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.

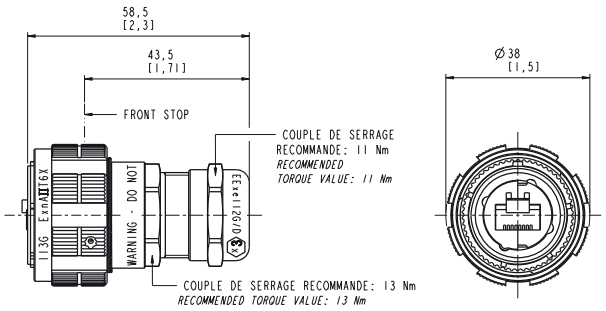
RJFTVX • Rugged and sealed RJ45 connector

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 14)

CHARACTERISTICS

Ex marking	II3G ExnAIIT6 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

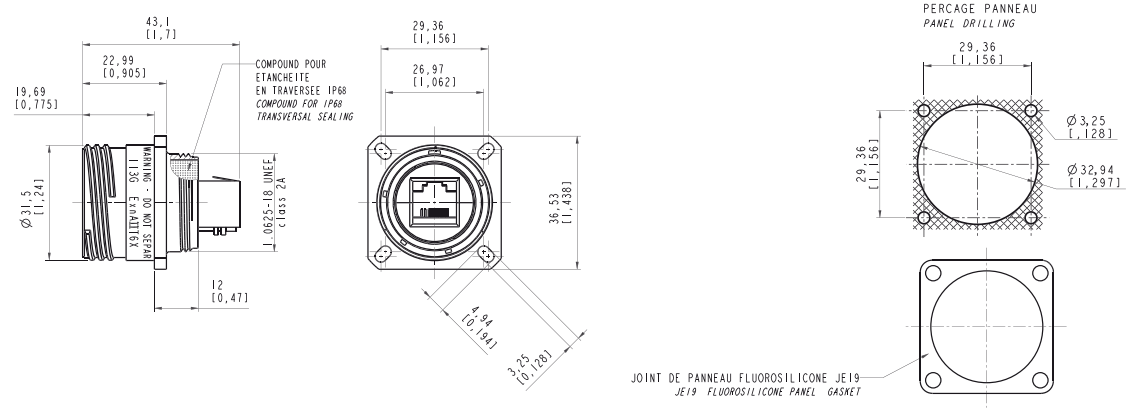
RJFTVX6 PLUG



PART NUMBERS:

Nickel Plated plug: **RJFTVX6MN**
Olive drab cadmium plug**: RJFTVX6MG**
IP68 metallic cap: **RJFTVC6N**
IP68 metallic cap: **RJFTVC6G**

RJFTVX2 receptacle



PART NUMBERS:

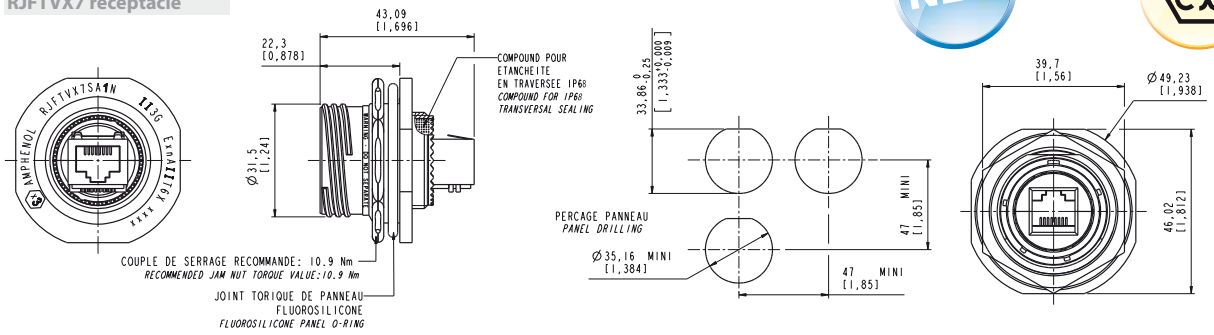
RECEPTACLE

Nickel Plated • RJ45 back termination • coding A-: **RJFTVX2SA1N**
Olive drab cadmium • RJ45 back termination • coding A: **RJFTVX2SA1G**

RECEPTACLE CAP

Nickel: **RJFTVC2N**
Olive drab cadmium: **RJFTVC2G**

RJFTVX7 receptacle



PART NUMBERS:

RECEPTACLE

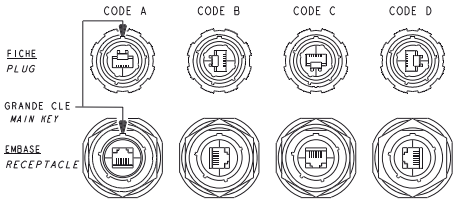
Nickel Plated • RJ45 back termination • coding A-: **RJFTVX7SA1N**

