

# 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.

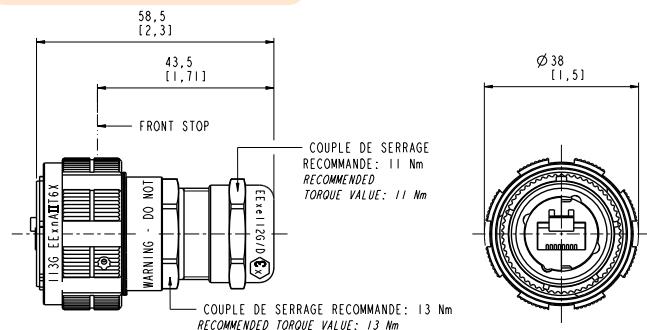


## RJFTVX • Rugged and sealed RJ45 connector



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

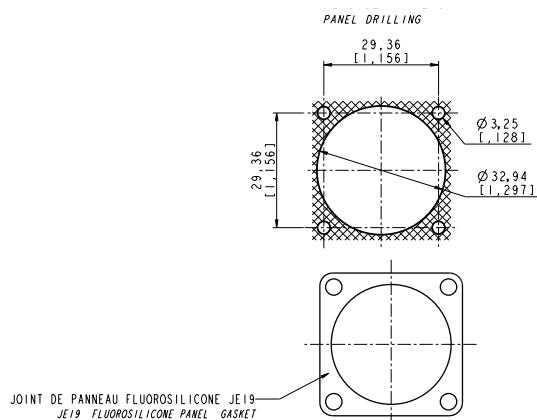
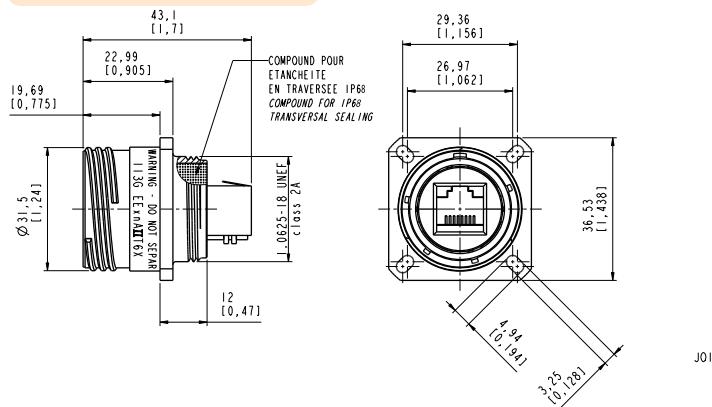


### Characteristics

■ Ex marking	II3G ExnAII6 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

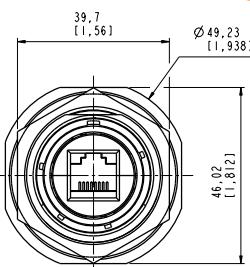
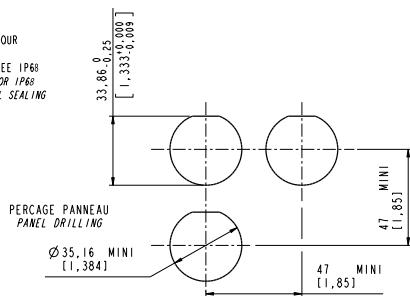
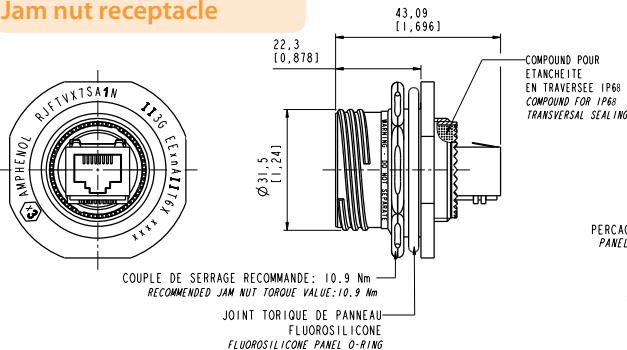
### Square flange receptacle



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

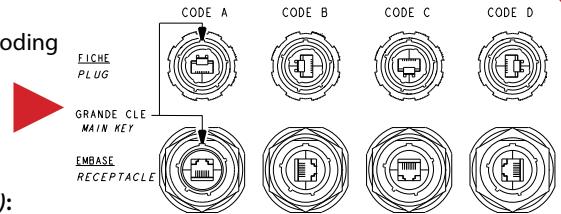


### Jam nut receptacle



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

**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 Field TV	RJF TVX	7S	A	2	N	05 100BTX
<b>Shell Type</b>						
2S: Square flange receptacle						
7S: Jam nut receptacle						
6M: Plug						
<b>Coding</b>						
"A" (Standard) or "B", "C", "D"						
<b>Back Terminations (for receptacles only)</b>						
1: Female RJ45						
2: RJ45 cordset						
<b>Shell Material and Finish:</b>						
N: Nickel						
G: Olive drab cadmium						
<b>Cordset length (for receptacles with "2" back termination only)</b>						
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

