



ClearLite® POLY 1310 21 NA Optical Fiber

P/N: BF06160-02

Product Overview

Lightera ClearLite POLY 1310 21 single-mode optical fiber is designed to operate efficiently at both 1310 and 1550 nm. The fiber has a nominal NA of 0.21 and a polyimide coating. This fiber is well-suited for harsh environment installations where fiber compression is a concern and where low-loss, small bend-radius coiling and winding performance is desired.

Typical Applications

- High-Temperature Environments
- High-Application-Stress and Tight-Coil Applications
- Oil and Gas Applications

Product Specifications	
Product Description	ClearLite POLY 1310 21 NA Optical Fiber
Physical Characteristics	
Coating Material	PYROCOAT®
Core Diameter (Nominal)	4.6 μ m
Cladding Diameter	125 $\pm$ 2 μ m
Coating/Buffer Diameter	155 $\pm$ 5 μ m
Clad Non-Circularity	$\leq$ 2.0%
Core/Clad Offset	$\leq$ 1.0 μ m
Optical Characteristics	
Type	Single-Mode
Operating Wavelength	1550 nm
Cutoff Wavelength	$\leq$ 1290 nm
Mode Field Diameter @ 1310 nm	5.1 $\pm$ 1.0 μ m
Mode Field Diameter @ 1550 nm	5.8 $\pm$ 1.0 μ m
Attenuation @ 1310 nm	$\leq$ 1.2 dB/km
Attenuation @ 1550 nm	$\leq$ 0.9 dB/km
Numerical Aperture (Nominal)	0.21
Mechanical and Environmental	
Operating Temperature	-65 to +300 °C
Short-Term Bend Radius	$\geq$ 10 mm
Long-Term Bend Radius	$\geq$ 17 mm
Proof Test Level	$\geq$ 100 kpsi (0.689 GPa)
Order by Part Number	BF06160-02
Product Description Code	SMB-G1310H
OPTIONS	Buffer Color, Buffer Material, Buffer Size, Cutoff Wavelength, Metalization, Proof Test, Termination
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.
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