Olive drab cadmium • RJ45 back termination • coding A: **RJFTVX7SA1G**

RECEPTACLE CAP

IP68 metallic cap: **RJFTVC7N**

IP68 metallic cap: **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")*:

Nickel plated / 0,3 meters RJ45 cordsets: RJFTVX2SA2**N**03100BTX

Nickel plated / 0,5 meters RJ45 cordsets: RJFTVX2SA2**N**05100BTX

Nickel plated / 1,0 meters RJ45 cordsets: RJFTVX2SA2**N**10100BTX

Nickel plated / 1,5 meters RJ45 cordsets: RJFTVX2SA2**N**15100BTX

For Olive Drab Cadmium plating replace the "N" with a "G" in the P/N.

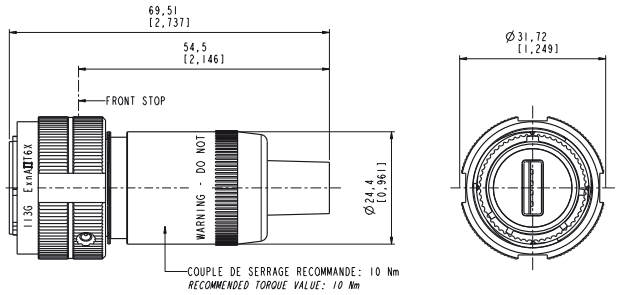
USBFTVX • Rugged and sealed USB connector

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 25)

CHARACTERISTICS

Ex marking	II3G ExnAIIT6 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

USBFTVX6 PLUG



PART NUMBERS:

PLUG

Nickel: **USBFTVX6N**

Olive drab cadmium: **USBFTVX6G**

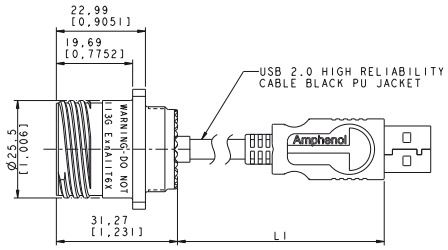
PLUG CAP

Nickel: **USBFTVC6N**

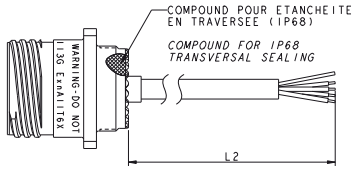
Olive drab cadmium: **USBFTVC6G**

USBTVX2 & USBTVX2 receptacles

Square Flange Receptacle Type USBFTV2

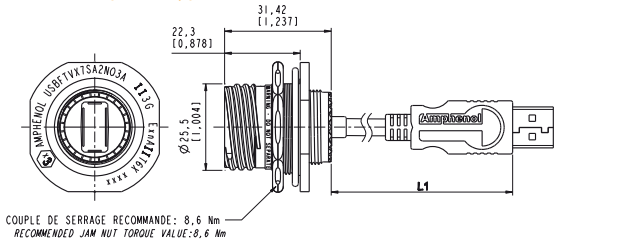


Cable end Type "A" (Standard USB "A" Plug)

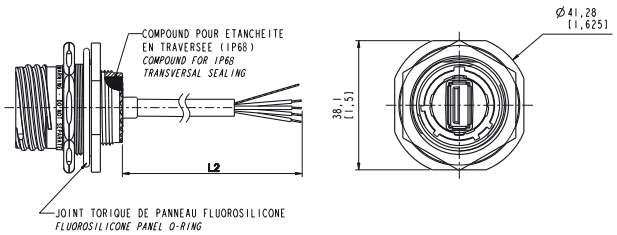


Cable end Type "OPEN" (No connector)

Jam Nut Receptacle Type USBFTV7



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



Cable end Type "OPEN" (No connector)

RECEPTACLE CAPS PART NUMBERS:

Nickel plated cap for USBFTVX2: **USBFTVC2N**
Nickel plated cap for USBFTVX7: **USBFTVC7N**
Olive drab cadmium cap for USBFTVX2: **USBFTVC2G**
Olive drab cadmium cap for USBFTVX7: **USBFTVC7G**

Series **USB Field TV**	**USBF TVX**	**2S**	**A**	**2**	**N**	**03**	**A**
Shell Type **2S :** Square flange receptacle **7S:** 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)							

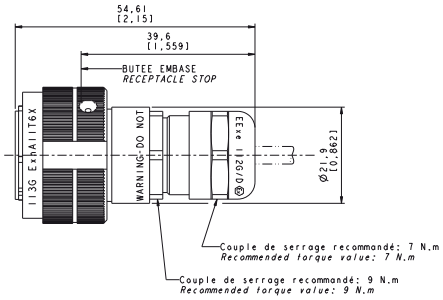
RJ11FTVX • Rugged and sealed RJ11/12 connector

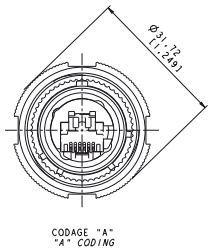
RJ11FTVX allows you to use a standard phone RJ11 / RJ12 connection in Atex zone 2 environments. With the patented RJStop® system you can use a standard RJ11 / RJ12 cordset in a metallic plug which will protect it from shocks, dust and fluids.

