

CORNING

Corning® ClearCurve® Photonic Specialty Optical Fibers

*Bendable,
spliceable,
reliable and
coupler
optimized*

Specially designed to meet the growing demands for smaller footprints, Corning Introduces the NEW ClearCurve® Photonic Specialty Optical Fiber. This fiber was designed using Corning's patented ClearCurve® technology to give ultra low bend loss performance. Created with tighter geometrical and mechanical specifications, this fiber enables consistent, reliable and low loss splicing. ClearCurve® Photonic Fiber was developed with an optical profile ideal for making couplers.

Corning® ClearCurve® Photonic Specialty Optical Fiber is optimized for use in Photonic Components, paving the way for you to reliably and consistently enable information to go faster, further and "smarter" in a smaller space.



Satisfying the need of Photonic component manufacturers for a single fiber optimized to provide low bend loss, tight geometrical control, high mechanical reliability and good coupler performance.

Applications:

- Designed specifically for photonic components in small package sizes
- Very tight bend requirements

Features:

- 10 mm bend radius
- Low bend loss
- Tighter geometrical control
- High reliability enhanced by 200 kpsi
- FBT coupler friendly

ClearCurve® Photonic

Key Optical Specifications

Operating Wavelength (nm)	1550
Cutoff Wavelength (nm)	≤ 1450
Maximum Attenuation (dB/km)	0.3 @ 1550 nm
Mode-field Diameter (μm)	9.65 ± 0.5 @ 1550 nm

Key Geometric, Mechanical and Environmental Specifications

Cladding Outside Diameter (μm)	125 ± 0.5
Coating Outside Diameter (μm)	245 ± 10
Core-to-Cladding Concentricity (μm)	≤ 0.3
Standard Lengths	500 m, 1 km, 2 km, 5 km, 10 km
Proof Test (kpsi)	200
Operating Temperature (°C)	-60 to 85
Coating	Dual Coat Acrylate (Optional Hermetic Layer)
Recommended Minimum Bending Radius (mm)	10

Performance Characteristics (values in this table are nominal or calculated)

Nominal Delta/Profile (%)	0.51
Numerical Aperture	0.15
Refractive Index Value – Core	1.464 @ 651 nm
Dispersion (ps/nm/km)	18.2 @ 1550 nm
Core Diameter (μm)	9.4

For more information about Corning's leadership in Specialty Fiber technology visit our website at www.corning.com/specialtyfiber

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

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