Ultra High NA SM Fiber

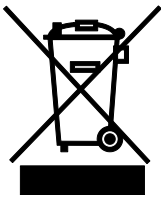
T-UHNA4

Description

Ultra-high NA fluoride optical fiber provides excellent coupling efficiency to high NA waveguides and standard silica fibers. This range of fibers offers up to 0.35 NA.

Specifications

Geometrical & Mechanical	
Clad Diameter	125 ± 1.0 µm
Coating Diameter	250 ± 20 µm
Core Diameter	2.2 µm
Coating Concentricity	<5.0 µm
Core-Clad Offset	≤0.5 µm
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)	0.35
Operating Wavelength (nominal)	1100 – 1600 nm
Mode Field Diameter	2.6 ± 0.3 µm @ 1100 nm 3.3 ± 0.3 µm @ 1310 nm 4.0 ± 0.3 µm @ 1550 nm
Second Mode Cutoff	1050 ± 50 nm
Bend Loss @ 1100 nm (100 Turns, 25 mm Radius)	<0.001 dB
Bend Radius for 0.05 dB per 100 Turns @ 1100 nm	Much less than LTBR