

Polarization-Maintaining Fiber: Panda Style



Description

PM1550-HP

Thorlabs' polarization-maintaining fibers, designed for use from 1440 to 1625 nm, are optimized for data and telecoms applications where ultra-low attenuation over long distances, resistance to radiation-induced damage, and color center formation are critical.

Specifications

Geometrical & Mechanical		
Core Diameter	8.5 μm	
Cladding Diameter	125 ± 2 μm	
Coating Diameter	245 ± 15 μm	
Core-Clad Offset	<0.5 μm	
Coating Concentricity	≤5 μm	
Coating Material	UV Cured, Dual Acrylate	
Operating Temperature	-40 to 85 °C	
Proof Test Level	200 kpsi (1.4 GN/m²)	



Optical	
Numerical Aperture	0.13
Attenuation	<1 dB/km @ 1550 nm
Operating Wavelength	1440 - 1625 nm
Second Mode Cut-off	1370 ± 70 nm
Mode Field Diameter (1/e² fit - near field)	10.5 ± 0.8 μm @ 1550 nm
Beat Length	≤5 mm @ 1550 nm
Normalized Cross Talk	≤-40 dB @ 4 m ≤-30 dB @ 100 m (nominal)

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