

980/1060 nm Select Cutoff Single-Mode Fiber



Nufern's 1060-XP select cutoff single-mode fiber is optimized for use by component manufacturers in the telecommunications wavelengths. This application-specific fiber was developed for pump diode pigtailed, unique delivery for components and couplers. 1060-XP offers 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	980 – 1600 nm
Core NA	0.140
Mode Field Diameter	5.9 ± 0.5 μm @ 980 nm 6.2 ± 0.5 μm @ 1060 nm 9.5 ± 0.5 μm @ 1550 nm
Cutoff	920 ± 30 nm
Core Attenuation	≤ 1.5 dB/km @ 1060 nm ≤ 2.1 dB/km @ 980 nm

1060-XP

Geometrical & Mechanical Specifications

Cladding Diameter	125.0 ± 0.5 μm
Core Diameter	5.8 μm
Coating Diameter	245.0 ± 10.0 μm
Coating Concentricity	< 5.0 μm
Core/Clad Offset	≤ 0.30 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature Range	-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)



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 Nufern products are manufactured under an ISO 9001:2008 certified quality management system.



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.