



62.5 PYROCOAT® Graded-Index Optical Fiber

P/N: F91908

Product Overview

This fiber features a 62.5 μm core and a 125 μm silica cladding. The fiber coating is a 155 μm polyimide. 62.5 PYROCOAT fiber is recommended for applications where high bandwidth, operability at 1300 nm and resistance to high temperature is specified. The high NA of this fiber enables excellent optical performance in small radius bend applications. The fiber can use either LED or laser light sources.

Typical Applications

- Distributed Temperature-Sensing
- Extreme Temperature Environments
- Medical

Product Specifications	
Product Description	62.5 PYROCOAT Graded-Index Optical Fiber
Physical Characteristics	
Coating Material	PYROCOAT Polyimide
Core Diameter	62.5 ± 3 µm
Cladding Diameter	125 ± 1 µm
Coating Diameter	155 ± 5 µm
Core/Clad Offset	≤ 3 µm
Core Non-Circularity	≤ 5%
Clad Non-Circularity	≤ 2.0%
Optical Characteristics	
Type	Multimode Graded-Index
Numerical Aperture	0.275
Bandwidth @ 850 nm	≥ 160 MHz-km
Bandwidth @ 1300 nm	≥ 300 MHz-km
Attenuation @ 850 nm	≤ 3.5 dB/km
Attenuation @ 1300 nm	≤ 1.5 dB/km
Mechanical and Environmental	
Operating Temperature	-65 to +300 °C
Short-Term Bend Radius	≥ 10 mm
Long-Term Bend Radius	≥ 17 mm
Proof Test Level	100 kpsi (0.689 GPa)
Order by Part Number	F91908
Product Description Code	TCU-MD062H2
OPTIONS	Cabling, Connectorization, Metalization
NOTE	Lightera polyimide optical fibers are known to operate in environments up to 300 °C. Performance is application dependent. Contact our Technical Sales department to discuss your specific application requirements.
Contact Information	For additional information please contact your sales representative. You can also visit our website at www.lightera.com or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.
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