

RJFTVX, USBFTVX, RJ11FTVX

RJ45, USB, RJ11/12 explosion proof solutions for **Zone 2**



Amphenol Atex Field Bus range is designed for device group II category 3G. According to EN60079-15 it may be operated within zone 2 and class I, Division 2, as low power non sparking connectors.

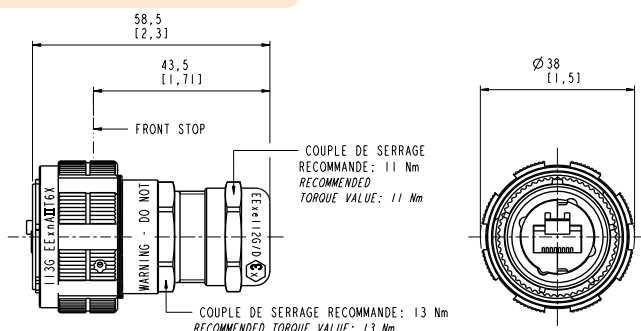


RJFTVX • Rugged and sealed RJ45 connector



RJFTVX allows you to use an Ethernet Class D / Cat. 5e connection for 10 BaseT, 100 BaseTx or 1000 BaseT networks in ATEX zone 2 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. RJFTVX features the same main characteristics than RJFTV series (see page 26).

Plug

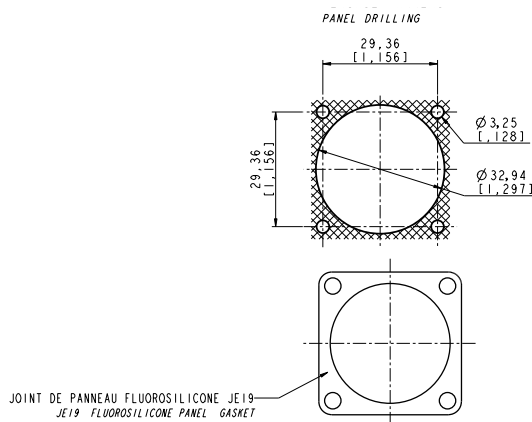
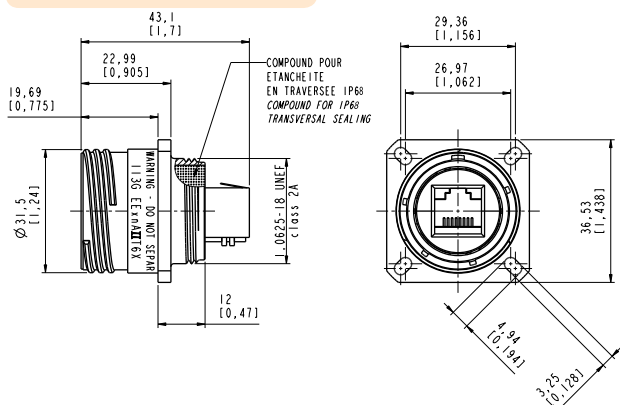


Characteristics

■ Ex marking	II3G ExnAIIIT6 X
■ Operating temperature range	-40°C / +60°C
■ Voltage	60 Veff max
■ Power	20 W max
■ Outside cable diameter	6mm to 12mm
■ Sealing	IP68
■ Data transmission	10 BaseT, 100 BaseTX & 1000 BaseT networks. Cat. 5e per TIA/EIA 568B & Class D per ISO/IEC 11801

Part number	Plating	Plug	IP68 metallic cap
	Nickel	RJFTVX6MN	RJFTVC6N
	Olive drab cadmium	RJFTVX6MG	RJFTVC6G

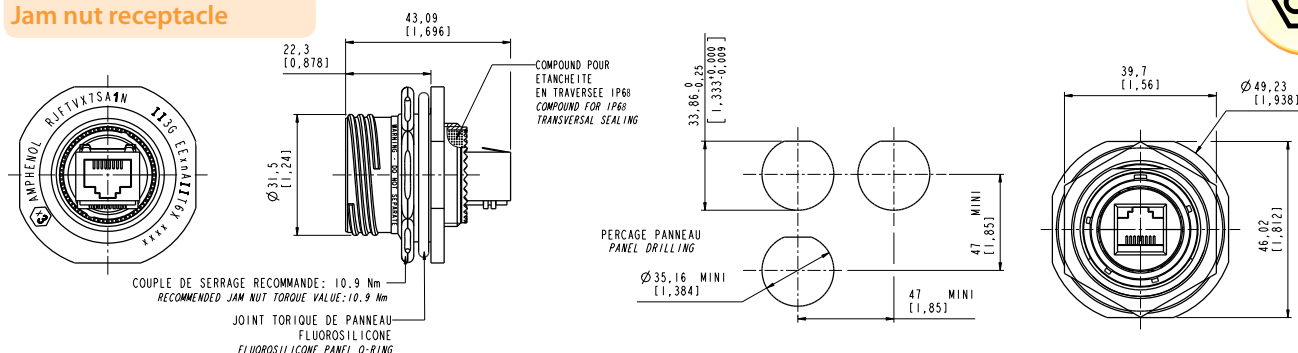
Square flange receptacle



Part number	Plating	Receptacle, RJ45 back termination, coding A	Receptacle cap
	Nickel	RJFTVX2SA1N	RJFTVC2N
	Olive drab cadmium	RJFTVX2SA1G	RJFTVC2G



