

CORNING

Corning® HICER 98 Specialty Optical Fibers *High Index Coupler Fiber*

HICER 98
Splice-Optimized
Coupler fiber

A new addition to the *Corning® FBT* coupler optimized fiber family; *HICER 98* is the ideal fiber for applications where a single splice recipe is required. Designed for splicing flexibility to industry standard Erbium and single-mode fibers, *HICER 98* benefits from Corning's Outside Vapor Deposition (OVD) process consistency, allowing for large quantities of fiber with identical composition which minimizes coupler tuning time.

Applications:

- Couplers and Optical Components
- WDM Couplers
- CATV Couplers
- Splitters and Combiners

Features:

- Splice Optimized to Industry Standard Erbium and Single-mode Fibers
- Versatile Splicing with a Single Splice Recipe
- No New Splice Recipe Required
- Outstanding Consistency and Uniformity Using Corning's Patented Outside Vapor Deposition (OVD) Process
- Dual Acrylate Coating System Provides Excellent Protection from Microbend Induced Attenuation and Superior Mechanical Robustness



HICER 98

Key Optical Specifications

Operating Wavelength (nm)	980, 1550
Cutoff Wavelength (nm)	≤ 960
Maximum Attenuation (dB/km)	≤ 2.5 @ 980 nm ≤ 1.0 @ 1550 nm
Mode-field Diameter (μm)	5.0 ± 0.3 @ 980 nm 7.5 ± 0.75 @ 1550 nm

Key Geometric, Mechanical and Environmental Specifications

Cladding Outside Diameter (μm)	125 ± 0.5
Coating Outside Diameter (μm)	245 ± 10
Core-to-Cladding Offset (μm)	≤ 0.3
Proof Test (kpsi)	200
Operating Temperature (°C)	-60 to 85
Coating	Dual UV Acrylate
Recommended Minimum Bending Radius (mm)	30

Performance Characterizations*

Nominal Delta/Profile (%)	0.68
Numerical Aperture	0.17
Refractive Index Value – Core	1.467 @ 651 nm
Dispersion (ps/nm/km)	-55.4 @ 980 nm 0.2 @ 1550 nm
Core Diameter (μm)	4.5

* Values in this table are nominal or calculated values

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 t +1-607-974-9974
 f +1-607-974-4122
 specialtyfiber@corning.com

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