

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.

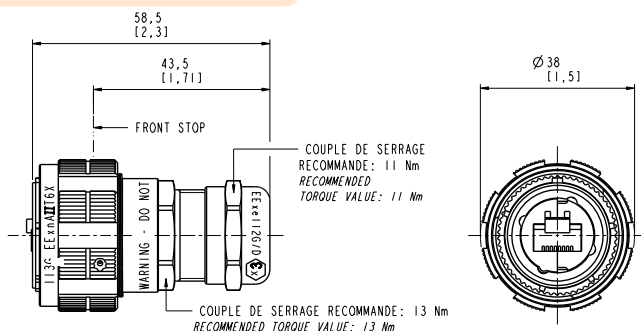


RJFTVX • Rugged and sealed RJ45 connector



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 24).

Plug

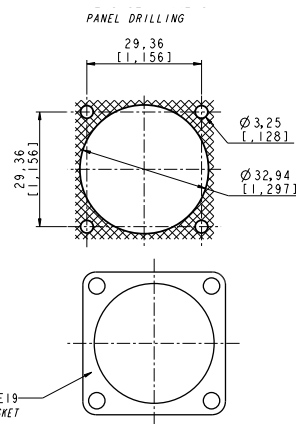
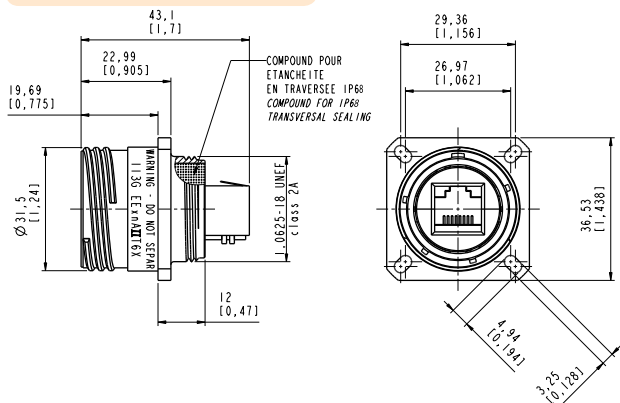


Characteristics

- Ex marking IIIG ExnAII T6 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	Plug	Nickel plating	Olive drab cadmium plating
	IP68 metallic cap	RJFTVX6MN RJFTVC6N	RJFTVX6MG RJFTVC6G

Square flange receptacle



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



USBFTVX • Rugged and sealed USB connector

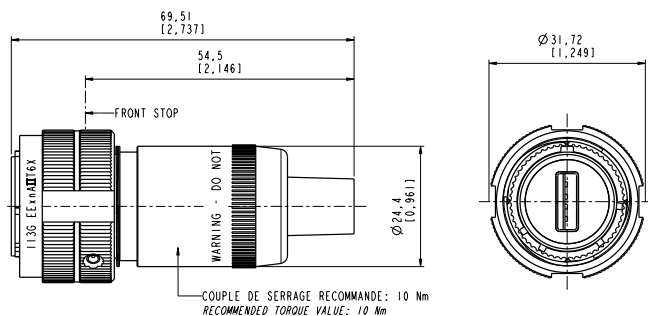


With USBFTVX, you can insert a standard USB 2.0 cordset into a metallic plug which will protect it from shocks, dust and fluids. This range is fitted to be used in Atex zone 2 environments. This metallic plug is connected into a receptacle, using a Tri Start thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device for high vibrations. USBFTVX features the same main characteristics than USBFTV series (see page 72).

Characteristics

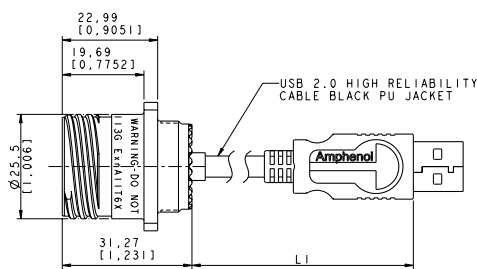
■ Ex marking	II3G ExnAIIIT6 X
■ Operating temperature range	-40°C / +70°C
■ Voltage	60 Veff max
■ Power	20 W max
■ Outside cable diameter	4mm to 6mm
■ Sealing	IP68
■ Data transmission	USB 2.0 up to 480 Mb/s

Plug

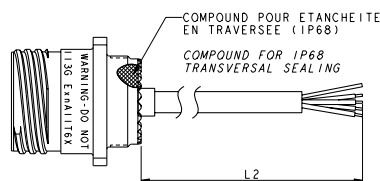


Part number	Plug	Nickel plating	Olive drab cadmium plating
		USBFTVX6N	USBFTVX6G
	IP68 metallic cap	USBFTVC6N	USBFTVC6G

