

Other rugged solutions



Field installable

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FWF TV

IEEE 1394A Connection System for Harsh Environments



Applications

- Embedded Computers
- Video
- Railways
- Battelfield Communication Systems
- Naval & Shipboard Systems
- Robotics & Automation
- Process Control
- Rugged Communications

Data transmission

IEEE 1394a-2000
400 Mbits/second over 4.5 meters

With FW Field, you can insert a standard IEEE1394A cordset into a metallic plug which will protect it from shocks, dust and fluids.

No hazardous on-field cabling and grounding!

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.

Main characteristics

- No assembly tools required
- Sealed against fluids and dusts (IP68)
- No time-consuming in-field cabling operation necessary
- **Tri-start thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device**
- FW plug retention in the receptacle: 100 N in the axis
- Mating cycles: 500 minimum
- Improved EMI protection

Environmental protection

- Sealing (mated): IP68 (Temporary immersion - 1 meter up to 30 minutes)
- Salt Spray: 48 h with Nickel plating
> 500 h with Olive Drab Cadmium
- Fire Retardant / Low Smoke: UL94 V0 and NF F 16 101 & 16 102
- 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] onto connectors (mated pair)
- Humidity: 21 days, 43°C, 98% humidity
- Temperature Range: - 40°C / +85°C

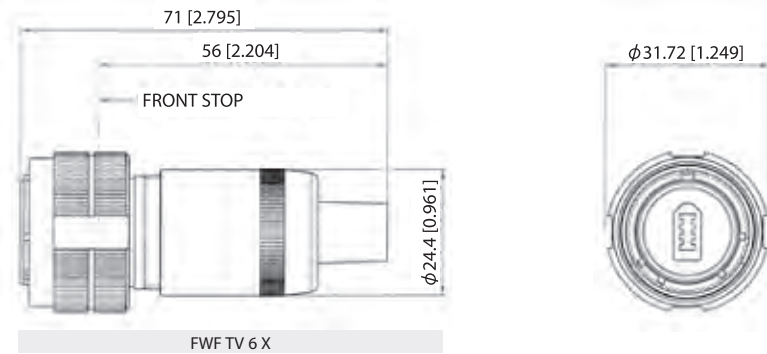
Part number code

Series	FWF TV	2	1	G
IEEE1394 Field TV				
Shell Type				
6:	Plug			
2:	Square Flange Receptacle			
2PE:	Square flange receptacle with metal backshell (type 1) & with metal backshell + plastic gland (type 2)			
7:	Jam Nut Receptacle			
7PE:	Jam nut receptacle with metal backshell (type 1) & with metal backshell + plastic gland (type 2)			
Back Terminations (Receptacles only)				
1:	IEEE 1394 receptacle			
2:	Solder Board (6 tinned holes)			
Shell Plating				
N:	Nickel - ROHS Compliant			
G:	Olive Drab Cadmium			

- Examples:
- Olive Drab Cadmium Plug: FWF TV 6G
 - Olive Drab Cadmium Square Flange Receptacle, IEEE 1394 front & back: FWF TV 21G
 - Olive Drab Cadmium Jam Nut Receptacle, IEEE 1394 front and back: FWF TV 71G
 - Nickel Jam Nut Receptacle, solder board termination: FWF TV 72N

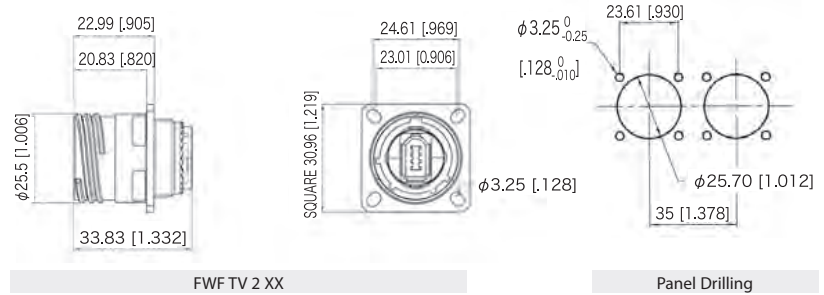
Plug

- Shell type 6

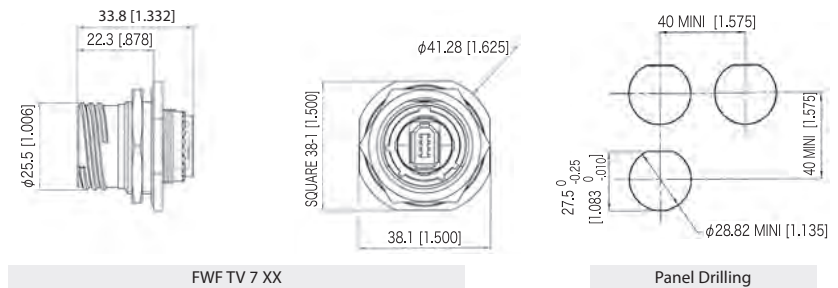


Receptacles

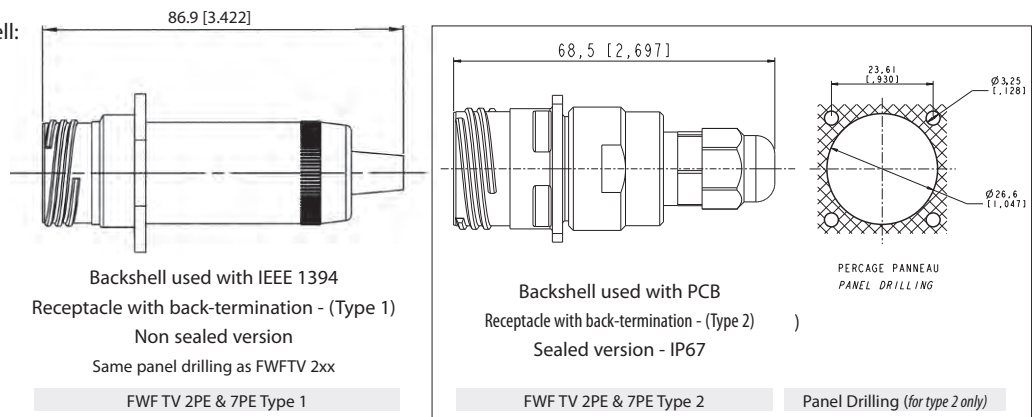
- Square flange receptacle
4 mounting holes: Shell type 2



