

TFOCA I–TFOCA GenX™ Connector Adapter



Unique in its compact footprint, STRAN's TFOCA I to TFOCA GenX™ Connector Adapter is designed to assist in the transition of the legacy TFOCA I tactical interconnect system to STRAN's next generation TFOCA GenX™ fiber optic connector. One major advantage of this connector adapter is that it minimizes disruption and/or overhauling of existing fiber optic communication systems currently deployed throughout the world.

Some of the applications for STRAN's Connector Adapter include:

- Cabinet mounted communication systems
- Deployable military tactical systems
- Harsh environment video/data transmission
- Outdoor fiber optic connectors
- Homeland security and surveillance



Fully compatible with legacy systems, some of the key features of this connector adapter include

- 1st and only in the industry with 100% optically tested stainless steel alignment sleeves (TFOCA I)
- Standard hermaphroditic, or genderless dustcaps on both adapter ends
- Field demountable front inserts for improved maintainability
- Standard hermaphroditic adapter, both TFOCA I and TFOCA GenX connectors can be used as plug or receptacle
- Less than 5½" length without dustcaps
- PC polish on the zirconia ferrules (TFOCA GenX™)
- TFOCA GenX™ connector is fully compliant to the soon to be released MIL-PRF-83526/16 specification
- Other configurations available, such as: 45° and 90° models and TFOCA GenX™ keying combinations

MILITARY TACTICAL

MILITARY SHIPBOARD

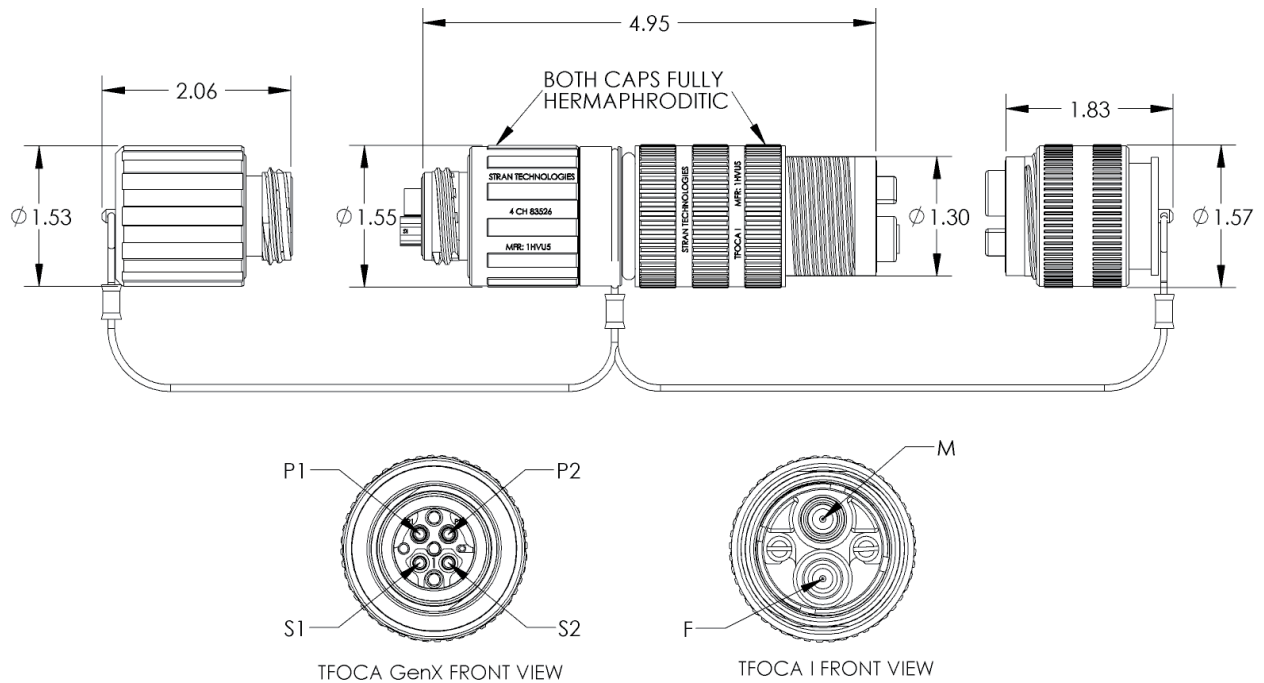
ENERGY

MINING

AEROSPACE

COMMERCIAL

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Adapter/Connector Performance Criteria:

Optical Insertion Loss	TFOCA GenX to TFOCA I @850nm: 4.25 dB _{max} TFOCA GenX to TFOCA I @1300nm: 3.40 dB _{max} TFOCA I to TFOCA GenX @850 & 1300nm: 2.25 dB _{max}
Vibration	10 g's per EIA/TIA-RS-455-11
Mating Durability	2000 cycles per EIA-455-21
Thermal Shock	-54°C to +71°C per TIA/EIA-455-71
Mechanical Shock	Per EIA/TIA-RS-455-11 Test Condition C
Temperature Life	250 Hours @ +85°C per EIA/TIA-RS-455-4
Corrosion Resistance	Per TIA/EIA-455-16 Test Condition C
Humidity	10 cycles per TIA/EIA-455-5
Fluid Immersion	Per TIA/EIA-455-12
Crush Resistance	450 lbs per TIA/EIA-455-12
Maintenance Aging	Per MIL-STD-1344, method 2002
Impact	Per TIA/EIA-455-2