Corning® HI 980 & RC HI 980 Specialty Optical Fibers

High Index / Bend Insensitive

CORNING

Industry standard for 980 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

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

RC HI 980

- Component fiber for EDFAs, couplers, and other DWDM components
- Pigtails for pump lasers

Features:

HI 980 and RC HI 980

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

M0100007
Issued: June 2018
Supersedes: April 2016

Key Optical Specifications

	HI 980 and RC HI 980C
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 980C
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)	200	100 or 200
Operating Temperature (°C)	-60 to +85	

Performance Characterizations*

Nominal Delta (%)	1.0
Numerical Aperture	0.21
Refractive Index Value – Core	1.471 @ 850 nm
Core Diameter (µm)	3.4
Dispersion (ps/nm/km)	-64 @ 980 nm

*Values in this table are nomial 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 www.corning.com/specialtyfiber
To obtain additional technical information, an engineering sample or to place an order for this product, please contact us at:

Corning Incorporated

Tel: +1-607-974-9974
Fax: +1-607-974-4122
E-mail: specialtyfiber@corning.com

M0100007
Issued: June 2018
Supersedes: April 2016