

# 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 <sup>2</sup> )



7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com Nufern products are manufactured under an ISO 9001:2008 certified quality management system.



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.

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