

Cladding Mode Suppressed Photosensitive Single-Mode Fiber



Nufern Cladding Mode Suppressed Photosensitive Fiber is designed for very good cladding mode suppression—cladding modes are suppressed to less than 0.1 dB for a 30 dB grating and low splice loss. This photosensitive fiber provides cost-savings for grating-writing because customers can write highly repeatable, quality gratings in a short time.

Typical Applications

- Couplers
- DWDM
- Broadband

Features & Benefits

- Excellent cladding mode suppression — Allows for tighter channel spacing
- Mode matched to conventional transmission fibers — Low splice loss

Optical Specifications

Operating Wavelength	1400 – 1600 nm
Core NA	0.140
Mode Field Diameter	9.6 ± 0.8 μm @ 1550 nm
Cutoff	1265 ± 115 nm
Cladding Mode Suppression	< 0.1 dB for a 30 dB Grating

CMS2

Geometrical & Mechanical Specifications

Cladding Diameter	125.0 ± 1.5 μm
Core Diameter	9.0 μm
Coating Diameter	245.0 ± 15.0 μm
Coating Concentricity	< 5.0 μm
Core/Clad Offset	≤ 0.50 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature Range	-55 to 85 °C
Short Term Bend Radius	≥ 12 mm
Long Term Bend Radius	≥ 25 mm
Proof Test Level	≥ 100 kpsi (0.7 GN/m ²)



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Standard specifications and design parameters are listed above. Specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.