



TFOCA Plug & Receptacle

About TFOCA

In 1999, Amphenol Fiber Systems International (AFSI) designed the TFOCA connector series as a purpose-made replacement for the connector portion of the US Army's legacy TFOCA (Tactical Fiber Optic Cable Assembly) equipment. This connector series has become known simply as "TFOCA." The AFSI TFOCA series has been formally approved by CECOM (US Army Communications Electronics Command, Fort Monmouth, New Jersey) and meets the performance criteria as specified in MIL-C-83526. In addition, AFSI is fully qualified and formally approved by CECOM to fabricate cable assemblies using the AFSI TFOCA connector. These assemblies have been tested in accordance with MIL-C-49292.

The TFOCA connector is a hermaphroditic design utilized for tactical deployable communications systems. This genderless characteristic allows for concatenations of cable assemblies without regard for connector interface compatibility.

The ruggedized connector and housing will withstand the repeated handling and mating cycles typically required for rapid fiber optic cable deployment and retrieval in a tactical environment.

Maintainability

All AFSI TFOCA connectors have a removable end cap to allow field level repair and cleaning. Removing the cap allows direct access to the alignment sleeve and termini for thorough cleaning and periodic maintenance.

Features

- Hermaphroditic design ideal for deployable conditions
- Replacement for US Army and US Marine Corps legacy TFOCA (AT&T)
- Hermaphroditic design
- Multimode
- Field maintainable and repairable
- Biconic termini

Benefits

The TFOCA's unique design and environmentally protected construction provide protection from high compressive and tensile loads. In addition, seals at every interface ensure outstanding resistance to moisture penetration. The cable termination is designed to firmly anchor the cable Kevlar® strength members to the connector housing without special tooling. The AFSI TFOCA connectors can be terminated and repaired in the field using existing US Army equipment or the AFSI TFOCA Termination Kit (P/N KTBK7000).

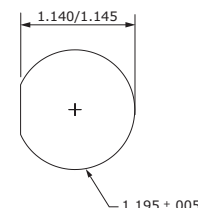
Applications

- Military Tactical Deployable Communication Systems
- Legacy US Army Systems
- Legacy US Marine Corps Systems

How to Order

For more information on how to order or to obtain a price quote on our TFOCA product line, call toll free (US only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail sales@fibersystems.com.

TFOCA Panel Cutout



TFOCA Specifications	
Specification	Measurement/Detail
Number of Channels	2 Channels
Optical Loss	0.6 dB (Typical) (MM)
Field Maintainable	Yes. Only requires common tools (screwdriver). No special tools required
Fiber Type	50/125 Radiation hard fiber available (phosphorus free)
Insertion Loss	50/125 Multimode fiber -0.6 dB typical
Operating Temperature	-10°C to +75°C
Mud	Per MIL-C-83526 /12 and /13
Shock	EIA/TIA-455-14, Condition A
Vibration	MIL-STD-1344, Method 2005.1
Cable Retention (Plug only)	400 lb minimum per EIA/TIA-455-6
Twist	1,000 cycles per EIA/TIA-455-36
Cable Seal Flexing	100 cycles per MIL-STD-1344, Method 2017, Pro. I
Mating Durability	2,000 cycles per EIA/TIA-455-21
Water Pressure	Per MIL-C-83526 /12 /13 Req
Ice Crush/Freezing Water Immersion	Per MIL-C-83526 /12 /13 Req
Impact	Per EIA/TIA-455-2
Crush Resistance	450 lb min per EIA/TIA-455-26
Flammability	MIL-STD-1344, Method 1012

About Amphenol Fiber Systems International

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, oil & gas, mining and broadcast applications. After more than a decade in business, AFSI continues to uphold its position as a global leader in fiber optic interconnect components and systems such as termini, M28876, MIL-ST, TFOCA and the TFOCA-II® connector, which AFSI developed and patented.

AFSI has delivered millions of fiber optic connectors worldwide. Whenever there is a need for superior, cost-effective fiber optic systems and products that will stand up to demanding operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

For more information about AFSI, visit www.fiber-systems.com.

FS7H8000 TFOCA Jam Nut Receptacle

FS7H1000 TFOCA Plug

