 days, 43°C, 98% humidity
- Temperature range: - 40°C / +85°C

✓: RoHS compliant

Square flange



Jam nut



Reduced flange



Markets & Applications



C5ISR, Battlefield Communication



Ground Vehicles



Naval



Applications :

- Displays, Consoles, Visions systems, Situation awareness

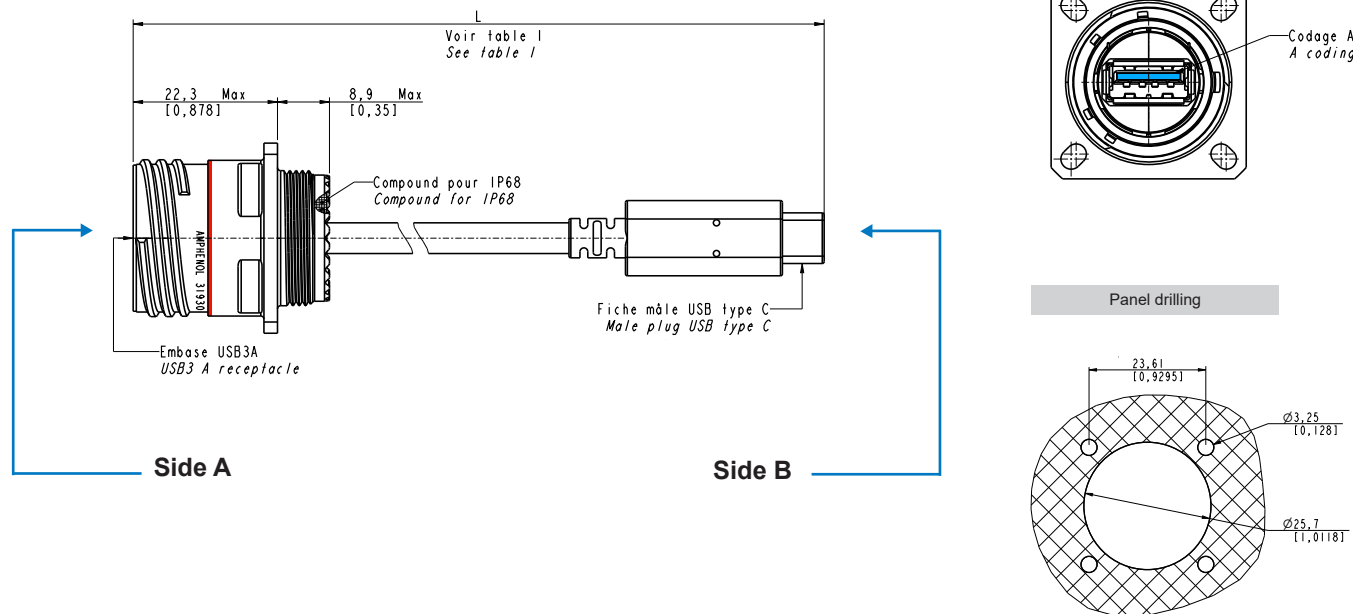
USB3 TYPE A - TYPE C - ADAPTER

Overall dimension



Square flange receptacle - Shell type 2 - 4 mounting holes

Part number type: **31930X-XXX**
32242X-XXX



SIDE A - HOST → SIDE B DEVICE IN SQUARE FLANGE RECEPTACLE

Designation

31930	Plating		—	Lenght	
	G			015	15 cm (5.91 inch)
	N			030	30 cm (11.81 inch)
	ZN			050	50 cm (19.68 inch)
	BZ			100	1 m (39.37 inch)

SIDE B - HOST → SIDE A DEVICE IN SQUARE FLANGE RECEPTACLE

Designation

32242	Plating		—	Lenght	
	G			015	15 cm (5.91 inch)
	N			030	30 cm (11.81 inch)
	ZN			050	50 cm (19.68 inch)
	BZ			100	1 m (39.37 inch)

Important note:

- For other codings, please consult us.

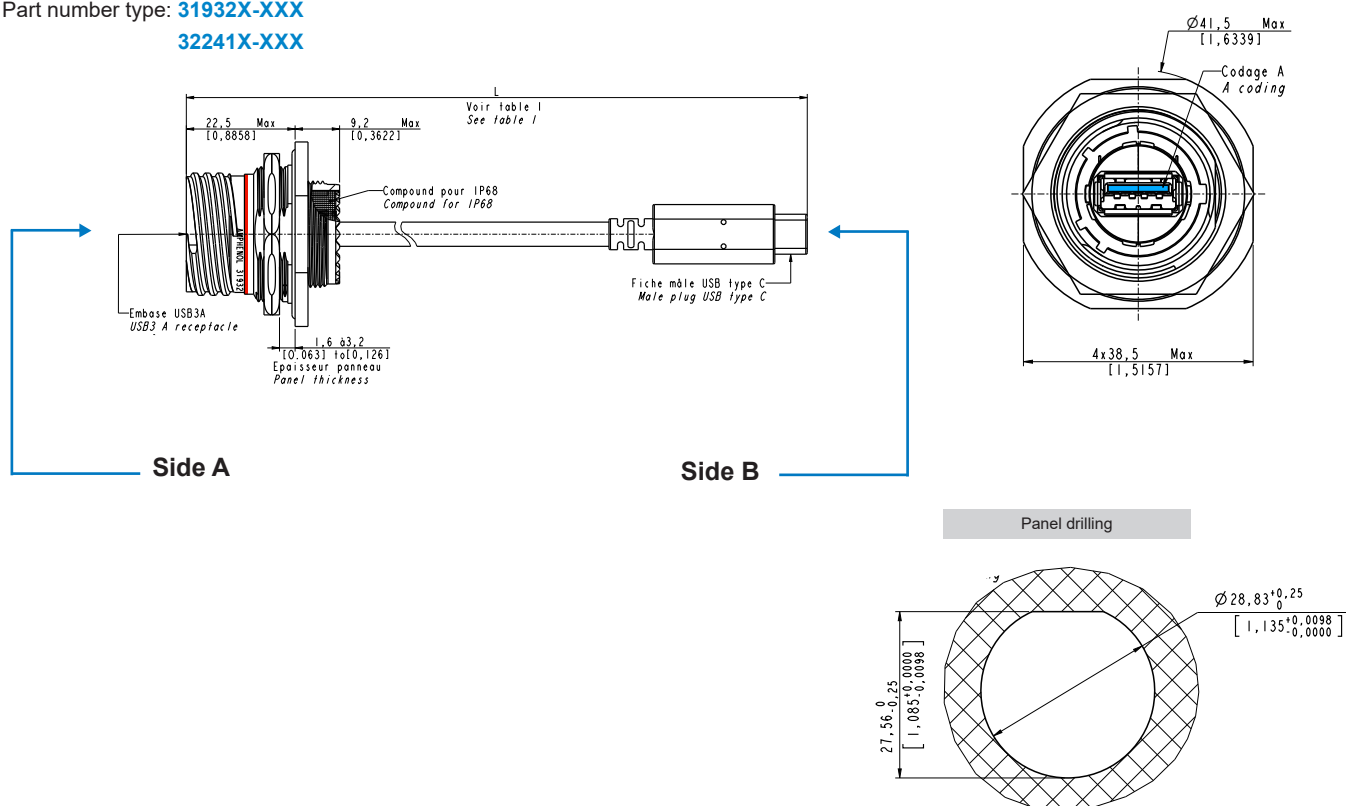
USB3 TYPE A - TYPE C - ADAPTER

Overall dimension



Jam nut receptacle - Shell type 7 - Hexagonal nut mounting

Part number type: **31932X-XXX**
32241X-XXX



SIDE A - HOST → SIDE B DEVICE IN JAM NUT RECEPTACLE

Designation					
31932	Plating		—	Lenght	
	G			015	15 cm (5.91 inch)
	N			030	30 cm (11.81 inch)
	ZN			050	50 cm (19.68 inch)
	BZ			100	1 m (39.37 inch)