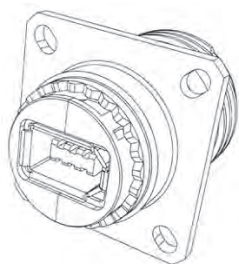
- Jam nut receptacle
Hexagonal Nut mounting: Shell type 7



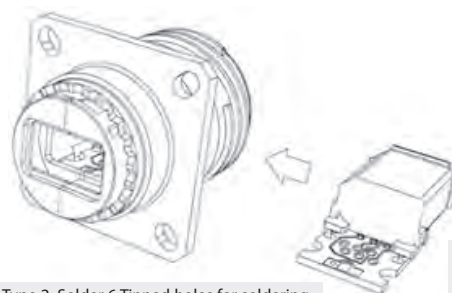
- Receptacles with backshell:
Shell type 2PE and 7PE



Back terminations



Type 1: IEEE 1394 Receptacle



Type 2: Solder 6 Tinned holes for soldering

View of the PCB Type 2 version - with 6 tinned holes for solder termination

Assembly instructions

Can be used with most IEEE 1394 cordset brands: No tools required!

Plug Assembly

1. If a fully sealed (IP68) assembly is required: Install the white tape around the plug to cover the 4 holes of the overmolding. If there are no holes omit this step.
2. Insert the black O Ring around the front face of the IEEE 1394 plug. This O Ring will ensure the seal.
3. Insert the IEEE 1394 cordset into the metallic backshell.
4. Insert the retention spacer laterally onto the cable (this spacer is soft so as to adapt to various overmolding styles) and slide the IEEE 1394 plug into this retention spacer.
5. Insert the friction ring laterally onto the cable cordset.
6. Insert the IEEE 1394 plug into the metallic circular shell. Note at this step that the main key is used for polarization.
7. Screw the backshell on the plug body. A spanner may be required to fully close the backshell to the circular shell.

Important Note: The sealing of the connector is not done by the black retention spacers which are slotted, but rather by the front face O-Ring (Fig 2).

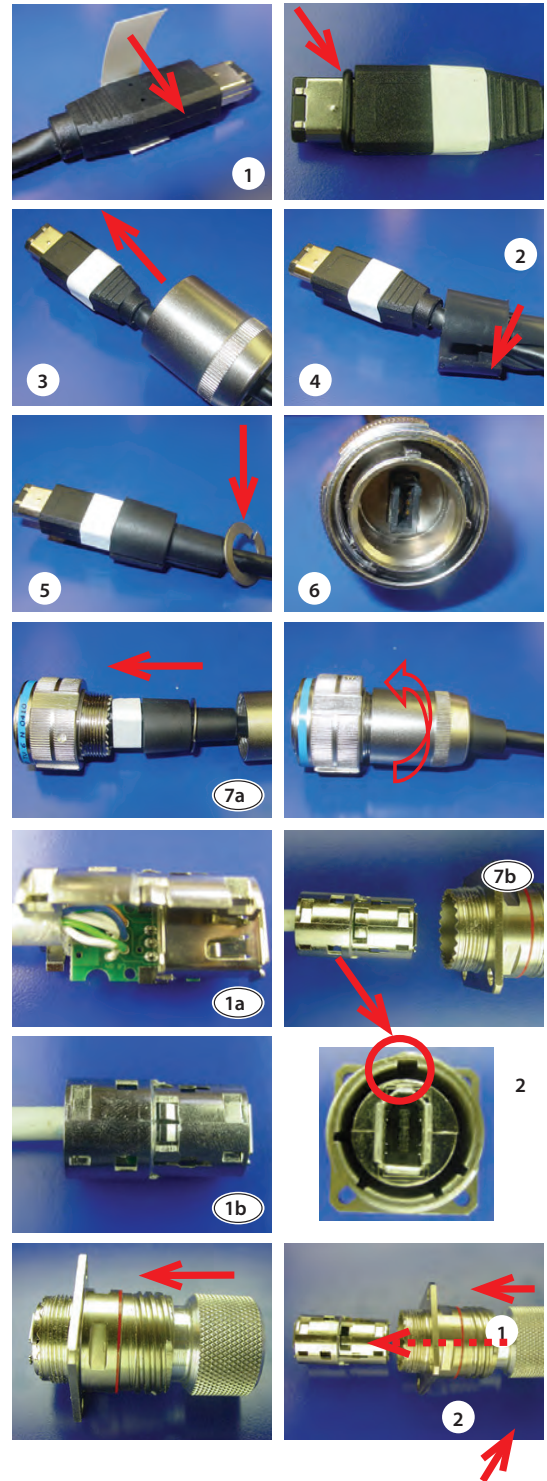
Receptacle assembly

To Solder your cable onto the PCB:

1. Attach the 2 metallized plastic inserts around the PCB (Fig 1a & 1b).
2. Insert the IEEE 1394 module from the rear of the connector.

