

Corning® HI 1060 & RC HI 1060 Specialty Optical Fibers

High Index / Bend Insensitive

CORNING



*Industry standard
for 1060 pump
pigtailed for high
performance
components and
small footprint
assemblies*

*Manufactured with
Corning's patented
Outside Vapor
Deposition (OVD)
process, Corning® HI
1060 Specialty Fiber
offers world-class
durability and reliability.
When used as
component pigtailed, this
fiber allows for efficient
fiber coupling within
photonic products.*

Applications:

HI 1060

- Photonic products and fused fiber couplers
- Component fiber for EDFAs, couplers, and other DWDM components
- Laser Diode
- Gratings

RC HI 1060

- Component fiber for EDFAs, couplers, and other DWDM components
- Pigtails for pump lasers

Features:

HI 1060 and RC HI 1060

- Outstanding consistency and uniformity using Corning's patented Outside Vapor Deposition (OVD) process
- Dual acrylate coating system provides excellent protection from microend-induced attenuation and superior mechanical robustness
- Excellent geometry control
- High core index of refraction
- Efficient coupling
- High numerical aperture
- RC HI 1060 offers 80 μm diameter for sub-miniature packaging

Key Optical Specifications

HI 1060 and RC HI 1060

Operating Wavelength (nm)	> 980
Fiber Cutoff Wavelength (nm)	920 ± 50
Maximum Attenuation (dB/km)	2.1 @ 980 nm 1.5 @ 1060 nm
Mode-field Diameter (μm)	5.9 ± 0.3 @ 980 nm 6.2 ± 0.3 @ 1060 nm

Key Geometric, Mechanical, and Environmental Specifications

	HI 1060	RC HI 1060
Cladding Outside Diameter (μm)	125 ± 0.5	80 ± 1
Coating Outside Diameter (μm)	245 ± 10	165 ± 10
Core-to-Cladding Concentricity (μm)	≤ 0.3	≤ 0.5
Standard Lengths	500 m, 1 km, 2 km, 5 km, 10 km*	
Proof Test (kpsi)	100 or 200	
Operating Temperature (°C)	-60 to +85	

*10 km lengths only available for HI 1060

Performance Characterizations**

Nominal Delta (%)	0.48
Numerical Aperture	0.14
Refractive Index Value – Core	1.459 @ 850 nm
Core Diameter (μm)	5.3
Dispersion (ps/nm/km)	-53 @ 980 nm -38 @ 1060 nm

** Values in this table are nominal or calculated values

Typical Splice

	HI 1060	RC PANDA PM 980	SMF-28e+®	RC SMF Fiber
Wavelength (nm)	1550	980	1550	1550
HI 1060 FLEX (dB)	0.04	0.07	0.16	0.08

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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