

# 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 pigtailed, 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 Pigtailed
- 980/1550 nm WDM Couplers
- Single Clad Yb-fiber pigtailed

## 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

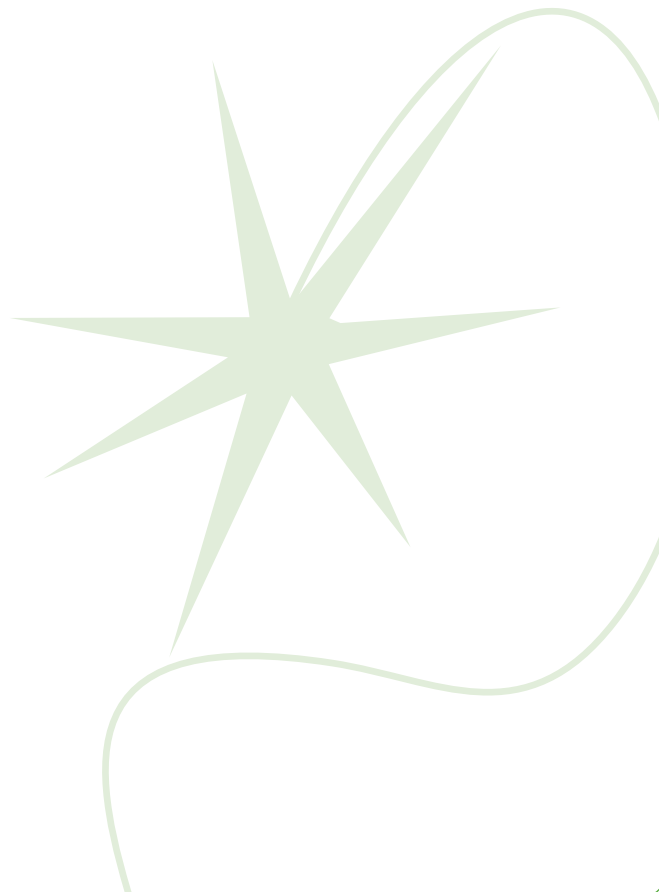
## Optical Specifications

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 radii (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 <sup>2</sup> )

## 1060-XP



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