

UV-Sensitive Fibers

PRODUCT DESCRIPTION

CorActive UV-Sensitive optical fibers are specifically designed to meet the photosensitivity requirements for the manufacturing of Bragg gratings and dispersion compensators. The quality of Bragg gratings depend heavily on the UV-sensitive fiber used to write the grating. CorActive's forefront technology and expertise allow us to recommend the perfect fiber design for your application. CorActive's Cladding Mode Suppression products have been engineered to write Bragg gratings without the cladding modes in the shorter wavelength range. This results from a tight balance of photosensitivity in both the cladding and core of the fiber.

AVAILABLE MODELS

UVS-INT

CorActive's Cladding Mode Suppression UV-INT series have been engineered to write Bragg gratings without the cladding modes in the shorter wavelength range. This results from a tight balance of photosensitivity in both the cladding and core of the fiber.

For applications requiring extremely low PMD levels, UVS-INT-PMD3 version featuring the lowest PMD on the market is optionally available.

UVS-652

CorActive UVS-652 Series shares the same characteristics than the UVS-INT series but is specifically designed for low coupling loss to standard G.652 singlemode fiber.

APPLICATIONS

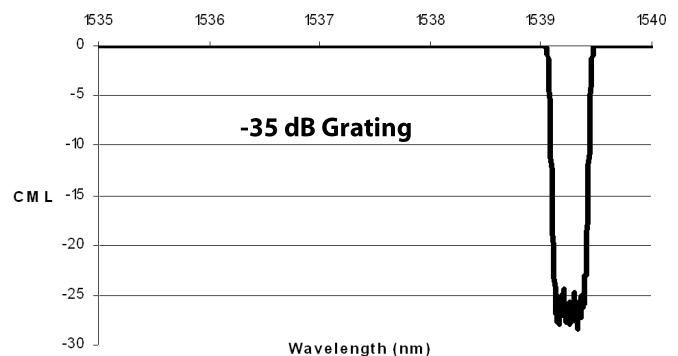
- Fiber Bragg Gratings
- Dispersion Compensators
- Fiber Sensors
- DWDM Filters
- EDFA Gain Equalizing Filters

ADVANTAGES

- Tight balance of photosensitivity in both the cladding and core of the fiber (652 & INT) ensures cladding mode suppression in the short wavelength range
- Optimized splice recipes provided ensures low splice losses to standard telecom fiber (<0.1db)
- Consistent reproducibility reduces manufacturing costs and increases production yield
- World lowest PMD (UVS-INT-PMD3)



PERFORMANCES

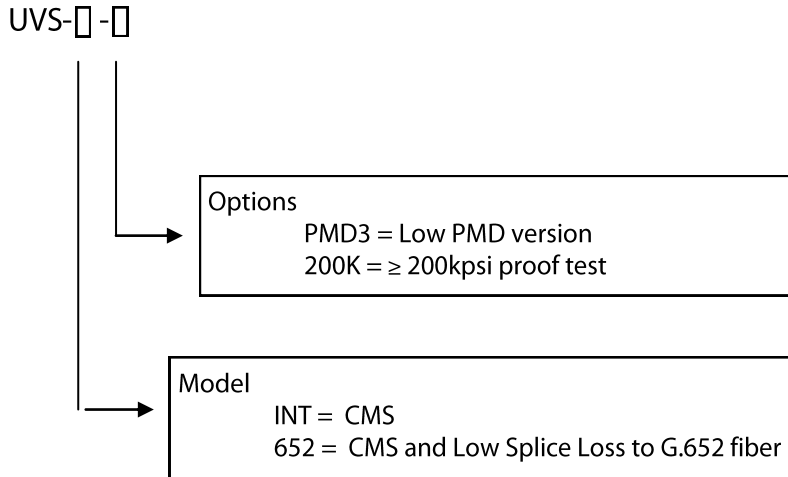


Cladding Modes < 0.05dB

SPECIFICATIONS

Optical	UVS-INT	UVS-INT-PMD3	UVS-652
Mode Field Diameter (um)	6.3 ± 0.6	6.3 ± 0.6	9.3 ± 0.6
Effective Numerical Aperture (Typical)	0.20	0.20	0.14
Theoretical Cut-off Wavelength (nm)	1350 ± 50	1350 ± 50	1200 ± 75
PMD (fs/m)	Not Specified	< 3	Not Specified
Geometrical&Mechanical	UVS-INT	UVS-INT-PMD3	UVS-652
Cladding Diameter (um)		125 ± 0.5	
Coating Diameter (um)		245 ± 10	
Core/clad Concentricity Error (um)		< 0.5	
Proof Test (kpsi)		≥ 150	

UVS ORDERING INFORMATION



Other options are available upon request.

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Specialty Optical Fiber Manufacturer

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