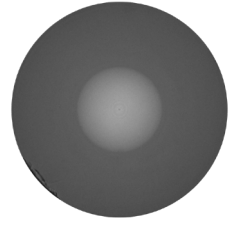


## SPECIALTY OPTICAL FIBER

# 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 | Polyimide coating   |
| • IXF-SM-1550-125-014-AL | SM 1550 nm, NA 0.14 |
| • IXF-SM-1550-125-019-AL | SM 1550 nm, NA 0.19 |
| • IXF-SM-1060-125-014-AL | SM 1060 nm          |
| • IXF-RAD-SM-1550-014-AL | Rad-Hard SM 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



[More information about the 3F2E project](#)

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

contact.photonics@exail.com | www.exail.com  
Europe +33 1 30 08 94 50 | Americas +1 508 745 3487 | APAC +60 11 1623 1698

**exail**