

Ultra-High NA SM Fiber

T-UHNA7

Description

This ultra-high NA single mode optical fiber provides excellent coupling efficiency to high NA waveguides and standard silica fibers. This range of fiber offers up to 0.41 NA.

Specifications

Geometrical & Mechanical	
Clad Diameter	125 ± 1.0 μm
Coating Diameter	250 ± 20 μm
Core Diameter	2.4 μm
Coating Concentricity	<5.0 μm
Core-Clad Offset	≤0.5 μm
Core Material	Ge-Doped Silica
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-55 to 85 °C
Short-Term Bend Radius	≥12 mm
Long-Term Bend Radius	≥25 mm
Proof Test Level	≥100 kpsi (0.7 GN/m ²)

Optical	
Numerical Aperture (nominal)	0.41
Operating Wavelength (nominal)	1500 - 2000 nm
Mode Field Diameter	3.2 ± 0.3 μm @ 1550 nm
Second Mode Cutoff	1450 ± 50 nm
Typical Attenuation @ 1550 nm	<20 dB/km
Bend Loss @ 1550 nm (100 Turns, 25 mm Radius)	<0.001 dB