Jam nut receptacle

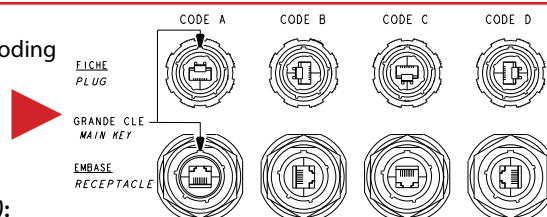


Part number	Plating	Receptacle, RJ45 back termination, coding A	IP68 metallic cap
	Nickel	RJFTVX7SA1N	RJFTVC7N
	Olive drab cadmium	RJFTVX7SA1G	RJFTVC7G

REMARK: As receptacles are compounded (IP68 transversally sealing), coding position has to be specified in the part number : A (standard), B, C or D

Receptacles can be provided with RJ45 cordsets.

There are 4 standard lengths as described hereunder (with coding "A"):



Part number	Nickel plating	Olive drab cadmium plating	RJ45 cordset length Meters
	RJFTVX2SA2N03100BTX	RJFTVX2SA2G03100BTX	0.3
	RJFTVX2SA2N05100BTX	RJFTVX2SA2G05100BTX	0.5
	RJFTVX2SA2N10100BTX	RJFTVX2SA2G10100BTX	1.0
	RJFTVX2SA2N15100BTX	RJFTVX2SA2G15100BTX	1.5

Part number code

Series	RJ TVX	75	A	2	N	05 100BTX
RJ Field TV						
Shell Type						
2S: Square flange receptacle						
7S: Jam nut receptacle						
6M: Plug						
Coding						
"A" (Standard) or "B", "C", "D"						
Back Terminations (for receptacles only)						
1: Female RJ45						
2: RJ45 cordset						
Shell Material and Finish:						
N: Nickel						
G: Olive drab cadmium						
Cordset length (for receptacles with "2" back termination only)						
03 100BTX:30 cm [11.81 inches]						
05 100 BTX:50 cm [19.68 inches]						
10 100 BTX:1 meter [39.37 inches]						
15 100BTX: 1,5 meters [59.04 inches]						



USBFTVX • Rugged and sealed USB connector

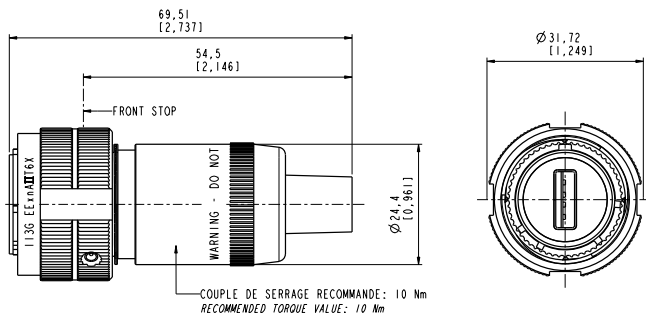


With USBFTVX, you can insert a standard USB 2.0 cordset into a metallic plug which will protect it from shocks, dust and fluids. This range is fitted to be used in Atex zone 2 environments. This metallic plug is connected into a receptacle, using a Tri Start thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device for high vibrations. USBFTVX features the same main characteristics than USBFTV series (see page 76).

Characteristics

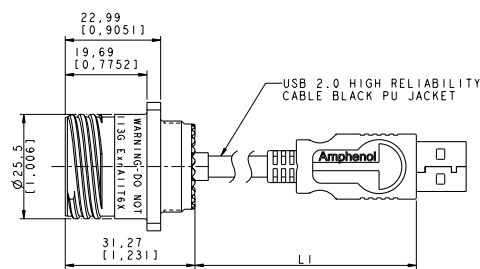
■ Ex marking	II3G ExnAIIIT6 X
■ Operating temperature range	-40°C / +70°C
■ Voltage	60 Veff max
■ Power	20 W max
■ Outside cable diameter	4mm to 6mm
■ Sealing	IP68
■ Data transmission	USB 2.0 up to 480 Mb/s

