Nufern 780 nm Select Cut-Off Single-Mode Fiber

Nufern's 780-HP high-performance select cut-off single-mode fiber is optimized at near IR wavelengths. This application-specific fiber was developed for applications requiring coupler generation, diode pigtails and unique delivery needs for the near IR continuum. Compared to the best fibers available today, 780-HP fiber features higher proof test levels and tighter second mode cut-off tolerance. These features result in higher strength, increased component reliability, improved production yields and reduced costs for component manufacturers.

Typical Applications

- Couplers
- Diode pigtails

Features & Benefits

- Superior fiber geometrical tolerances — Improved connectorization and coupling performance
- Extremely tight second mode cutoff tolerance — Enhanced component reproducibility
- Higher proof test level — Greater reliability for tight bend applications

Optical Specifications	**780-HP**
Operating Wavelength	780 – 970 nm
Core NA	0.130
Mode Field Diameter (Gaussian)	5.0 ± 0.5 µm @ 850 nm
Cutoff	730 ± 30 nm
Core Attenuation	≤ 3.5 dB/km @ 850 nm ≤ 4.0 dB/km @ 780 nm
Geometrical & Mechanical Specifications	
Cladding Diameter	125.0 ± 1.0 µm
Core Diameter	4.4 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	≥ 6 mm
Long Term Bend Radius	≥ 13 mm
Prooftest Level	≥ 200 kpsi (1.4 GN/m²)

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Nufern products are manufactured under an ISO 9001:2008 certified quality management system.

RoHS

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