Square flange receptacle

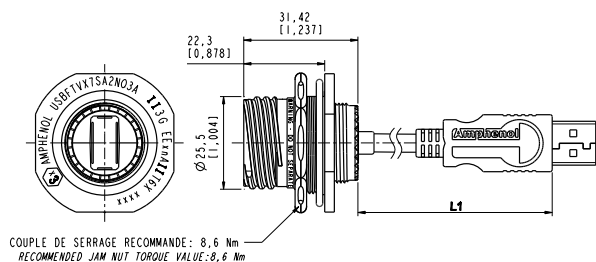


Cable end Type "A" (Standard USB "A" Plug)

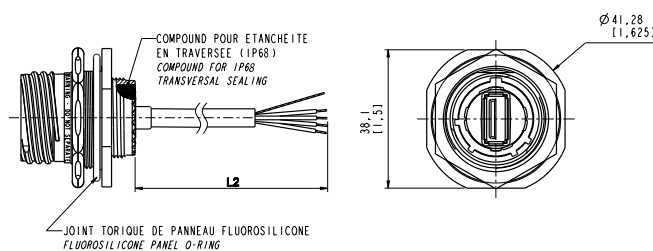


Cable end Type "OPEN" (No connector)

Jam nut receptacle



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



Cable end Type "OPEN" (No connector)

Part number code

Series	USBFTVC	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 :

		Nickel plating	Olive drab cadmium plating
Part number FOR	Cap for Square flange receptacle	USBFTVC2N	USBFTVC2G
	Cap for Jam nut receptacle	USBFTVC7N	USBFTVC7G



RJ11FTVX • Rugged and sealed RJ11/12 connector



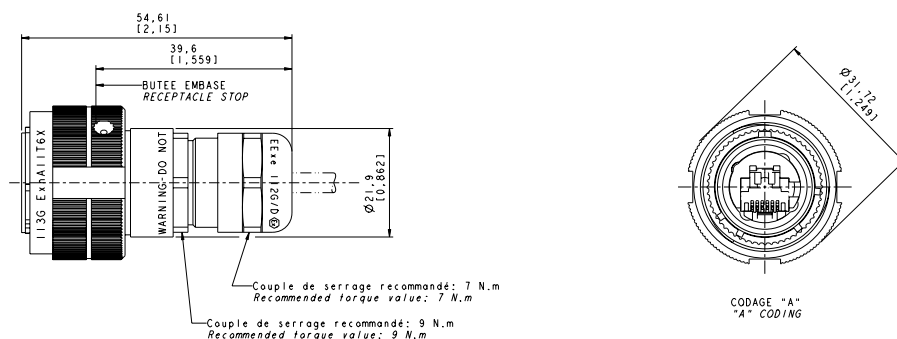
RJ11FTVX allows you to use a standard phone RJ11/RJ12 connection in Atex zone 2 environments.

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

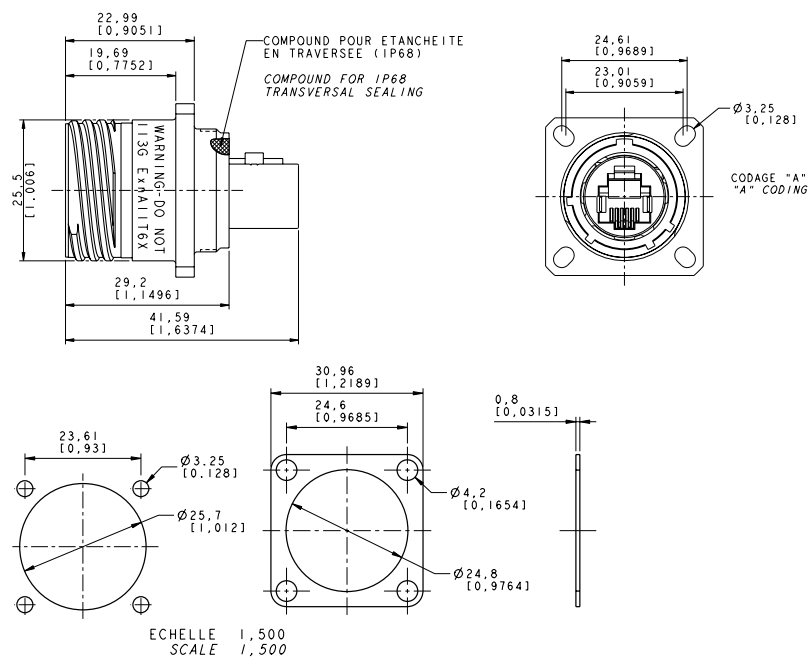
■ Ex marking	II3G ExnAIIIT6 X
■ Operating temperature range	-40°C / +60°C
■ Voltage	60 Veff max
■ Power	20 W max
■ Outside cable diameter	4mm to 5.5mm
■ Sealing	IP68
■ Coupling mechanism	Tri Star thread with anti-decoupling device (MIL-DTL-38999 series III)
■ Mating cycles	500 min
■ Salt spray	48h with 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	Plug Cap	Nickel plating	Olive drab cadmium plating
		RJ11FTVX6MN RJ11FTVC6N	RJ11FTVX6MG RJ11FTVC6G

