

S405-XP



Description

Thorlabs' pure silica core, high-performance fibers were designed for applications that require low attenuation 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	
Core Diameter	3.0 μm
Cladding Diameter	125.0 $\pm$ 1.0 μm
Coating Diameter	245.0 $\pm$ 15.0 μm
Core-Clad Concentricity	$\leq$ 0.60 μm
Coating-Clad Offset	$<$ 5.0 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-60 to 85 $^{\circ}$ C
Short-Term Bend Radius	$\geq$ 6 mm
Long-Term Bend Radius	$\geq$ 13 mm
Proof Test Level	$\geq$ 200 kpsi (1.4 GN/m ^{2})



Optical	
Numerical Aperture (nominal)	0.12
Attenuation	$\leq$ 30.0 dB/km @ 630 nm $\leq$ 30.0 dB/km @ 488 nm
Operating Wavelength	400 - 680 nm
Second Mode Cut-off	380 $\pm$ 20 nm
Mode Field Diameter (nominal) (1/e ^{2} fit - near field)	3.3 $\pm$ 0.5 μm @ 405 nm 4.6 $\pm$ 0.5 μm @ 630 nm