Plug

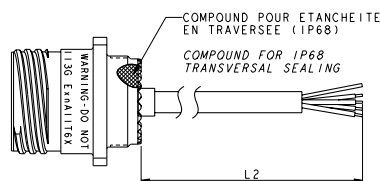


Part number	Plating	Plug	IP68 metallic cap
	Nickel	USBFTVX6N	USBFTVC6N
	Olive drab cadmium	USBFTVX6G	USBFTVC6G

Square flange receptacle

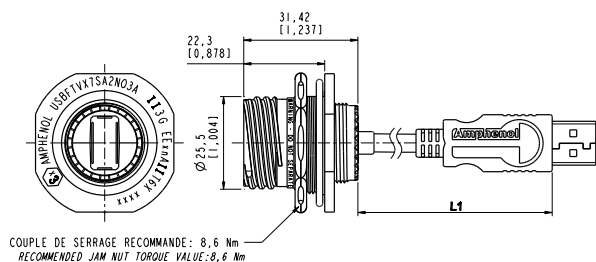


Cable end Type "A" (Standard USB "A" Plug)

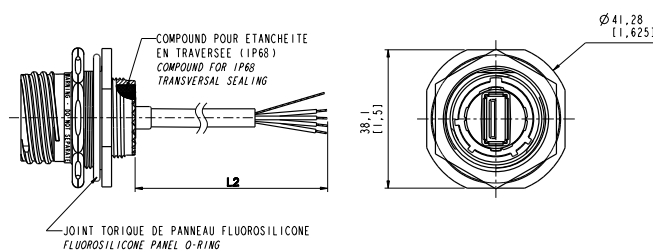


Cable end Type "OPEN" (No connector)

Jam nut receptacle



Cable end Type "A" (Standard USB "A" Plug)



Cable end Type "OPEN" (No connector)

Part number code

Series	USBF TVX	25	A	2	N	03	A
USB Field TV							
Shell Type							
25: Square flange receptacle							
75: Jam nut receptacle							
Coding							
"A" (Standard) or "B"							
Back Terminations							
2: Rugged USB cable							
Shells Plating							
N: Nickel							
G: Olive drab cadmium plating							
USB cable length							
03: 30 cm [11.81 inches]							
05: 50 cm [19.68 inches]							
10: 1 meter [39.37 inches]							
USB cable end							
A: Standard USB-A plug							
OPEN: Open cable (no connector)							

CAPS for receptacles :

Part number	Plating	Cap for square flange receptacle	Cap for jam nut receptacle
	Nickel	USBFTVC2N	USBFTVC7N
	Olive drab cadmium	USBFTVC2G	USBFTVC7G



RJ11FTVX • Rugged and sealed RJ11/12 connector



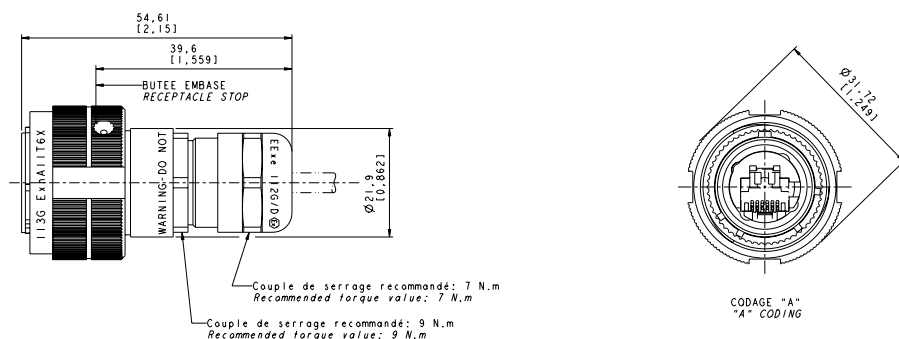
RJ11FTVX allows you to use a standard phone RJ11/RJ12 connection in Atex zone 2 environments.

With the patented RJStop® system you can use a standard RJ11 / RJ12 cordset in a metallic plug which will protect it from shocks, dust and fluids.

Characteristics

■ Ex marking	II3G ExnAII T6 X
■ Operating temperature range	-40°C / +60°C
■ Voltage	60 Veff max
■ Power	20 W max
■ Outside cable diameter	4mm to 5.5mm
■ Sealing	IP68
■ Coupling mechanism	Tri Star thread with anti-decoupling device (MIL-DTL-38999 series III)
■ Mating cycles	500 min
■ Salt spray	48h with nickel plating / 500 h with olive drab cadmium plating
■ Coding	4 mechanical user-defined coding / Polarization settings (insert rotation)
■ Fire retardant / Low smoke	UL94 V0 and NF16 101 & 16 102
■ R11 cordset retention in the plug	100 N in the Axis

Plug



Part number	Plating	Plug	Cap
	Nickel	RJ11FTVX6MN	RJ11FTVC6N
	Olive drab cadmium	RJ11FTVX6MG	RJ11FTVC6G