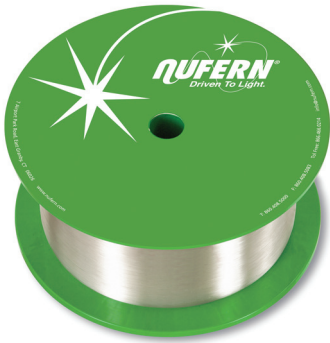


980/1060 nm Select Cutoff Single-Mode Fiber



Nufern's 1060-XP select cutoff single-mode fibers are optimized for use by component manufacturers in the telecommunications wavelengths. These application-specific fibers were developed for pump diode pigtails, unique delivery for components and couplers. They offer exceptional uniformity and core/clad concentricity specifications, very tight second mode cut off tolerances, and tighter bend radius for applications in optical packages. These extra high-performance specifications result in superior strength, increased component reliability, improved production yields and reduced component manufacturer costs.

Typical Applications

- Pump Diode Pigtails
- 980/1550 nm WDM Couplers
- Single Clad Yb-fiber pigtails

Features & Benefits

- Exceptional uniformity and core/clad concentricity — Low, consistent splice loss to telecom components
- Extremely tight second mode cutoff tolerance — High yield coupler manufacturing
- Higher proof test levels — Critical for long-term reliability in tight bend applications

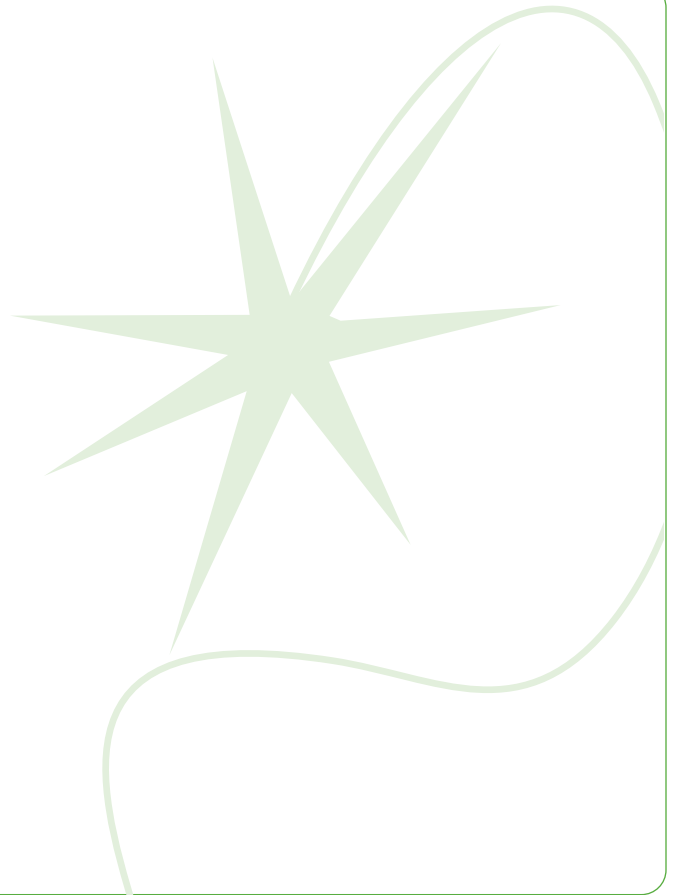
Optical Specifications

Operating Wavelength (nominal)	980–1600 nm
Mode Field Diameter	5.9 ± 0.5 μm @ 980 nm
Mode Field Diameter	6.2 ± 0.5 μm @ 1060 nm
Mode Field Diameter	9.5 ± 0.5 μm @ 1550 nm
Second Mode Cutoff	920 ± 30 nm
Attenuation	≤ 2.1 dB/km @ 980 nm
Attenuation	≤ 1.5 dB/km @ 1060 nm
Numerical Aperture (nominal)	0.14
Bend Loss for 100 turns @ 13 mm radius (nominal)	< 0.001 dB @ 1060 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	13 mm @ 1060 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	57 mm @ 1550 nm

Geometrical & Mechanical Specifications

Clad Diameter	125.0 ± 0.5 μm
Coating Diameter	245 ± 10 μm
Core-Clad Concentricity	< 0.3 μm
Coating/Clad Offset	≤ 5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 55 to + 85°C
Short-Term Bend Radius	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m ²)

1060-XP



7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com

Standard specifications and design parameters are listed above. Specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.

