



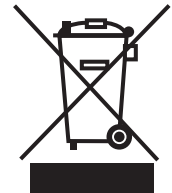
### Description

**S630-HP**

Thorlabs' pure silica core, high-performance fibers were designed for applications that require low attenuations and higher resistance to radiation and color center formation compared to germanium-doped fibers. These fibers are suitable for applications such as RGB components requiring couplers, and diode pigtailed.

### Specifications

Geometrical & Mechanical	
Cladding Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core Diameter	3.5 μm
Core-Clad Concentricity	<0.5 μm
Coating / Clad Offset	≤5 μm
Coating Material	UV Cured, Dual Acrylate
Core Type	Pure Silica
Operating Temperature	-55 to 85 °C
Short-Term Bend Radius	≥6 mm
Long-Term Bend Radius	≥13 mm
Proof Test Level (1.4 GN/m <sup>2</sup> )	200 kpsi (2%)



Optical	
Numerical Aperture (nominal)	0.12
Attenuation	≤10 dB/km @ 630 nm
Operating Wavelength	630 - 860 nm
Second Mode Cut-Off	590 ± 30 nm
Mode Field Diameter (1/e <sup>2</sup> fit - near field)	4.2 ± 0.5 μm @ 630 nm

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