



100 µm Low OH PYROCOAT® Step-Index Optical Fiber

P/N: CF04406-11

Product Overview

Low OH concentration optimizes these fibers for use in the near-IR wavelengths. Biocompatibility features make these fibers ideal for laser surgery and other medical applications. The all-silica base construction also creates a high damage threshold and high-performance optical properties. High temperature environments require the use of PYROCOAT® polyimide coating.

Typical Applications

- Illumination
- Laser Surgery
- Laser Welding and Cutting
- Radiation Analysis
- Sensors
- Visible to Near-IR Spectroscopy

Product Specifications	
Product Description	100 Low OH PYROCOAT Step-Index
Physical Characteristics	
Core Diameter	100 ± 3 µm
Cladding Diameter	110 ± 3 µm
Coating Diameter	140 ± 5 µm
Coating Concentricity	≥ 80%
Crimp & Cleave Compatible	No
Optical Characteristics	
Type	Multimode Step-Index
Numerical Aperture	0.22
Attenuation @ 850 nm	≤ 12 dB/km
Water Content	Low OH
Mechanical and Environmental	
Operating Temperature	-65 to +300 °C
Short-Term Temperature Excursions	Up to 400 °C
Short-Term Bend Radius	≥ 9 mm
Long-Term Bend Radius	≥ 14 mm
Proof Test Level	≥ 100 kpsi (0.689 GPa)
Order by Part Number	CF04406-11
Product Description Code	TCL-MA100H
OPTIONS	Clad Diameter, Connectorization, Core Diameter, Metalization, Numerical Aperture, Proof Test
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. 1-860-678-6636
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.
Trademark Notice and Disclaimer	Lightera reserves the right to make changes to the product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any Lightera warranties or specifications relating to any of its products or services.