Removing Modules

1. Insert the removal tool FWF ODE from the front
2. Push the module back with thumb.



Accessories

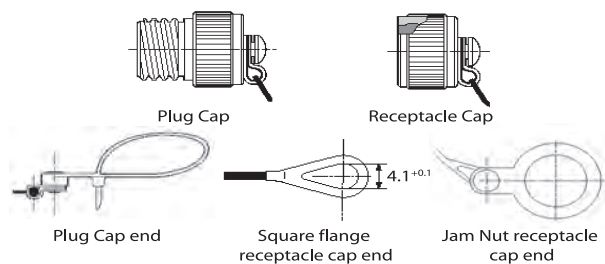
Metallic Caps

	FWF TVC	2	G
Connector Type			
6:	Plug		
2:	Square Flange Receptacle		
7:	Jam Nut Receptacle		
Shell plating			
N:	Nickel - ROHS Compliant		
G:	Olive Drab Cadmium		

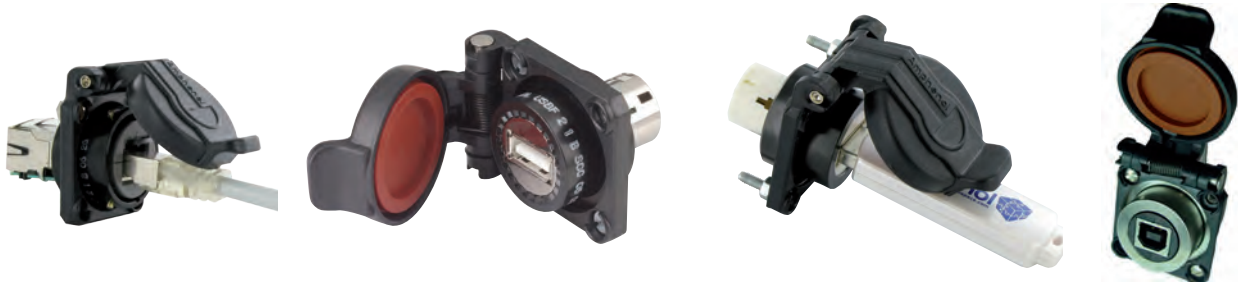
- Panel Gasket for square flange receptacle (Thickness: 0,8 mm [.031]): JE15



- Receptacle Insert removal tool: FWF ODE

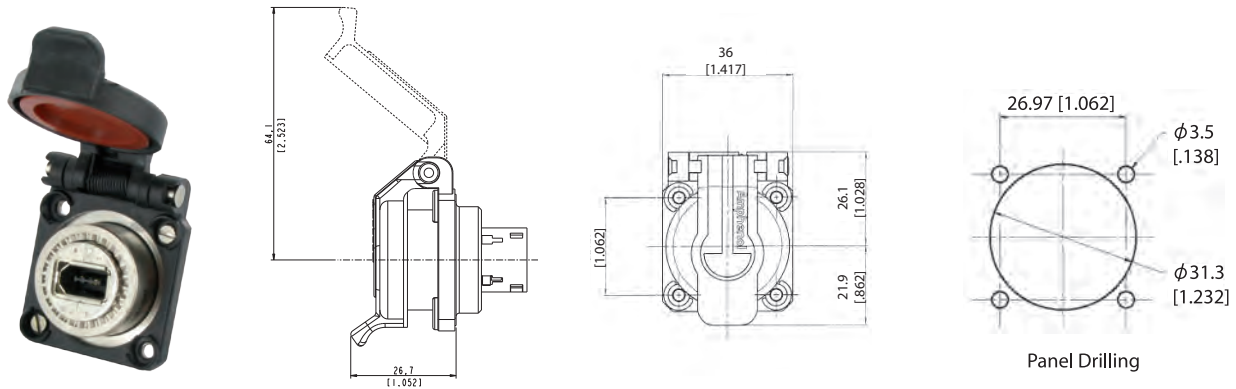


IEEE1394 Receptacle with Self Closing Cap



This Self Closing Cap automatically protects the IEEE1394 square flange receptacles (MIL-C-26482 type), protecting your system from dust and water projections. A spring automatically closes the upper part of the cap when the IEEE1394 plug, or IEEE1394 cordset, are removed from the receptacle.

FWF 21 X SCC



Version IEEE1394

Part number *	IEEE1394	
	Plating	Metallized inserts (EMI)
FWF 21B SCC	Black coated	No (blank insert)
FWF 21N SCC	Nickel plated	Yes
FWF 21G SCC	Olive drab cadmium plated	Yes

* The part number includes the receptacle + the self closing cap

■ **Note:** Panel gasket with any of these receptacles: JE18



RJ45 21 X SCC, USBF 21 X SCC, USBBF 21 X SCC



RJ45 version

(see page 25)

USB2.0 & 3.0 - A version

(see pages 94 & 107)

USB-B version

(see page 118)

RJ11F

Rugged RJ11/RJ12 Connection System for Harsh Environment



RJ11Field allows you to use a standard phone RJ11 / RJ12 connection in harsh 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.
No hazardous on-field cabling!

Applications

- Industrial applications
- Battlefield communication

Main characteristics

- Bayonet coupling ("Audible & Visual" coupling signal)
- Robust metallic shells based on MIL-DTL-26482 H
- 4 mechanical user-defined coding / Polarization settings (insert rotation)
- RJ11 cordset retention in the plug: 100 N in the axis
- Mating cycles: 500 min

Environmental Protection

- Sealing: IP68
- Salt Spray: 48 h with Nickel plating
> 96 h with black coating
> 500 h with Oliv Drab Cadmium
- Fire Retardant / Low Smoke: UL94 V0 and NF F 16 101 & 16 102
- Vibrations: 10 – 500 Hz, 10 g, 3 axes: no discontinuity > 10 nano s.
- Shocks: IK06: weight of 250 g drop from 40 cm [15.75 in] onto connectors (*mated pair*)
- Humidity: 21 days, 43°C, 98% humidity
- Temperature Range: - 40°C / +85°C

Part Number Code

Series	RJ11F	2	2	B
RJ11Field				
Shell Type				
6:	Plug, Plastic Gland			
2:	Square Flange Receptacle			
7:	Jam Nut Receptacle			
Back Terminations (For Receptacles only)				
1:	Female RJ11			
2:	Solder (6 tinned holes)			
Shell Finishes				
B:	Black Coating - ROHS Compliant			
N:	Nickel - ROHS Compliant			
G:	Olive Drab Cadmium			
ZN:	Black Zinc Nickel - ROHS Compliant			

Examples: - Black Plug: RJ11F 6 B
- Black square flange receptacle, Female RJ11 Back termination: RJ11F 2 1 B
- Nickel Jam Nut Receptacle, solder termination: RJ11F 72 N

