

# Corning® ClearCurve® Photonic Specialty Optical Fibers

CORNING



*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

## Key Optical Specifications

Operating Wavelength (nm)	1550
Fiber 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
Lengths	Sold by the meter (500 m minimum)
Proof Test (kpsi)	200
Operating Temperature (°C)	-60 to +85
Coating	Dual Coat Acrylate
Recommended Minimum Bending Radius (mm)	10

## Performance Characterizations\*

Nominal Delta (%)	0.40
Numerical Aperture	0.13
Refractive Index Value – Core	1.458 @ 850 nm
Dispersion (ps/nm/km)	17.8 @ 1550
Core Diameter (μm)	8.8

\* Values in this table are nominal or calculated values

For more information about Corning's leadership in Specialty Fiber technology, visit our website at [www.corning.com/specialtyfiber](http://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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