SIDE B - HOST → SIDE A DEVICE IN JAM NUT RECEPTACLE

Designation					
32241	Plating		—	Lenght	
	G			015	15 cm (5.91 inch)
	N			030	30 cm (11.81 inch)
	ZN			050	50 cm (19.68 inch)
	BZ			100	1 m (39.37 inch)

Important note:

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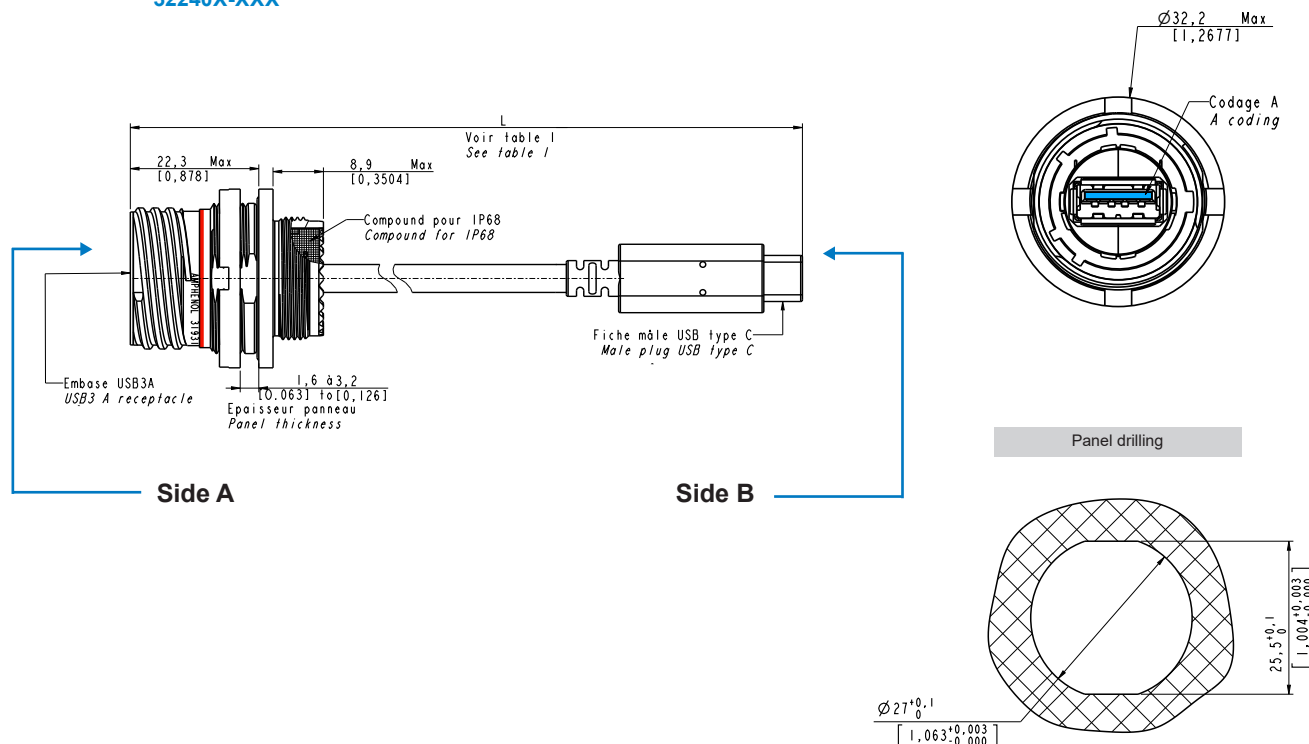
USB3 TYPE A - TYPE C - ADAPTER

