

## 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 Series

CorActive's Cladding Mode Suppression UVS-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-ULTRA version featuring the lowest PMD on the market is optionally available.

### APPLICATIONS

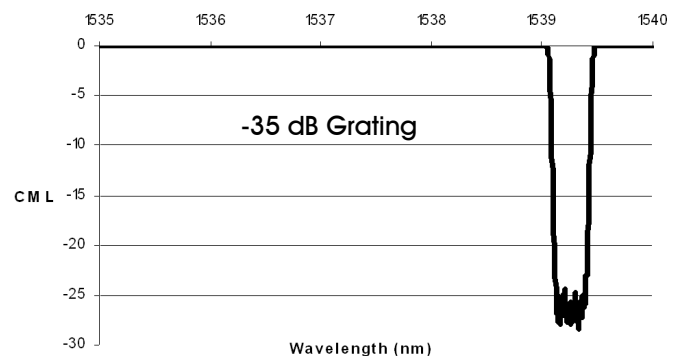
- Fiber Bragg Gratings
- Dispersion Compensators
- Fiber Sensors
- DWDM Filters
- EDFA Gain Equalizing Filters

### ADVANTAGES

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



### PERFORMANCES



Cladding Modes < 0.05dB

## SPECIFICATIONS

Optical	UVS-INT-A	UVS-INT-PREMIUM	UVS-INT-ULTRA
Mode Field Diameter (um)	6.6 ± 0.6	6.6 ± 0.6	6.6 ± 0.6
Effective Numerical Aperture (Typ)	0.20	0.20	0.20
Theoretical Cut-off Wavelength (nm)	1350 ± 50	1350 ± 50	1350 ± 50
Birefringence (x10 <sup>-6</sup> )	≤ 1.6	≤ 0.9	≤ 0.5
Geometrical&Mechanical			
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

UVS- INT - □



Options

- A = Low PMD version
- Premium = Very low PMD version
- Ultra = Ultra low PMD version
- 200K = ≥ 200kpsi proof test

Other options are available upon request.

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