

IXF-MMGI-50-125-020-AL

Multimode Fiber

The IXF-MMGI family includes graded-index multimode fibers designed for use in harsh environments with extreme temperatures and/or low to moderate radiation levels. Exail offers a wide range of polymer and metallic coatings well-suited for high-temperature applications.

Aluminum coated fibers offer a wide operating temperature range, from cryogenic temperatures up to +400 °C. They are also hermetic to hydrogen, mitigating hydrogen darkening in hydrogen-rich environments.

The IXF-MMGI-50-125-020-AL fiber is radiation tolerant and can be used under low to moderate radiation levels.



Benefits & Features

- Graded-index 50-125 multimode fiber
- Aluminum coating
- Operating temperature up to +400 °C
- Radiation tolerant for low to moderate radiation levels
- Hermetic to hydrogen and water vapor
- Solderable directly to connectors

Applications

- Distributed Temperature Sensing (DTS)
- Sensing
- Transport fiber

Related Products

- IXF-MMGI-50-250-020-PI
- IXF-SM-1550-125-014-AL
- IXF-RAD-SM-1550-014-AL (Rad-Hard fiber)

Parameters

Attenuation @850 nm (dB/km)	≤ 25
Attenuation @1300 nm (dB/km)	≤ 25
Numerical aperture	0.20 ± 0.02
Core/Clad concentricity (μm)	≤ 1
Cladding diameter (μm)	125 ± 2
Core diameter (μm)	50 ± 2
Coating diameter (μm)	170 ± 10
Proof test level (kpsi)	100

Design parameters

Coating material	Aluminum
Operating temperature range (°C)	-269 to +400
Short term bend radius (mm)	15
Long term bend radius (mm)	30

Aluminum coated fiber



Exail reserves the right to change, at any time and without notice, the specifications, design, function or form of its products described herein.

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