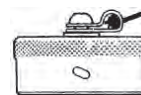
■ Metallic cap

	RJ11FC	2	B
Connector Type			
6:	Plug		
2:	Square Flange Receptacle		
7:	Jam Nut Receptacle		
Finishes			
B:	Black Coating - ROHS Compliant		
N:	Nickel - ROHS Compliant		
G:	Olive Drab Cadmium		
ZN:	Black Zinc Nickel - ROHS Compliant		

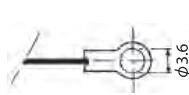
- Panel gasket for square flange « 2 » thickness: 0,6 mm
P/N: JE 14



Plug cap



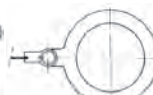
Receptacle cap



Square Flange
type « 2 »



Plug Cap end
type « 6 »



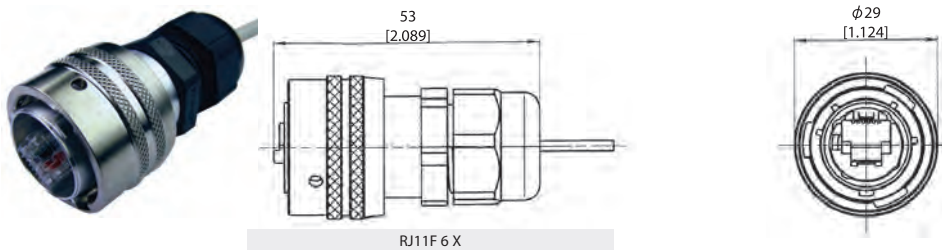
Jam nut receptacle
type « 7 »

- Insert removal tool for receptacle and plug
P/N = RJ11F ODE



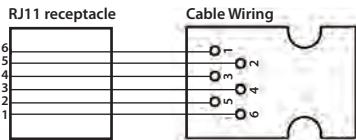
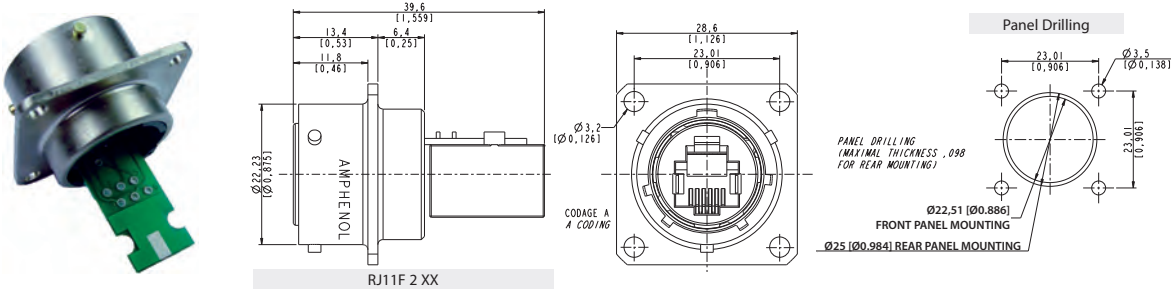
Plug

■ Shell type 6 with Plastic Gland

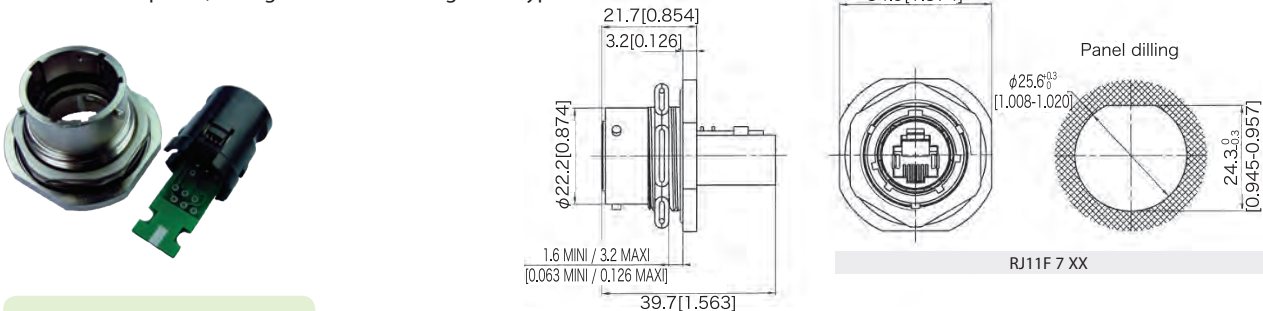


Receptacles

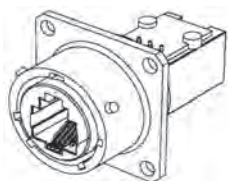
■ Square flange receptacle, 4 mounting holes: shell type 2



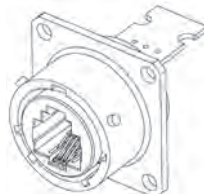
■ Jam nut receptacle, Hexagonal Nut mounting: Shell type 7



Back terminations



Type 1: Female RJ11 / RJ12

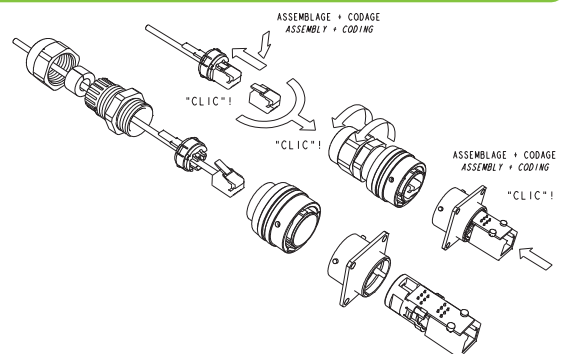
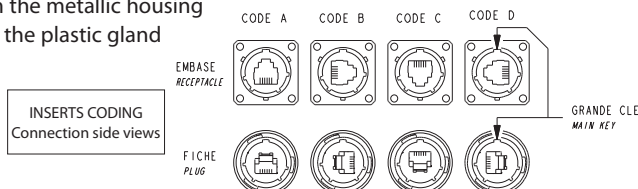


