

TFOCA GenX™ Tactical Fiber Optic Connector



The TFOCA GenX™ tactical fiber optic connector provides the ultimate in reliable performance in harsh environments where high cycle mating is of concern. Built on the ubiquitous telecommunications grade 2.5mm ceramic ferrule technology, the design and packaging of these connectors provide a robust connectivity solution resistant to corrosion, shock and thermal shock environments while providing easy field maintenance. Some of the applications currently employing STRAN's TFOCA GenX™ include:

- Deployable military tactical systems
- Outdoor fiber optic networks
- Emergency restoration systems
- Video / data transmission



Fully compatible with legacy product, STRAN Technologies has harmonized the TFOCA GenX™ to ensure alignment with the MIL-PRF-83526/16 & /17 specification anticipated for release in 2Q07. Some of the key features of this connector workhorse:

- Standard hermaphroditic, or genderless, configurations include: 4, 8 and 12 channel
- Meets mechanical interface requirements of MIL-PRF-83526/16 & /17
- Multiple plating options: ZnNi, Black Anodize, Black Anodize Matte, Cadmium, and Passivated Stainless Type 303
- Both singlemode and multimode fiber are compatible in the same connector without part sub-component substitution
- Field maintainable
- Field demountable termini for improved maintainability and repolish
- Captured split alignment sleeves for enhanced Insertion Loss performance
- PC polish
- Qualified to A3302584

MILITARY TACTICAL

MILITARY SHIPBOARD

ENERGY

MINING

AEROSPACE

COMMERCIAL

TFOCA GenX™ Tactical Fiber Optic Connector



MILITARY/TACTICAL

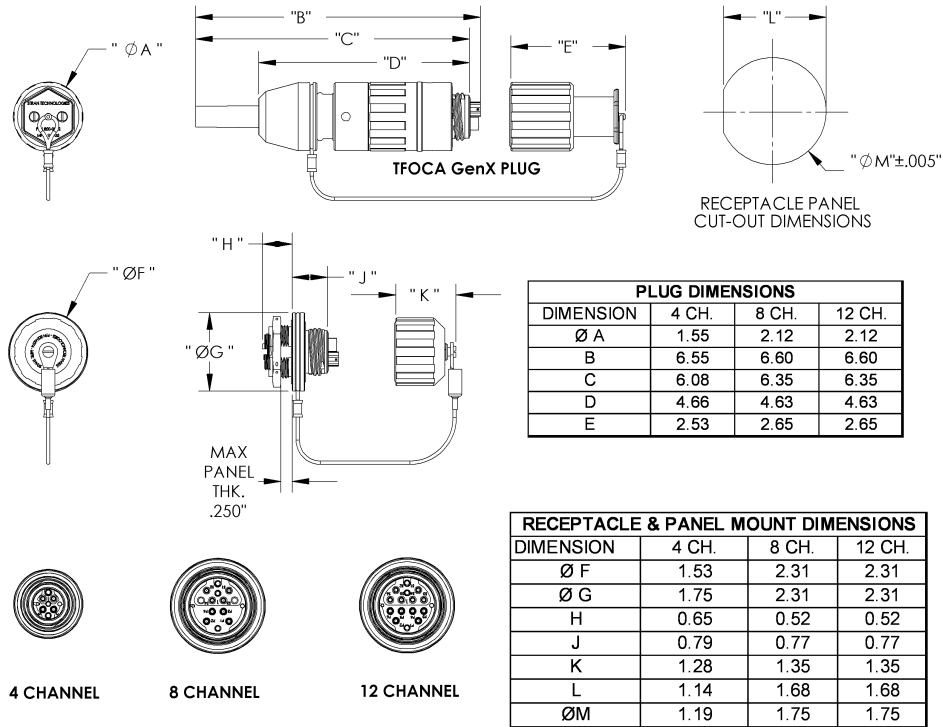
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Connector Performance Criteria:

Optical Insertion Loss	9/125: 0.75 dB _{max} , 0.35 dB _{typ} 62.5/25: 0.75 dB _{max} , 0.14 dB _{typ}
Return Loss	>30 dB MMF, >40 dB SMF with PC polish
Mating Durability	2000 cycles per EIA-455-21
Vibration	10 g's per EIA-455-11
Physical Shock	per EIA-455-14, test condition A
Thermal Shock	-62°C to +85°C per EIA-455-71, cond. B
Temperature Life	250 hours at 85°C per EIA-455-4
Corrosion Resistance	EIA-455-16, test condition C
Humidity	10 cycles per EIA-455-5
Fluid Immersion	1 meter, per EIA-455-12
Crush Resistance	450 lbs, per EIA-455-26
Cable Retention	400 lbs, per EIA-455-6
Cable Seal Flexing	Per EIA-455-1
Impact	EIA-455-2