CORNING

MFOCA

Mining Fiber Optic Connector Assembly

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 Corning's MFOCA include:

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

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 single-mode 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 Mining Fiber Optic Connector Assembly

Technical and Performance Characteristics

Optical Insertion Loss	Single-mode 9/125: 0.75 dBmax, 0.35 dBtyp Multimode 50, 62.5/125: 0.75 dBmax, 0.14 dBtyp
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-455-21
Physical Shock	Per EIA-455-21
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	TIA/EIA-455-2

CORNING

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm
Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2020 Corning Optical Communications. All rights reserved.