



**980HP**

### Description

Thorlabs' high-performance fibers were developed for applications such as RGB components requiring generation of couplers, diode pigtails and unique delivery needs. These fibers feature greater proof test levels and a tighter second mode cutoff tolerance than standard fibers, resulting in higher strength, increased component reliability, better production yields and reduced costs for component manufacturers.

### Specifications

Geometrical & Mechanical	
Cladding Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core Diameter	3.6 μm
Core-Clad Concentricity	<0.5 μm
Coating Concentricity	≤5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-55 to 85 °C
Proof Test Level	200 kpsi (1.4 GN/m <sup>2</sup> )



Optical	
Numerical Aperture (nominal)	0.20
Core Attenuation	≤3.5 dB/km @ 980 nm
Operating Wavelength	980 - 1600 nm
Second Mode Cut-off	920 ± 30 nm
Mode Field Diameter (1/e <sup>2</sup> fit - near field)	4.2 ± 0.5 μm @ 980 nm 6.8 ± 0.5 μm @ 1550 nm
Bend Loss for 100 turns @ LTBR (nominal)	<0.001 dB @ 980 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	Much less than LTBR @ 980 nm 15 mm @ 1550 nm

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