



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 μm
Cladding Diameter	125 $\pm$ 2 μm
Coating/Buffer Diameter	155 $\pm$ 5 μm
Clad Non-Circularity	$\leq$ 2.0%
Core/Clad Offset	$\leq$ 1.0 μm
Optical Characteristics	
Type	Single-Mode
Operating Wavelength	1550 nm
Cutoff Wavelength	$\leq$ 1290 nm
Mode Field Diameter @ 1310 nm	5.1 $\pm$ 1.0 μm
Mode Field Diameter @ 1550 nm	5.8 $\pm$ 1.0 μm
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.
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.