

TFOCA patchcord Physical Contact Hermaphroditic Connectors

Description:

The TFOCA optical modules are designed for connection of the nodes of tactical network by the help of cables with optical fibers. The used enhanced technology preserves all advantages of signals transmission through the optical lines in field harsh environmental conditions.

The connector includes an optical interface with four standard 2.5 mm ferrules with solid core alignment sleeves. The front insert can be easily removed for field maintenance and cleaning.

The TFOCA Hermaphroditic coupling eliminates the need for adaptors and male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating low loss Single mode, Multimode and Hybrid daisy chained links in a variety of planforms ranging from simplex fiber to a copper Hybrid. The TFOCA is ideally suited for environmental extremities where low maintenance is required.

There are two different types of TFOCA connection modules:

- LD type military tactical cable with TFOCA plugs at both sides
- b) Hybrid connection module TFOCA to standard fiber optic connectors (FC, SC, ST, LC, ...)



Features:

- Hermaphroditic interconnection
- 4 Fiber channels Single mode or Multimode
- Rugged connector design
- Two versions

TFOCA plug tactical cable TFOCA bulkhead hybrid cable

Application:

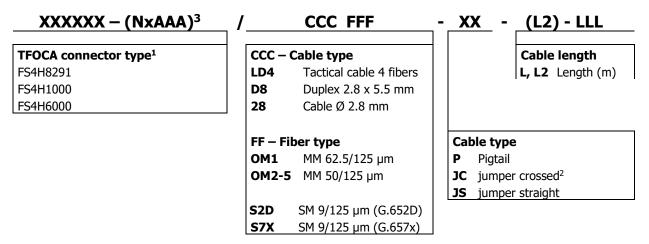
- Military communications
- **Broadcast**
- Industrial, Petrochemical

TFOCA connector specifications:

Insertion Loss (Single Mode)	0.40 dB – Typical, 0.75 dB – maximum
Back Reflection (Single Mode-UPC Polish)	-50 dB – Typical, -40 dB – maximum
Operating Temperature	-46° C to + 71° C
Storage Temperature	-55° C to + 85° C
Mud	Five minute immersion, clean with water (per MIL-C-83526/12
	/13 requirements)
Water Pressure	MIL-STD-810, Method 512.4, 1 m, 48 hr
Ice Crush	DOD-STD-1678, Method 4050
Humidity	DOD-STD-1678, Method 4030, 10 cycles
Flammability	MIL-STD-1344, Method 1012
Vibration (Operational)	MIL-STD-1344, Method 2500.1
Shock	EIA/TIA-455-14, Condition A
Mating Durability	2,000 cycles per EIA/TIA-455-21
Cable Seal Flexing	100 cycles per MIL-STD-1344, Method 2017, Procedure 1
Twist	1,000 cycles per EIA/TIA-455-36
Cable Retention	400 lb minimum per EIA/TIA-455-6, 1 hr (applies to plug and
	strain relief receptacles)
Impact	EIA/TIA-455-2
Crush Resistance	450 lb minimum per EIA/TIA-455-26
EMI Shielding Effectiveness (Receptacle Only)	> 60 dB, 15 kHz to 10 GHz
Corrosion Resistance	MIL-STD-1344, Method 1001, Condition A



Ordering Code:



Note: 1) Other type of rugged connector on demand

2) TFOCA cables: JC – standard, JS cable straight – on demand Hybrid cable: TFOCA to single fiber connectors (FC, SC, ST, LC, ..): JS – standard

3) Hybrid cable – TFOCA to standard connectors (defined according to the CON_13-01_EN-ORD_CODE)

N x AAA **TFOCA** XXX L2 LLL

Cable connection:

