

Corning® HI 1060 FLEX & RC HI 1060 FLEX Specialty Optical Fibers

High Index/Low-Cutoff Fibers for Couplers and Pigtails



High performance WDM components and ultra-low bend loss applications

Manufactured with Corning’s patented outside vapor deposition (OVD) process, Corning® HI 1060 FLEX and RC HI 1060 FLEX specialty fiber sets the worldwide standard for uniformity, manufacturing consistency and reliability. Completely re-engineered for fused biconic taper component manufacturing, this specialty fiber is ideal for use in smaller footprint components and EDFAs. Combining ultra-low bending loss, low insertion loss, and excellent spliceability, Corning HI 1060 FLEX specialty fiber enables higher yields and performance throughout the value chain.

Applications	
Pigtails for bend-insensitive applications	CATV couplers
Premium-grade WDM couplers for EDFAs	Ultra-compact components requiring small bend radii
Tap couplers	Low loss fused devices for C-Band and L-Band
Splitters and combiners	

Features	
Outstanding consistency and uniformity using our patented OVD process	Low splice loss to Corning® SMF-28e+® fiber and erbium fiber
Dual acrylate coating system provides excellent protection from microend-induced attenuation and superior mechanical robustness	Excellent geometry control
Ultra-low bending loss	RC HI 1060 FLEX offers 80 µm diameter for subminiature packaging, reduced size, increased densification and high reliability
Low excess loss	

Key Optical Specifications	HI 1060 FLEX and RC HI 1060 FLEX
Operating Wavelength (nm)	≥ 980
Fiber Cutoff Wavelength (nm)	930 ± 40
Maximum Attenuation (dB/km)	≤ 2.5 @ 980 nm ≤ 1.0 @ 1550 nm
Mode-Field Diameter (μm)	4.0 ± 0.3 @ 980 nm 6.3 ± 0.3 @ 1550 nm

Key Geometric, Mechanical, and Environmental Specifications	HI 1060 FLEX	RC HI 1060 FLEX
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 FLEX and RC HI 1060 FLEX
Nominal Delta (%)	1.01 @ 850 nm
Numerical Aperture	0.21 @ 850 nm
Refractive Index Value – Core	1.467 @ 850 nm
Core Diameter (μm)	3.5
Dispersion (ps/nm/km)	-62 @ 980 nm -47 @ 1060 nm

*Values in this table are nominal or calculated values

Typical Splice	HI 1060 FLEX	Corning® SMF-28e+®	RC SMF	HI 1060	HI 980	PM 980
Wavelength (nm)	1550	1550	1550	980	980	980
HI 1060 FLEX (dB)	0.03	0.09	–	0.06	0.04	0.09
RC HI 1060 FLEX (dB)	–	0.22	0.12	–	–	–

For more information about Corning's leadership in specialty fiber technology, visit our website at [corning.com/specialtyfiber](https://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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