Type 2: Solder 6 Tinned through holes to solder your cable

Assembly instructions

Easy and Safe: No field cabling tools required

1. Pass the RJ11 / RJ12 plug through the plastic gland
2. Laterally slide the insert on the cable
3. Fix the RJ11 / RJ12 plug in the insert, pushing on the lever
4. Insert in the metallic housing
5. Tighten the plastic gland

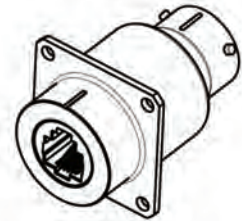
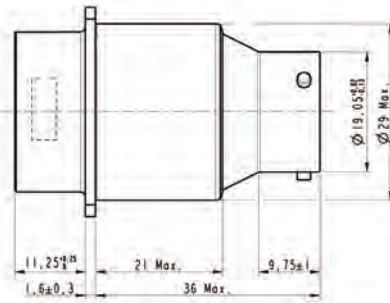




Special RJ11 adaptor

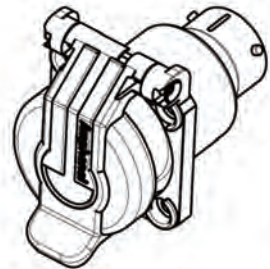
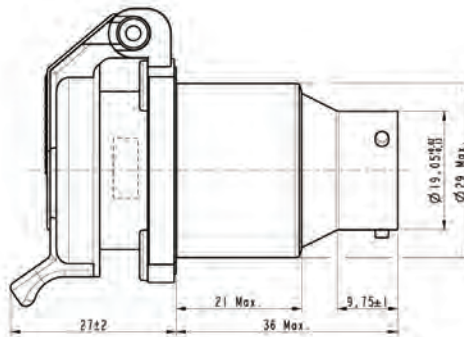
For Military & Commercial Aeronautics

RJ11 adaptor only

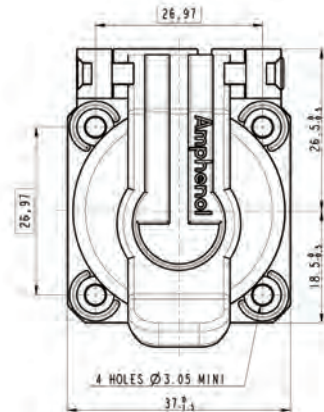
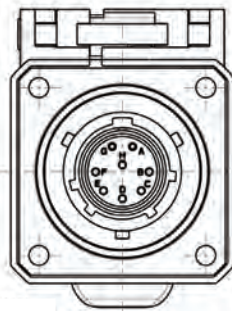


Part number	Coding	
	35639	Y
35641	W	
35643	Z	
35645	N	

RJ11 adaptor + Self Closing Cap

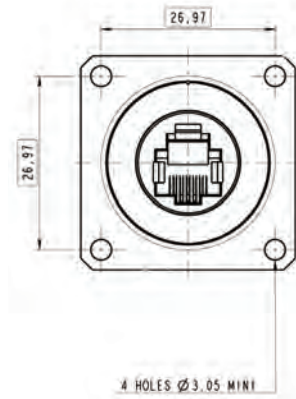
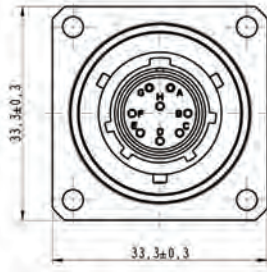
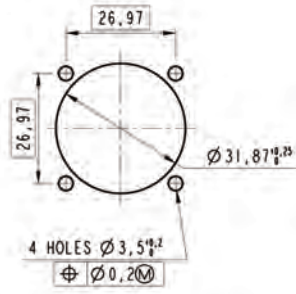


Part number	Coding	
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35640	Y	
35642	W	
35644	Z	



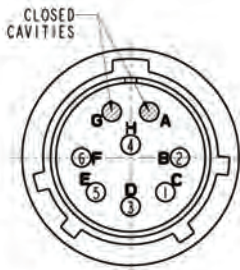
For all options:

Panel Drilling

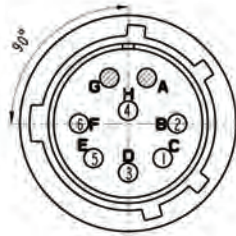


12-8 Male contact / EN3155

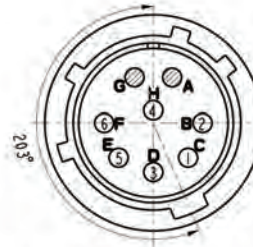
Coding N



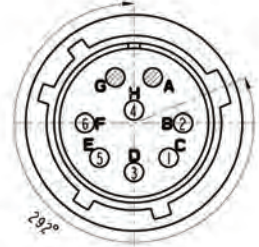
Coding W



Coding Y



Coding Z



MTRJF TV

Fiber optic solution - Transform your MTRJ patchcord into an Environmental Connector



With MTRJF TV you can use a standard MTRJ patchcord in a **metallic** plug which will protect it from shocks, dust and fluids.

No hazardous on-field cabling!

The MTRJ Field offers an easy system to upgrade from a standard to an environmental MTRJ.

- Sealed against fluids and dust (IP68)
- Shock, Vibration proof,
- No cabling operation in field and no tools required for installation

Applications

- Railways
- Base Station
- Military communication
- Navy

Mechanical characteristics

- Number of Channels: 2
- Typical Insertion Loss: 0,5dB in MM
- Durability: 500 mating/unmating cycles (changes for <0,2 dB)

Part Number Code

Serie	MTRJF TV	6M	C	G	N
MTRJ Field TV					
Shell Type					
6:	Plug with metal backshell, plastic PG clamp				
6M:	Plug with metal backshell and metal PG clamp				
2:	Square flange receptacle				
2PE:	Square flange, metal backshell and plastic PG clamp				
2PEM:	Square flange, metal backshell and metal PG clamp				
7:	Jam nut receptacle				
7PE:	Jam nut, metal backshell and plastic PG clamp				
7PEM:	Jam nut, metal backshell and metal PG clamp				
Cable Type					
Only for receptacle					
0:	Receptacle without backshell				
Only for plug					
C:	Mini round cable 2,8 mm				
D:	Flat duplex cable 1,6 mm				
S:	Duplex zipcord 1,6 mm				
T:	Flat duplex cable + Duplex zipcord for 1,6 mm - 2mm - 2,8mm				
Shell Finish					
N:	Nickel plated				
G:	Olive drab cadmium plated				
B:	Bronze				
ZN:	Black Zinc Nickel - ROHS Compliant				
Polarization					
N:	Normal				
A / B / C / D / E					

