



100 µm PYROCOAT® Step-Index Optical Fiber

P/N: CF04406-01

Product Overview

High OH concentration in these fibers results in efficient power transmission in the wavelength range from high UV through visible light. 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
- Radiation Analysis
- Sensors
- UV Fluorescence
- UV Spectroscopy

Product Specifications	
Product Description	100 μm Step-Index PYROCOAT
Physical Characteristics	
Core Diameter	100 $\pm$ 3 μ m
Cladding Diameter	110 $\pm$ 3 μ m
Coating Diameter	140 $\pm$ 15 μ m
Coating Concentricity	$\geq$ 80%
Crimp & Cleave Compatible	No
Coating Material	PYROCOAT
Optical Characteristics	
Type	Multimode Step-Index
Numerical Aperture	0.22
Attenuation @ 820 nm	$\leq$ 14 dB/km
Water Content	High OH
Mechanical and Environmental	
Operating Temperature	-65 to +300 $^{\circ}$ C
Short-Term Temperature Excursions	Up to 400 $^{\circ}$ C
Short-Term Bend Radius	$\geq$ 9 mm
Long-Term Bend Radius	$\geq$ 14 mm
Proof Test Level	$\geq$ 100 kpsi (0.689 GPa)
Order by Part Number	CF04406-01
Product Description Code	TCG-MA100H
OPTIONS	Clad Diameter, Core Diameter, Connectorization, Numerical Aperture, Metalization, Proof Test
NOTE	Lightera polyimide optical fibers are known to operate in environments up to 300 $^{\circ}$ 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.
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