Square flange receptacle

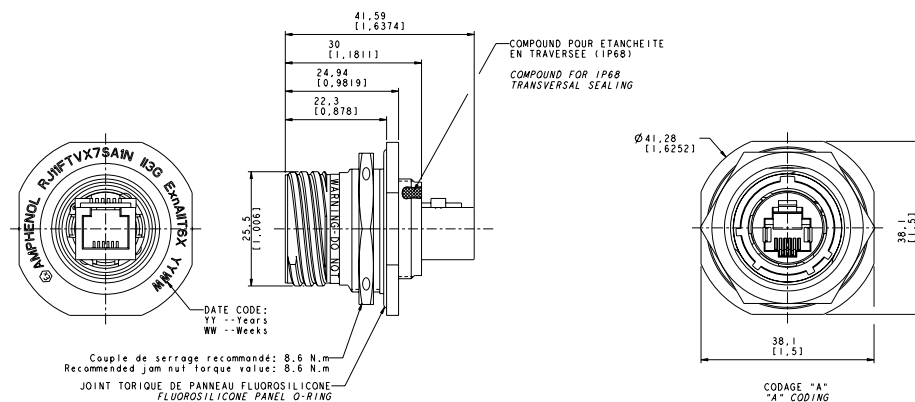


PERCAGES PANNEAU
PANEL DRILLING

JOINT DE PANNEAU FLUOR SILICONE JE15
JE15 FLUOROSILICONE PANEL GASKET

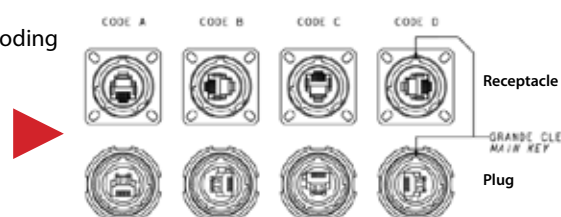
Part number	Receptacle - Female RJ45 back termination - Coding A Receptacle CAP	Nickel plating	Olive drab cadmium plating
		RJ11FTVX2SA1N RJ11FTVC2N	RJ11FTVX2SA1G RJ11FTVC2G

Jam nut receptacle



Part number	Receptacle - Female RJ45 back termination - Coding A Receptacle CAP	Nickel plating	Olive drab cadmium plating
		RJ11FTVX7SA1N RJ11FTVC7N	RJ11FTVX7SA1G RJ11FTVC7G

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



RJSPCEX ATEX ZONE 2 RUGGED & IP68

Sealed ethernet switch



This Ethernet Switch is a combination of rugged packaging with locking device for Zone 2 hazardous location, with fault-tolerant network redundancy.

Industrial Applications

- Oil & Gas
- Process Control
- Factory Automation

P/N: RJSPC-EX-5ES1-PLG-CAPS

Note: this part number includes:

- One ATEX Zone 2 IP68 Plug and Play Ethernet switch equipped with caps on Ethernet connectors
- One power plug equipped with anti decoupling nut
- Five Ethernet plugs equipped with anti decoupling spring

P/N: RJSPC-EX-5RS1-PLG-CAPS

Note: this part number includes:

- One ATEX Zone 2 IP68 RING Ethernet switch equipped with caps on Ethernet connectors
- One power plug equipped with anti decoupling nut
- Five Ethernet plugs equipped with anti decoupling spring

Outstanding features

- IP65/68 Sealing
- ATEX Zone 2II3G ExnAII T4X (EN60079-15 & EN60079-0)
- Plug and Play simplicity
- Ring redundancy
- Operating temperature: -40°F to 170°F (-40°C to +75°C)

Key Features

- Ring Switch Networking Features (managed features available!)
 - Real-Time Ring for ultra-fast fault-tolerant loops
 - Recovery time of 30 ms + 5 ms per hop!
 - Modbus monitoring over Ethernet
 - Ideal for deterministic systems and PLCs
 - Real-time traffic prioritization (QoS and CoS)
 - Assure delivery of real-time data
 - Improve network utilization
 - User settable priority assignments
 - Advanced switch features
 - User configurable port settings
 - Port mirroring for traffic diagnostics
 - Pre-configurable for Plug-And-Play simplicity

Description (example for Ring model)

- Waterproof IP68 Rating (NEMA 6)
- Reduced Installation Costs with the patented RJStop® system
- Use any standard RJ45 cordset
- Rugged Enclosure in Polyester reinforced with 30% glass fiber
- Redundant power inputs with surge/spike protection
- Ultra reliable 1,000,000 hours Mean Time Between Failure (MTBF)
- Zone 2 hazardous location (models RJSPC-EX)



- 1 LEDs indicating activity, link status, datarate (10/100 Mbps)
- 2 LED indicating ring status
- 3 5 rugged IP68 RJ Field Ethernet ports
- 4 Real-time ring feature
- 5 IP68 polyester enclosure reinforced with glass fiber
- 6 OK power & ring status
- 7 LEDs indicating power
- 8 Anti-decoupling nut for power plug
- 9 Anti-decoupling spring for ethernet plugs

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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