Cap Series	B	EC	N	TV	W	13
Protective cap type						
EC:	For square flange receptacle					
ER:	For jam nut receptacle					
F:	For plug					
Wire type						
N:	Nylon cord					
Blank:	Metallic chain					
TV:	Series					
Shell finish						
B:	Bronze					
F:	Electroless nickel plated, aluminium version					
W:	Olive drab cadmium plated, aluminium version					
ZN:	Black Zinc Nickel - ROHS Compliant					

Requested information to order MTRJ Field Patchcord

Plug MTRJ: Male /Female
 Type of fiber: 50/125, 62,5/125, 9/125
 Patchcord length: ex 10.5m
 Drawing: description of the product

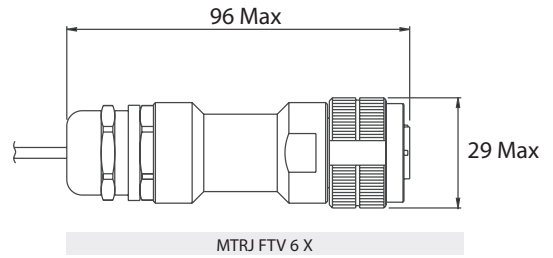
Contact us for other configuration

Dismounting Tool Ordering Information

MTRJF TV DM TOOL

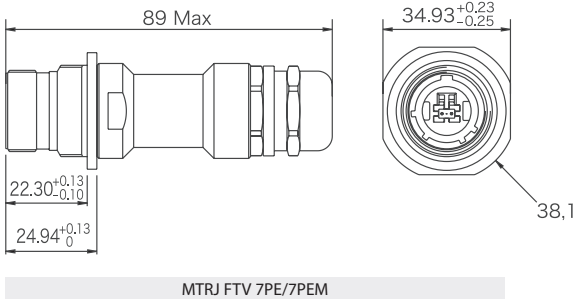
Line drawings (Dimensions in mm)

■ Plug (MIL DTL 38 999 series III Size 13)

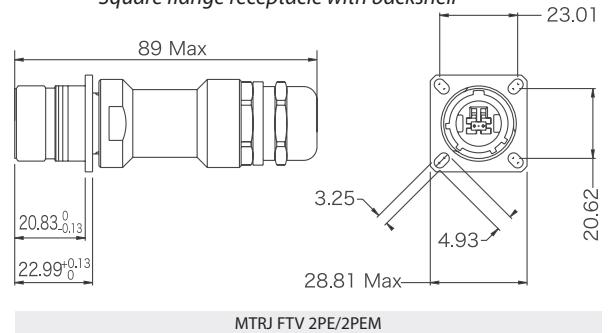


■ Receptacle (MIL DTL 38 999 series III Size 13) with backshell

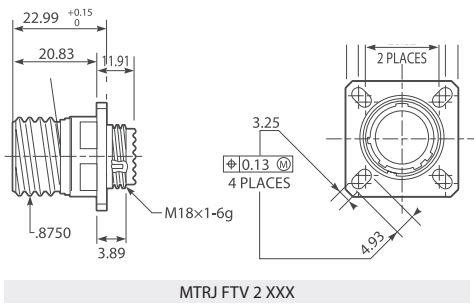
Jam Nut receptacle with backshell



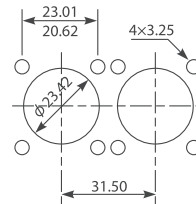
Square flange receptacle with backshell



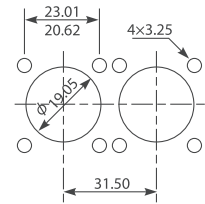
■ Square Flange Receptacle (MIL DTL 38 999 series III Size 13)



Square flange receptacle rear panel mounting

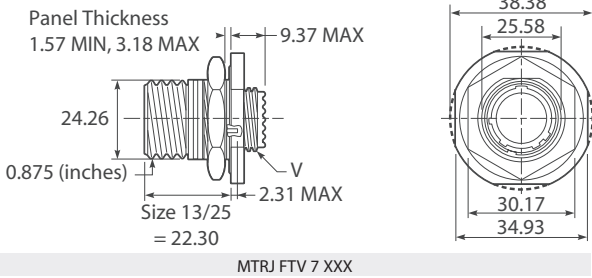


Square flange receptacle front panel mounting

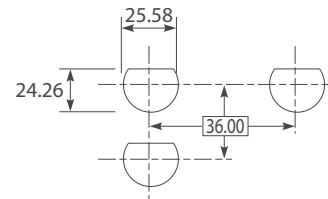


Panel Drilling

■ Jam Nut Receptacle (MIL DTL 38 999 series III Size 13)



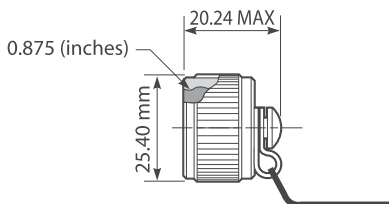
Jam nut receptacle rear panel mounting



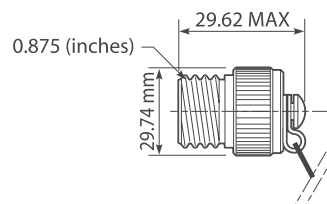
Panel Drilling

Protective caps

Protective cap for plug (nylon cord)



Protective cap for receptacles (nylon cord)



LC FIELD

Fiber optic solution - Transform your LC patchcord into an Environmental Connector



The LC Field offers an easy system to upgrade from a standard to an environmental LC.