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 Start 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

RJ11FTVX6 PLUG





PART NUMBERS:

PLUG

Nickel plated: **RJF11TVX6MN**

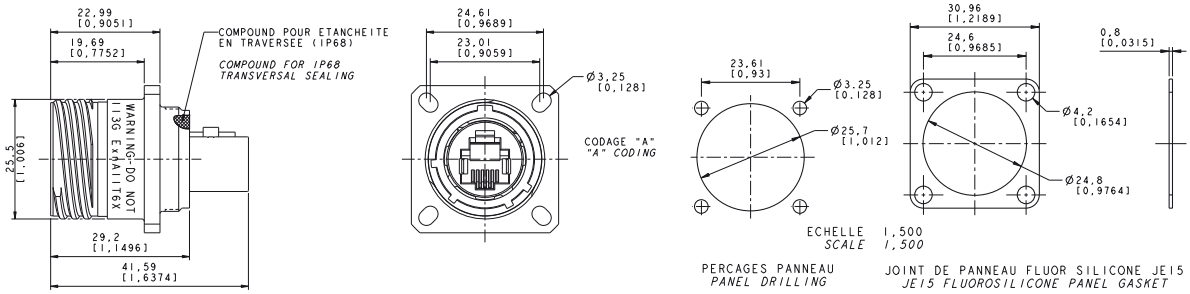
Olive drab cadmium: **RJ11FTVX6MG**

CAP

Nickel plated: **RJ11FTVC6N**

Olive drab cadmium: **RJ11FTVC6G**

RJ11FTVX2



PART NUMBERS:

RECEPTACLE

Nickel Plated - Female RJ45 back termination – coding A-: **RJ11FTVX2SA1N**

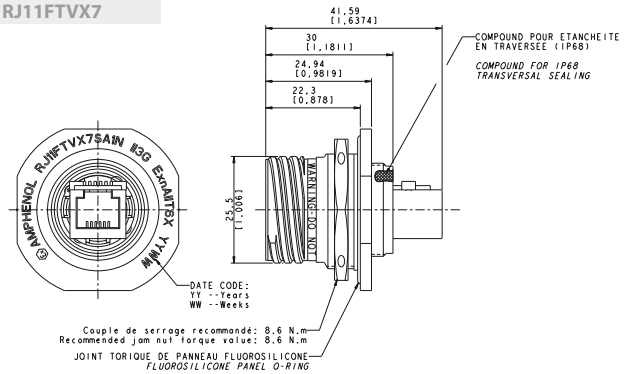
Olive drab cadmium - Female RJ45 back termination – coding A: **RJ11FTVX2SA1G**

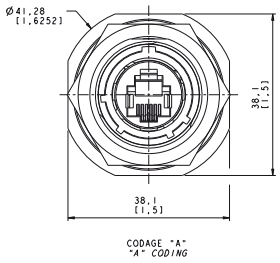
RECEPTACLE CAP

Nickel plated: **RJ11FTVC2N**

Olive drab cadmium: **RJ11FTVC2G**

RJ11FTVX7





PART NUMBERS:

RECEPTACLE

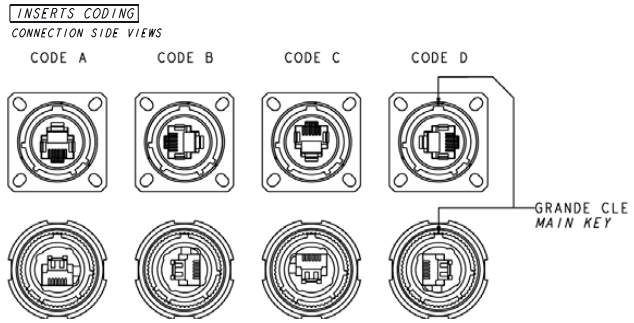
Nickel Plated - Female RJ45 back termination - coding A-: **RJ11FTVX7SA1N**

Olive drab cadmium - Female RJ45 back termination - coding A: **RJ11FTVX7SA1G**

RECEPTACLE CAP

Nickel: **RJ11FTVC7N**

Olive drab cadmium: **R11JFTVC7G**



REMARK:

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