



*TFOCA-III® 24-Channel
Receptacle*

About TFOCA-III®

The TFOCA-III® 24-channel Fiber Optic Connector is ideal for environmentally harsh conditions. The unique TFOCA-II® connector series is designed and patented by Amphenol Fiber Systems International.

Enhancements with the TFOCA-III® design take advantage of the latest in fiber optic connectivity technology by utilizing industry standard physical contact ceramic ferrule and keyed termini.

The TFOCA-III® connector is designed to need little or no maintenance in the field. However, if field-level repair and cleaning is required, all TFOCA-III® connectors can be fully field repaired reusing all components with the exception of the termini. It has a removable end-cap to allow direct access to the alignment sleeve and termini.

Features and Benefits

- TFOCA-II® connector designed and patented by Fiber Systems International
- Hermaphroditic design for versatility
- Field repairable using existing parts
- Hermaphroditic dust cap for greatest protection
- Zn-Ni plating more environmentally friendly and more durable, corrosion resistant
- 12-channel connector design
- Zn Ni plating more environmentally friendly

- Zn-Ni plating greater salt spray corrosion resistance
- Precision ceramic termini for both single mode and multimode.

Applications

- U.S. Army, Navy, and Marine Corp military tactical deployments.
- Oil, Gas and Geoscience Industries.
- Industrial.
- Broadcast.

Materials

- **Ferrule:** 2.5mm diameter ceramic ferrule.
- **Exterior parts:** aluminum-zinc/nickel.
- **Interior parts:** aluminum-anodize/chemfilm.
- **Hardware:** stainless steel, passivated.
- **Seals:** nitrile.
- **Alignment sleeves:** solid core.

Options Available

- Plug
- Front jam nut receptacle
- Flange mount receptacle
- External jam nut receptacle
- External jam nut SRR
- Loopback
- Stainless steel (303, 304, 316 and 316L) plug and/or jam nut receptacle available.
- EPDM seals for NBC (nuclear, biological and chemical) environments.

How to Order

For more information on how to order or to obtain a price quote on any of our TFOCA-III® Products, please call us at 800.472.4225. For international calls please dial 214.547.2400 or email us at info@fibersystems.com

TFOCA-III® Connector Specifications

Specification	Measurement/Detail
Number of channels	24 channels
Filter type	62.5/125 or 50/125 multimode, 9/125 single mode
Insertion loss	62.5/125 or 50/125 multimode fiber: -0.3dB typical 9/125 single mode: -0.4dB typical
Back reflection	<-50dB with FSI 6 degree angle polish back
Operating temperature	-46o C to + 71o C
Mud	Per MIL-C-83526/12, /13 requirements
Shock	EIA/TIA-455-14, Condition A
Vibration	MIL-STD-1344, Method 2500.1
Cable retention	400 pounds minimum per EIA/TIA-455-6 (applies to plug and strain relief receptacles)
Twist	1,000 cycles per EIA/TIA-455-36
Cable seal flexing	100 cycles per MIL-STD-1344, Method 2017, Procedure 1
Mating durability	2,000 cycles per EIA/TIA-455-21
Water pressure	Per MIL-C-83526 /12 /13 requirements
Ice crush/freezing water immersion	Per MIL-C-83526 /12 /13 requirements
Impact	EIA/TIA-455-2
Crush resistance	450 pounds minimum per EIA/TIA-455-26
Flammability	MIL-STD-1344, Method 1012
EMI Shielding (Receptacle only)	> 60dB average H-field effectiveness 15kHz to 15MHz > 67dB average E-field effectiveness 15kHz to 10GHz

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. Altogether, AFSI has delivered millions of fiber optic connectors in more than 22 countries. 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, please visit our web site at www.fibersystems.com

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TFOCA-II is covered by U.S. Patents 6,305,849; 6,371,660 and 6,357,929

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