- Sealed against fluids and dust (IP68)
- Shock, vibration proof
- No cabling operation in field and no tools required for installation (except 1,6mm and 2mm zipcord cable)

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

No hazardous on-field cabling!

Applications

- Railways
- Base Station
- Military communication
- Navy

Mechanical characteristics

- Number of Channels: 2
- Typical Insertion Loss: 0,5dB in MM and SM
- Durability 500 mating/unmating cycles (changes for <0,2 dB)

Part number code

Serie	LCFTV	6M	D	G	N
Optical connector type					
Shell Type					
Plug (compatible for all LC PC and APC Duplex)					
6M: Plug with metal backshell and metal PG clamp					
Receptacle without backshell					
Compatible for all LC PC Duplex (adapter blue color)					
2: Square flange receptacle					
7: Jam nut receptacle					
Compatible for all LC APC Duplex (adapter green color)					
2A: Square flange receptacle					
7A: Jam nut receptacle					
Cable Type					
Only for plug					
D: Flat duplex cable 1,6 mm					
E: Duplex zipcord 1,6 mm					
F: Flat duplex cable 2 mm					
G: Duplex zipcord 2 mm					
H: Flat duplex cable 2,8 mm					
I: Duplex zipcord 2,8 mm					
T: Flat duplex cable + Duplex zipcord for 1,6 mm - 2 mm - 2,8 mm					
Only for receptacle (no backshell available for receptacle)					
0: Receptacle without backshell					
Shell Finish					
N: Nickel plated					ZN: Black Zinc Nickel - ROHS Compliant
G: Olive drab cadmium plated					
B: Bronze					
Polarization					
N: Normal					or A / B / C / D / E

Cap Series	B	EC	N	TV	W	19
Protective cap type						
EC: For square flange receptacle						
ER: For jam nut receptacle						
F: For plug						
Wire type						
N: Nylon cord						
Blank: Metallic chain						
TV: Series						
Shell finish						
B: Bronze						
F: Electroless nickel plated, aluminium version						
W: Olive drab cadmium plated, aluminium version						
ZN: Black Zinc Nickel - ROHS Compliant						
Corresponding connector shell size: 19						

Requested information to order LC Field Patchcord

Type of connector: Male /Female
 Type of fiber: 50/125, 62,5/125, 9/125
 Patchcord length: ex 10.5m
 Drawing: description of the product
 Contact us for other configuration.

Tools informations

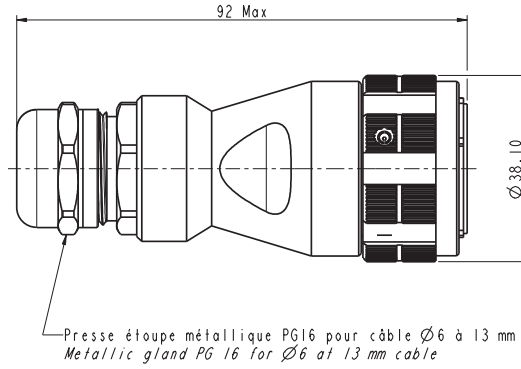
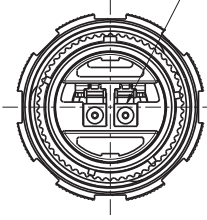
Mounting Tools:
 LCFTV MO TOOL: LC FIELD Mounting tools

Dismounting Tools:
 LCFTV DM TOOL: LC FIELD Dismounting tools
 (To dismount the LC you need to use both dismounting and mounting tools)

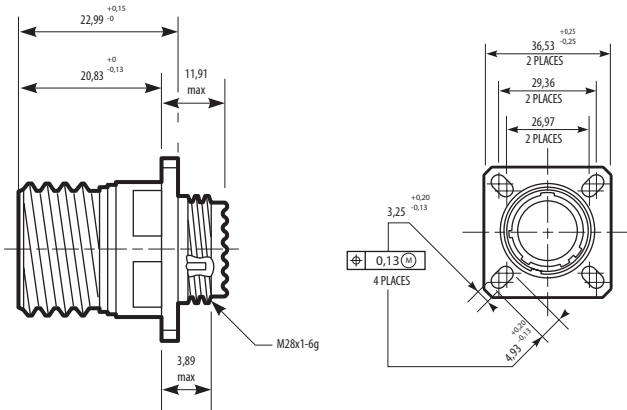
Line drawings (Dimensions in mm)

■ Plug (MIL DTL 38 999 series III Size 19)

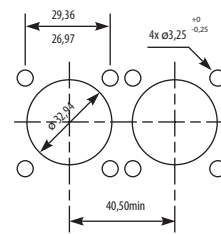
Connecteur LC Duplex (Non fourni)
LC Duplex connector (Not supplied)



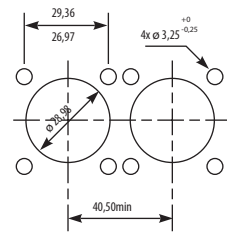
■ Square Flange Receptacle (MIL DTL 38 999 series III Size 19)



Square flange receptacle rear panel mounting

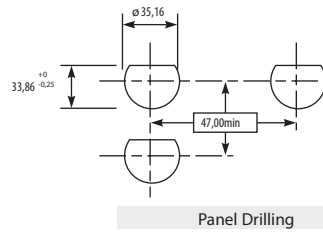
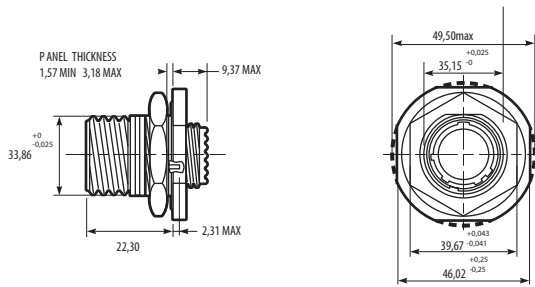


Square flange receptacle front panel mounting



Panel Drilling

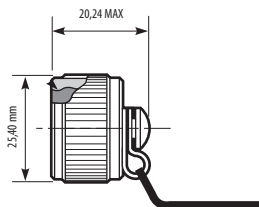
■ Jam Nut Receptacle (MIL DTL 38 999 series III Size 19)



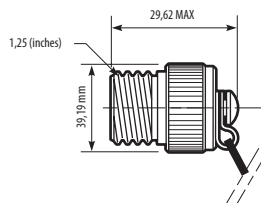
Jam nut receptacle rear panel mounting

Panel Drilling

Protective caps



Protective cap for plug (nylon cord)



Protective cap for receptacles (nylon cord)

GLOSSARY

10BASE-T

10 Mbps Ethernet on twisted-pair (Category 3) cable.

100BASE-T

The twisted pair version of 100 Mbps Ethernet. Requires Category 5 cabling.

