

# Corning® PureMode™ HI 1060 FLEX Photonic Fiber

## Ultra-low Bending Loss in C- and L-Bands



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Discovering Beyond Imagination

Photonic  
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*Manufactured with Corning's patented outside vapor deposition process, PureMode HI 1060 FLEX Photonic Fiber sets the worldwide standard for uniformity and reliability. Completely re-engineered for fused biconic taper component manufacturing, this photonic fiber is ideal for use in smaller footprint components and EDFAs. Combining ultra-low bending loss, low insertion loss, and excellent spliceability, PureMode HI 1060 FLEX Photonic Fiber enables higher yields and performance throughout the value chain.*

### Applications

- Premium grade WDM couplers for EDFAs
- Tap couplers
- Splitters and combiners
- CATV couplers
- Ultra-compact components requiring small bend radii
- Pigtails in bend-sensitive applications
- Low loss fused devices for C- and L-Band

### Features

- Ultra-low bending loss
- Low excess loss
- Low splice loss to SMF-28® fiber and PureMode Er 1550C3
- Patented outside vapor deposition process provides outstanding consistency and uniformity
- Dual acrylate coating system provides superior mechanical robustness
- Excellent geometry control

## Key Optical Specifications

Maximum Attenuation	≤ 2.5 dB/km @ 980 nm ≤ 1.0 dB/km @ 1550 nm
Cutoff Wavelength	930 ± 40 nm
Mode-field Diameter	4.0 ± 0.3 μm @ 980 nm 6.3 ± 0.3 μm @ 1550 nm
Bend Loss @ 1550 nm	≤ 0.1 dB 5 turns at 10-mm radius

## Key Geometric Specifications

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

## Performance Characteristics

Excess Loss in Device (Typical)	≤ 0.1 dB
Operating Temperature	-60 to 85°C
Nominal Delta (Typical)	1 %
Numerical Aperture (Typical)	0.2
Standard Lengths	0.5, 1, 2, 5 km
Proof Test	100, 200 kpsi

## Typical Splice Loss

	HI 1060 FLEX	SMF-28® Fiber	HI 980	HI 1060	PM 980	Er 1550C	Er 1550C3
HI 1060 FLEX	0.03 dB	0.07 dB	0.04 dB	0.06 dB	0.09 dB	0.05 dB	0.03 dB

## 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](http://www.corning.com/photonictechnologies).

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

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