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

High Index / Bend Insensitive

CORNING

High performance WDM components and ultra-low bend loss applications

Manufactured with Corning's patented Outside Vapor Deposition (OVD) process, Corning® HI 1060 FLEX Specialty Fiber sets the worldwide standard for uniformity 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
- Premium grade WDM couplers for EDFAs
- Tao couplers
- Splitters and combiners
- CATV couplers
- Ultra-compact components requiring small bend radii
- Low loss fused devices for C-Band and L-Band

Features:

HI 1060 FLEX and RC HI 1060 FLEX

- 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
- Ultra-low bending loss
- Low excess loss
- Low splice loss to SMF-28e+® fiber and Corning ER 1550C3
- Excellent geometry control
- RC HI 1060 FLEX offers 80 µm diameter for sub-miniture packaging

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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
Standard Lengths	500 m, 1 km, 2 km, 5 km, 10 km	
Proof Test (kpsi)	100 or 200	
Operating Temperature (°C)	-60 to +85	

Performance Characterizations*

Nominal Delta (%)	1.06
Numerical Aperture	0.21
Refractive Index Value – Core	1.468 @ 850 nm
Core Diameter (µm)	3.4
Dispersion (ps/nm/km)	-65 @ 980 nm -50 @ 1060 nm

* Values in this table are nominal or calculated values

Typical Splice

	HI 1060 FLEX	SMF-28e+®	RC SMF	ER 1550C3	HI 1060	HI 980	PM 980
Wavelength (nm)	1550	1550	1550	1550	980	980	980
HI 1060 FLEX (dB)	0.03	0.07	---	0.03	0.06	0.04	0.09
RC HI 1060 FLEX (dB)	---	0.22	0.12	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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