Corning® HI 1060 & RC HI 1060 Specialty Optical Fibers

High Index / Bend Insensitive

CORNING

Industry standard for 1060 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
- 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 numberical aperture
- RC HI 1060 offers 80 µm diameter for sub-miniture packaging

M0100008
Issued: June 2018
Supersedes: April 2016

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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M0100008
Issued: June 2018
Supersedes: April 2016