

Cladding Mode Offset Photosensitive Single-Mode Fiber



Nufern's Cladding Mode Offset Fibers offer enhanced performance when writing two or more gratings adjacent to each other (circa 9 nm offset). Cladding Mode Offset fibers exhibit low splice loss to the industry-standard telecommunications fiber. This photosensitive fiber provides a cost-savings for grating-writing because customers can write highly repeatable, quality gratings in a short time.

Typical Applications

- OADM
- C+L Band Gratings
- Sensors

Features & Benefits

- High photosensitivity — shorter grating writing time
- High cladding mode offset ~ 9nm — allows for tighter channel spacing
- Tight mechanical and optical tolerances — high component manufacturing yields

Optical Specifications

Operating Wavelength	1500 – 1600 nm
Core NA	0.300
Mode Field Diameter	4.0 ± 0.3 μm @ 1550 nm
Cutoff	1350 ± 100 nm
Cladding Mode Offset	9 nm

GF4A

Geometrical & Mechanical Specifications

Cladding Diameter	125.0 ± 1.5 μm
Core Diameter	3.5 μm
Coating Diameter	250.0 ± 20.0 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.