

TFOCA-XBT⁴™



Amphenol Fiber Systems International's TFOCA-XBT⁴™ incorporates expanded beam technology into the proven TFOCA-II® connector form factor.

The TFOCA-II® physical contact connector is the standard fiber optic connector for the US Army, designed for and proven in the harshest of military and industrial applications. The TFOCA-XBT⁴™ is the next logical step, integrating expanded beam technology into the most popular harsh environment fiber optic connector in the world.

Features :

- Expanded beam technology less susceptible to contaminants affecting optical performance
- Available in both multimode and single mode fiber
- Hermaphroditic design enables daisy-chaining of cable assemblies to support varying distances
- Non-contacting interface allows thousands of mating cycles
- 2 and 4-channel configurations available
- Cable retention designed to meet 400 lb pull strength while protecting fibers from stress
- Zn-Ni plating, provides substantial longevity to corrosive environments. Meets new mandate set by the Environmental Protection Agency for eliminating heavy metal plating
- Easy field maintenance and cleaning
- Also available in stainless steel and brass, allowing the connector to be used in a variety of applications

Applications :

- US Army, Navy, & Marine Corps military tactical deployments
- Oil, gas, and geoscience industries
- Industrial
- Broadcast

Specifications :

Description	Measurement/Detail
Insertion Loss	1.5 dB Multimode @ 850/1300 nm, 0.7 dB Typical 2.5 dB Single Mode @ 1310/1550 nm, 1.0 dB Typical
Return Loss	> 34 dB unmated @ 1310/1550 nm
Mating Durability	3000 cycles
Operating Temp	-46°C to 71°C
Cyclic Temp	-55°C to 85°C
Storage Temp	-57°C to 85°C
Humidity	95% RH
Immersion	50m, water (plug & receptacle)
Shock	EIA/TIA 455-14, test condition A
Impact	EIA/TIA 455-2, method C, service class: Severe
Vibration	EIA/TIA 455-11, sinusoidal condition III (at 10 g), random condition VI (letter C) for 1.5 hours
Weight	Approximately 350g plug and 150g receptacle

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Amphenol Fiber Systems International (AFSI), a division of Amphenol Military & Aerospace Operations (AMAO), is the largest manufacturer of harsh environment fiber optic cable assemblies & connectors in the world. Visit AMAO at amphenolmao.com.