



TruePhase® 1310 Bend Insensitive Polarization-Maintaining Optical Fiber

P/N: F11358

Product Overview

The TruePhase 1310 Bend Insensitive Polarization-Maintaining Optical Fiber is optimized for operation at 1310 nm. It is designed with a higher NA to allow for improved bend performance, a critical fiber parameter in sensor applications where fiber is wound on small diameter coils. This design also offers a shorter beat length for increased birefringence and better crosstalk over longer lengths. The fiber coating is a dual UV acrylate with a diameter of 250 μm . The fiber is proof tested to 200 kpsi.

Product Specifications

Product Description	TruePhase 1310 250 Optical Fiber
Physical Characteristics	
Coating Material	Dual UV Acrylate
Cladding Diameter	125 $\pm$ 1.0 μm
Coating/Buffer Diameter	250 $\pm$ 10 μm
Clad Non-Circularity	$\leq$ 2%
Core/Clad Offset	$\leq$ 0.5 μm
Optical Characteristics	
Type	Polarization-Maintaining
Operating Wavelength	1310 nm
Fiber Cutoff Wavelength	$\leq$ 1290 nm
Mode Field Diameter @ 1310 nm	5.5 $\pm$ 0.5 μm
Attenuation @ 1310 nm	$\leq$ 1.5 dB/km
Beat Length @ 1310 nm	$\leq$ 3.0 mm
Crosstalk @ 1310 nm/100 m	$\leq$ -30 dB
Crosstalk (Typical) @ 1310 nm/100 m	$\leq$ -35 dB
Numerical Aperture (Nominal)	0.20
Mechanical and Environmental	
Operating Temperature	-40 to +85 $^{\circ}\text{C}$
Proof Test Level	$\geq$ 200 kpsi (1.38 GPa)
Order by Part Number	F11358
OPTIONS	Cabling, Coating Material and Dimensions, Metalization, Optical Properties, Proof Test

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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