

Corning® HI 1060 & RC HI 1060 Specialty Optical Fibers

High Index/Low-Cutoff Fibers for Fiber Bragg Grating (FBG) and Pigtailed



Industry standard for 980 nm and 1060 nm 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	
Photonic products and fused fiber couplers	Laser Diode
Component fiber for EDFAs, FBGs and other WDM components	Gratings
Pigtails for pump lasers	

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

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
Minimum order quantity (m)	500	
Proof Test (kpsi)	100 or 200	
Operating Temperature (°C)	-60 to +85	

Performance Characterizations*	HI 1060 and RC HI 1060
Nominal Delta (%)	0.48 @ 850 nm
Numerical Aperture	0.14 @ 850 nm
Refractive Index Value – Core	1.459 @ 850 nm
Core Diameter (μm)	5.0
Dispersion (ps/nm/km)	-54 @ 980 nm -39 @ 1060 nm

*Values in this table are nominal or calculated values

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