

MFOCA

Mining Fiber Optic Connector Assembly



MFOCA Receptacle

Based on the TFOCA GenX tactical fiber optic connector, the MFOCA provides the ultimate in reliable performance for harsh environments. It is hermetically sealed to exclude moisture in wet environments and certified for use in hazardous areas. Built on the well proven 2.5 mm ceramic ferrule technology, the design and packaging of these connectors provide a robust connectivity solution resistant to corrosion, mechanical damage and potentially explosive environments, while providing reliable operation and ease of field maintenance.

Some of the applications supported by STRAN's MFOCA include:

- Mining applications
- Conveyor monitoring
- Oil and Gas surface applications
- Wellhead terminations
- Harsh industrial installations

Fully intermateable with STRAN's legacy TFOCA GenX product, the MFOCA incorporates the following features and benefits:

- Standard 4 channel hermaphroditic configuration
- Certified to MSHA, Title 30 CFR, Part 18, MSHA# 18-XPA080005-0
- Non-thermitic bronze external construction, also offered in Stainless 316L and anodized aluminum
- Both singlemode and multimode fibers are compatible in the same connector without part sub-component substitution
- Field maintainable
- Field demountable termini for improved maintainability and repolish
- Split alignment sleeves with anti-expansion capture for enhanced insertion loss performance and reliability
- PC polish
- Hermaphroditic and non-hermaphroditic dust caps
- Multiple keying positions for "error-proofing" multiple connections in low-light conditions
- Custom reels available



MFOCA Plug

MILITARY TACTICAL

MILITARY SHIPBOARD

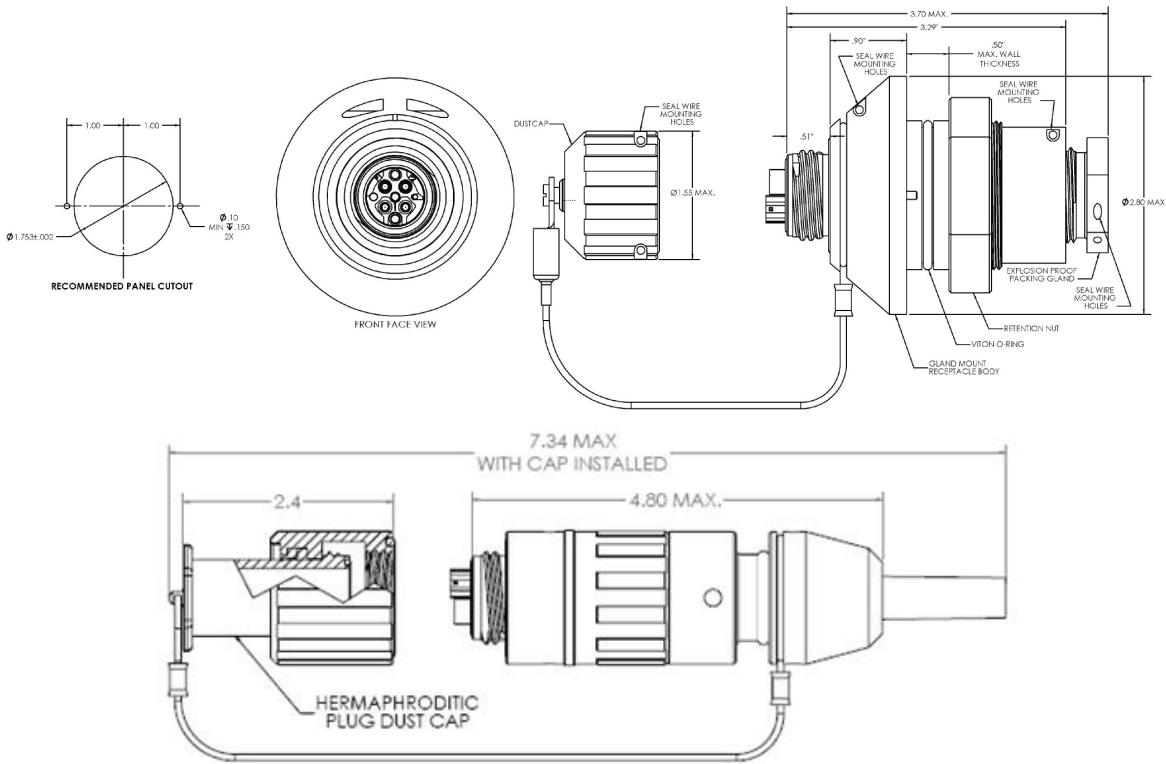
ENERGY

MINING

AEROSPACE

COMMERCIAL

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Connector Performance Criteria:

Optical Insertion Loss	9/125 l'm: 0.75 dB _{max} , 0.35 dB _{typ} 62.5/125 μ m: 0.75 dB _{max} , 0.14 dB _{typ}
Return Loss	>30 dB MMF, >45 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