

Corning® PureMode™ HI 980 Photonic Fiber

For High Performance

EDFA Components and Assemblies



CORNING
Discovering Beyond Imagination

Photonic
Technologies

Manufactured with Corning's patented outside vapor deposition process, PureMode HI 980 Photonic Fiber offers world-class durability and reliability. When used as component pigtails, this fiber allows for efficient fiber coupling within photonic products. It also offers reduced bend attenuation due to its high core index of refraction.

Applications

- Single-mode performance at 980 nm or above
- Component fiber for EDFAs, couplers, other DWDM components
- Pigtails for pump laser diodes

Features

- Patented outside vapor deposition process provides outstanding consistency and uniformity
- Dual acrylate coating system provides excellent protection from microbend-induced attenuation
- Excellent geometry control
- High core index of refraction
- Mode-field diameter matched to erbium-doped fiber, allowing for efficient coupling within an EDFA
- High proof test for increased reliability in tight bend configurations
- High numerical aperture

Key Optical Specifications

Maximum Attenuation	≤ 2.5 dB/km @ 980 nm
Cutoff Wavelength	930 nm ± 50 nm
Mode-field Diameter	4.2 μm ± 0.3 μm @ 980 nm

Key Geometric Specifications

Cladding Outside Diameter	125 μm ± 0.5 μm
Coating Outside Diameter	245 μm ± 10 μm
Core-to-cladding Offset	≤ 0.3 μm

Performance Characterizations

Typical Bend Loss @ 1550 nm*	≤ 0.1 dB
Operating Temperature	-60°C to 85°C
Nominal Delta	1.0%
Numerical Aperture (Typical)	0.20
Standard Lengths	1, 2, 5 km
Proof Test	200 kpsi

* 5 turns at 10 mm radius

For More Information

For more information about Corning Photonic Technologies' leadership in photonic fiber technology and other optical networking modules and components, visit our website at www.corning.com/photonictechnologies.

To obtain additional technical information or to place an order for this product, please contact us:

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