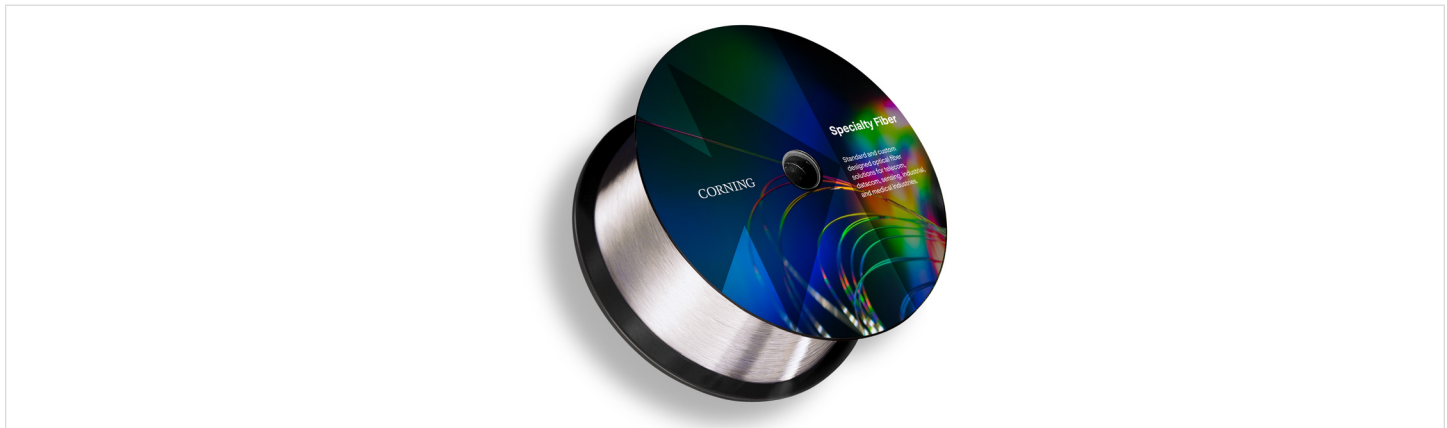


# Corning® HI 980 & RC HI 980 Specialty Optical Fibers

High Index / Bend Insensitive



## Industry standard for 980 nm pump pigtails for high performance components and small footprint assemblies

Manufactured with Corning’s patented Outside Vapor Deposition (OVD) process, Corning® HI 980 Specialty Fiber offers world-class durability and reliability. When used as component pigtails, this fiber allows for efficient fiber coupling within photonic products. HI 980 also offers reduced bend attenuation due to its high core index of refraction.

Applications	
HI 980	RC HI 980
Single-mode performance at 980 nm and above	Component fiber for EDFAs, couplers, and other DWDM components
Component fiber for EDFAs, couplers, and other DWDM components	Pigtails for pump lasers
Pigtails for pump lasers	
Gratings	

Features	
Outstanding consistency and uniformity using Corning’s patented Outside Vapor Deposition (OVD) process	Mode-field diameter matched to erbium-doped fiber, allowing efficient coupling
Dual acrylate coating system provides excellent protection from micro-induced attenuation and superior mechanical robustness	High proof test for increased reliability in tight bend configurations
Excellent geometry control	High numerical aperture
High core index of refraction	RC HI 980 provides 80 μm diameter for miniature packaging

Key Optical Specifications	HI 980 and RC HI 980
Operating Wavelength (nm)	≥ 980
Fiber Cutoff Wavelength (nm)	930 ± 50
Maximum Attenuation (dB/km)	2.5 @ 980 nm
Mode-field Diameter (μm)	4.2 ± 0.3 @ 980 nm

Key Geometric, Mechanical, and Environmental Specifications	HI 980	RC HI 980
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)	200	100 or 200
Operating Temperature (°C)	-60 to +85	
Coating Type	Dual UV Curable Acrylate	

Performance Characterizations*	HI 980 and RC HI 980
Nominal Delta (%)	1.0
Numerical Aperture	0.21
Refractive-Index Value – Core	1.467 @ 850 nm
Core Diameter (μm)	3.4
Dispersion (ps/nm•km)	-64 @ 980 nm

\*Values in this table are nominal or calculated values

Typical Splice Loss	RC SMF Fiber	HI 980
Wavelength (nm)	1550	980
RC HI 980 (dB)	0.11	0.05

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: **E-mail: [specialtyfiber@corning.com](mailto:specialtyfiber@corning.com)**

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