

# UVS-INT-PMD3

## Photosensitive Fiber



This photosensitive fiber is suitable for a range of applications, including telecommunications. It provides more uniformity and is beneficial for manufacturing Bragg gratings and dispersion compensators used in DWDM.

## Features & Benefits

- Tight balance of photosensitivity in both the cladding and core of the fiber – ensures **cladding mode suppression** in the short wavelength range
- Optimized splicing process – ensure **low splice losses** to standard telecom fiber (<0.1 db)
- **Consistent reproducibility** – reduces manufacturing costs and increases production yield

## Applications

- Fiber Bragg Gratings
- Dispersion compensators
- Telecom

## Specifications

### Optical

Core Numerical Aperture	0.20
Birefringence	Typical < 1.2E-06
Background Loss @ 1550 nm (dB/km)	< 60
Cutoff wavelength (nm)	1325 ± 50
Mold Field Diameter @ 1550 nm (µm)	6.6 ± 0.6

### Geometrical & Mechanical

Core Diameter – Nominal (µm)	5.1
Cladding Diameter (µm)	125.0 ± 1.0
Core/Cladding Concentricity Error (µm)	< 0.5
Coating Diameter (µm)	245 ± 10
Proof Test (kpsi)	≥ 150

### Environmental

Operating Non-Condensing Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Non-Condensing Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85