Overall dimension



Reduced flange receptacle - Jam nut shell type 7 - Castle nut mounting

Part number type: **31931X-XXX**
32240X-XXX



SIDE A - HOST → SIDE B DEVICE IN REDUCED FLANGE RECEPTACLE

Designation

31931	Plating		-	Lenght	
	G			015	15 cm (5.91 inch)
	N			030	30 cm (11.81 inch)
	ZN			050	50 cm (19.68 inch)
	BZ			100	1 m (39.37 inch)

SIDE B - HOST → SIDE A DEVICE IN REDUCED FLANGE RECEPTACLE

Designation

32240	Plating		-	Lenght	
	G			015	15 cm (5.91 inch)
	N			030	30 cm (11.81 inch)
	ZN			050	50 cm (19.68 inch)
	BZ			100	1 m (39.37 inch)

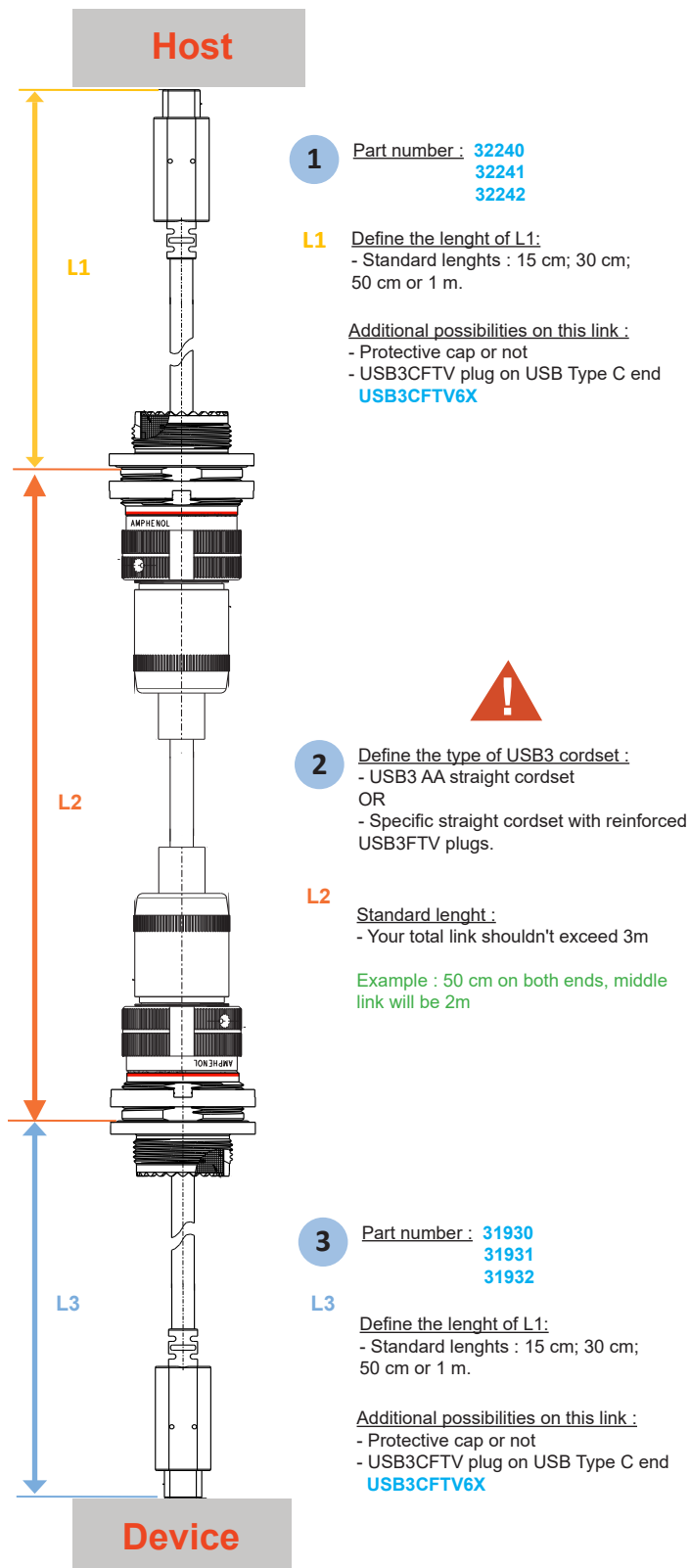
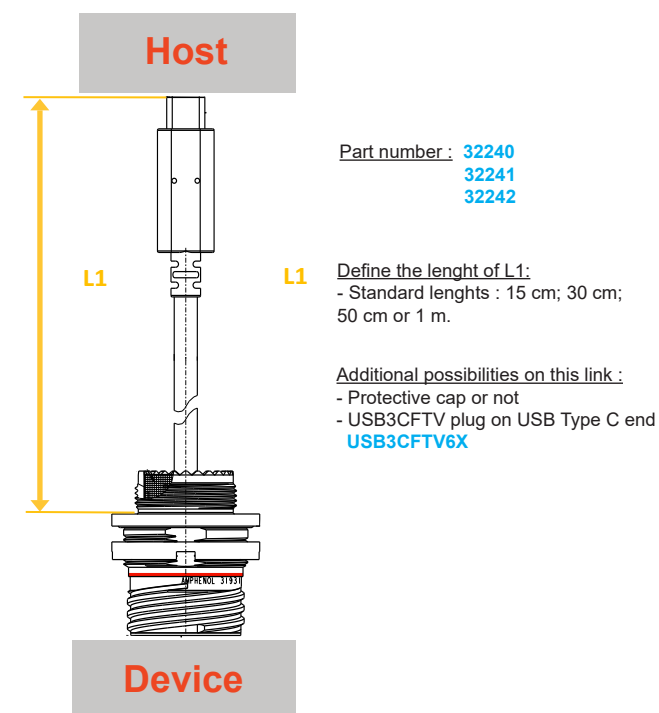
