

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	$\leq 1.2E-06$
Background Loss @ 1550 nm (dB/km)	< 60
Cutoff wavelength (nm)	1325 \pm 50
Mold Field Diameter @ 1550 nm (μ m)	6.6 \pm 0.6

Geometrical & Mechanical

Core Diameter – Nominal (μ m)	5.1
Cladding Diameter (μ m)	125.0 \pm 1.0
Core/Cladding Concentricity Error (μ m)	< 0.5
Coating Diameter (μ m)	245 \pm 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