Corning® HI 1060 & RC HI 1060 Specialty Optical Fibers

High Index / Bend Insensitive

CORNING

Industry standard for 980 pump pigtails 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 pigtails, 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 pigtails
- 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 microbend-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 miniature packaging

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	HI 1060	RC HI 1060
Key Optical Specifications		
Operating Wavelength (nm)	> 980	
Maximum Attenuation (dB/km)	2.1 @ 980 nm 1.5 @ 1060 nm	
Cutoff Wavelength (nm)	920 ± 50	
Mode-field Diameter (µm)	5.9 ± 0.3 @ 980 nm 6.2 ± 0.3 @ 1060 nm	
Key Geometric, Mechanical and Environmental Specifications		
Cladding Outside Diameter (µm)	125 ± 0.5	80 ± 1
Coating Outside Diameter (µm)	245 ± 10	165 ± 10
Core-to-Cladding Offset (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	1.464 @ 651 nm
Dispersion (ps/nm/km)	-53 @ 980 nm -38 @ 1060 nm
Core Diameter (µm)	5.3

** Values in this table are nominal or calculated values

Typical Splice Loss

	HI 1060	RC PANDA PM 980	SMF-28e+ Fiber	RC SMF Fiber
Wavelength (nm)	1550	980	1550	1550
RC HI 1060 (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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