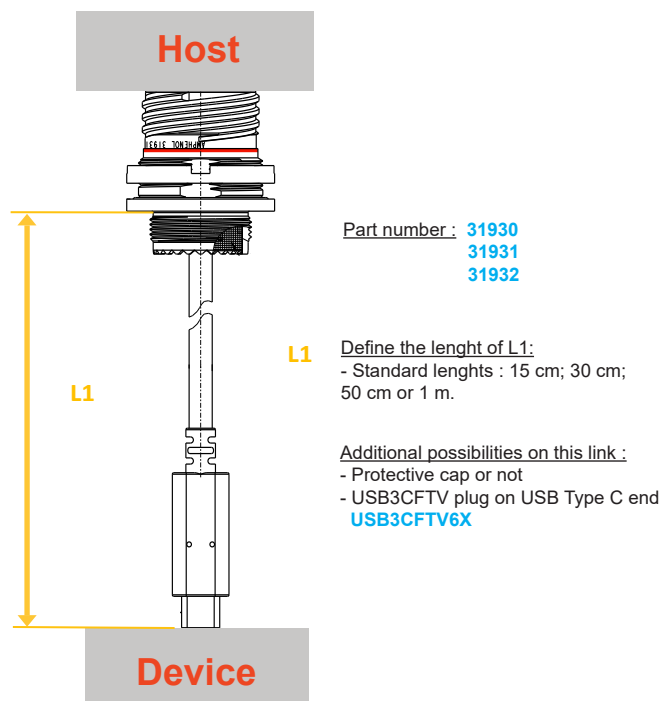
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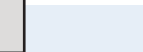
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USB3 Adapter selection guide

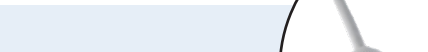
Define your own solution by selecting options in the scheme below



USB3CF TV



- Shell size 11
- Power delivery; audio; video; USB3.2
- Compatible with USB3.2 Gen 1
- Receptacle fully reversible
- Thread coupling, MIL-DTL-38999 III type



USB3 Cordsets




- USB3.2 Gen 1
- Up to 3 m max in lenght
- Reinforced PUR Jacket
- Halogen free
- Double shielding