1000BASE-T

A recent LAN standard for implementing 1000 Mbps Ethernet on Category 5 cable. Also called Gigabit Ethernet.

Auto-MDIX

A protocol which allows two Ethernet devices to negotiate their use of the Ethernet Transmit (Tx) and Receive (Rx) cable pairs. This allows two Ethernet devices with MDI or MDI-X connectors to connect without using a cross-over cable.

Baud

A unit of measurement that denotes the number of bits that can be transmitted per second. For example, if a modem is rated at 9600 baud it is capable of transmitting data at a rate of 9600 bits per second.

Bandwidth

The maximum capacity of a network channel. Usually expressed in bits per second (bps). Ethernet channels have bandwidths of 10, 100, and 1000 Mbps (Gigabit).

bps

Bits Per Second is the unit used for measuring line speed, the number of information units transmitted per second.

Broadcast

A transmission initiated by one station and sent to all stations on the network.

Byte

The amount of memory needed to store one character such as a letter or a number. Equal to 8 bits of digital information. The standard measurement unit of a file size.

Category 5

A performance classification for twisted pair cables, connectors and systems. Specified to 100 MHz. Suitable for voice and data applications up to 155 Mbps.

Category 5 e

Also called Enhanced Category 5. A performance classification for twisted pair cables, connectors and systems. Specified to 100 MHz. Suitable for voice and data applications up to 1000 Mbps.

Category 6

A performance classification for twisted pair cables, connectors and systems. Specified up to 250 MHz.

CSMA/CD

Carrier Sense Multiple Access/Collision Detect. The Medium Access Control (MAC) protocol used in Ethernet.

Data rate

The speed of the data transmission, measured in bps (bits per second) or Mbps.

Duplex (Full, Half)

Full duplex is a communications method that allows for the simultaneous transmission and reception of data. In Half Duplex communication, transmissions and receptions can occur in either direction but not at the same time.

Ethernet

The most common network protocol in use. A protocol is a set of rules enabling data communications. Ethernet can operate over several different media including fiber optic, coaxial cable and twisted-pair cable.

IEEE 802.3

IEEE Working Group for CSMA/CD, the protocol used in Ethernet transmissions.

IGMP snooping

The ability of a switch to observe Internet Group Multicast Protocol (IGMP) traffic in order to learn IP Multicast group membership. The purpose is to restrict multicast transmissions to only those ports which have requested them.

LAN

Local Area Network. A network of directly-connected machines (located in close proximity), providing high speed communication over physical media such as fiber optics, coaxial cable, or twisted pair wiring.

MAC Address

A unique address assigned to a station interface, identifying that station on the network. With Ethernet, this is the unique 48-bit station address. Same as the physical address.

Megabit (Mb)

Megabit. One million bits of information, usually used to express a data transfer rate ; 1 Megabit/second = 1Mbps.

Megabyte (MB)

MegaByte. A unit of data storage size which represents one million characters of information.

Multicast

A transmission initiated by one station to many stations of the network.

Port Mirroring

Port mirroring allows a switch port to monitor packets from any or all of its ports so that traffic can be analysed.

Quality of Service (QoS)

Some switches support QoS (per 802.1p and 802.1Q standards) whereby messages can be assigned levels of priority. QoS is important where time-critical applications can be impaired by data delays.

RJ45

8-position modular jacks used on twisted pair links for Ethernet cabling.

RJ-Field

A wide range of connectors which allow to reinforce and seal standard RJ45 cable. See www.rjfield.com

SNMP

Simple Network Management Protocol. This is THE standard used for switch management programs.

Spanning Tree Protocol (STP)

A link management protocol providing path redundancy and preventing network loops by defining a tree to span all switches in a network. It forces redundant data paths into a standby (blocked) state. If a path malfunction occurs, the topology is reconfigured and the link reestablished by activating the standby path.

TCP/IP

Transmission Control Protocol/Internet Protocol. A set of protocols, resulting from ARPA efforts, used by the Internet to support services such as remote login (TELNET), file transfer (FTP) and mail (SMTP).

TELNET

The Internet standard protocol for remote login (terminal connection) service. TELNET allows a user at one site to interact with a remote timesharing system at another site as if the user's terminal were connected directly to the remote computer.

VLAN

Virtual Local Area Network. A LAN that maps stations on a basis other than location such as by department, user type or application. Managing traffic, workstations, and bandwidth can be easier with a VLAN and improve network efficiency.

CABLE datas

	Category 5 (Cat5)	Category 5E (Cat5E)	Category 6 (Cat6)	Category 6a (Cat6a)	Category 6A (Cat6A)	Category 7 (Cat7)
Data rate	100 MBit/s	1 GBit/s	1 GBit/s	10 GBit/s	10 GBit/s	10 GBit/s
Frequency	100 Mhz	100 Mhz	250 Mhz	500 Mhz	500 Mhz 3db	600 Mhz
Twisted pairs	2 or 4 pairs	4 pairs	4 pairs	4 pairs (each pair individually shielded)	4 pairs (each pair individually shielded)	4 pairs (each pair individually shielded)
Max lenght	100 m	100 m	55 m	100 m	100 m	100 m
Specification	ANSI/TIA-568-A 1-2001	TIA/EIA-568-5-A	ANSI/TIA-568-B. 2-1	ANSI/TIA-568-B. 2-10	ISO/IEC 11801 amendment 2	ISO/IEC 11801 2002 category7/ class F

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