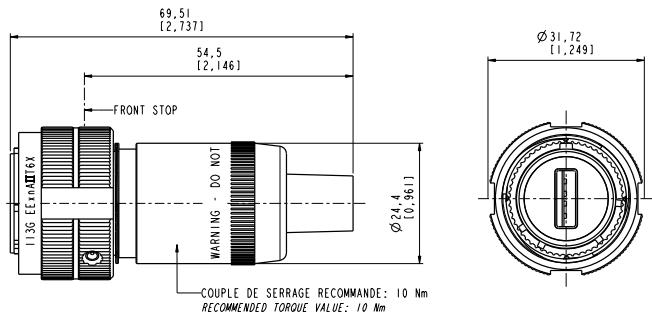


With USBFTVX, you can insert a standard USB 2.0 cordset into a metallic plug which will protect it from shocks, dust and fluids. This range is fitted to be used in Atex zone 2 environments. This metallic plug is connected into a receptacle, using a Tri Start thread coupling mechanism (MIL-DTL-38999 series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

### Characteristics

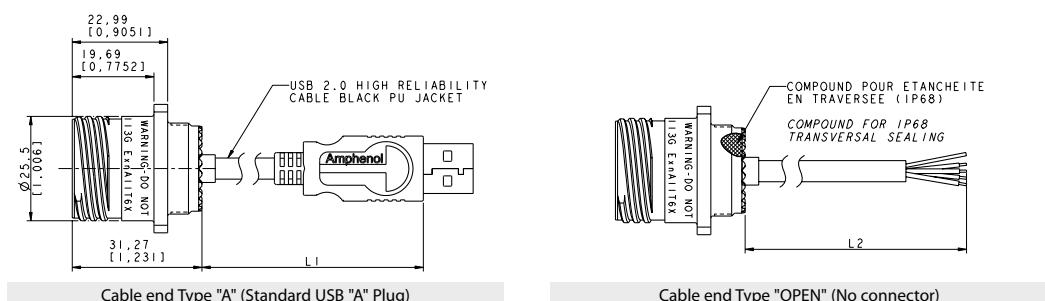
■ Ex marking	II3G ExnAlI6 X
■ Operating temperature range	-40°C / +70°C
■ Voltage	60 Veff max
■ Power	20 W max
■ Outside cable diameter	4mm to 6mm
■ Sealing	IP68
■ Data transmission	USB 2.0 up to 480 Mb/s

### Plug

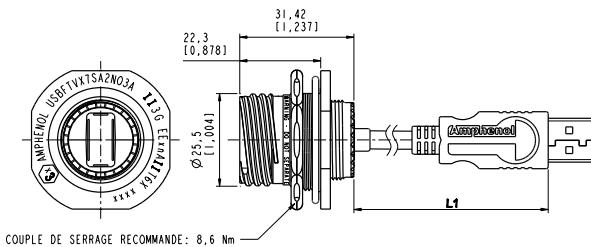


Part number	Plating	Plug	IP68 metallic cap
	Nickel	USBFTVX6N	USBFTVC6N
	Olive drab cadmium	USBFTVX6G	USBFTVC6G

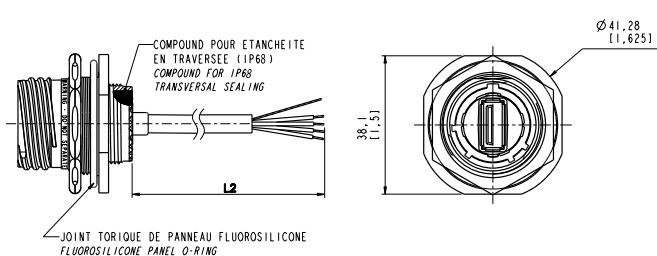
### Square flange receptacle



## Jam nut receptacle



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



Cable end Type "OPEN" (No connector)

## Part number code

Series	USBF TVX	2S	A	2	N	03	A
<b>USB Field TV</b>							
<b>Shell Type</b>							
2S : Square flange receptacle							
7S: Jam nut receptacle							
<b>Coding</b>							
"A" (Standard) or "B"							
<b>Back Terminations</b>							
2: Rugged USB cable							
<b>Shells Plating</b>							
N: Nickel							
G: Olive drab cadmium plating							
<b>USB cable length</b>							
03: 30 cm [11.81 inches]							
05: 50 cm [19.68 inches]							
10: 1 meter [39.37 inches]							
<b>USB cable end</b>							
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
		<b>USBFTVC2N</b>	<b>USBFTVC7N</b>
	Nickel		
	Olive drab cadmium	<b>USBFTVC2G</b>	<b>USBFTVC7G</b>



## RJ11FTVX • Rugged and sealed RJ11/12 connector



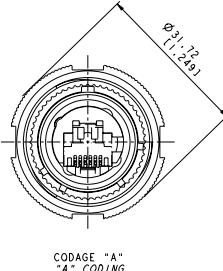
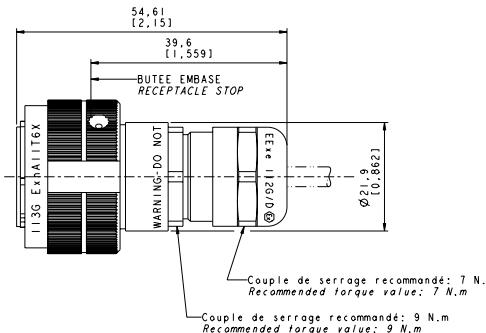
RJ11FTVX allows you to use a standard phone RJ11/RJ12 connection in Atex zone 2 environments.

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 ExnAIIT6 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 oliv 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	<b>RJ11FTVX6MN</b>	<b>RJ11FTVC6N</b>
	Olive drab cadmium	<b>RJ11FTVX6MG</b>	<b>RJ11FTVC6G</b>