

Nufern 980 nm Select Cut-Off **Single-Mode Fibers**

Nufern's 980 nm high-performance select cut-off single-mode fibers are optimized for use by component manufacturers in the telecommunications wavelengths. These application-specific fibers were developed for pump diode pigtails, unique delivery for components, and couplers. Available in 80 µm and 125 µm form factors, Nufern's 980 nm fibers offer exceptional uniformity and core/clad concentricity specifications, very tight second mode cut-off tolerances, and tighter bend radius applications in miniaturized fiber optic packages. These high-performance specifications result in superior strength, increased component reliability, improved production yields and reduced component manufacturer costs.

Typical Applications

- · Pump Diode Pigtails
- · Metro components
- Small form factor components
- Couplers

Features & Benefits

- Exceptional uniformity and core/clad concentricity Low, consistent splice loss to telecom components
- Extremely tight second mode cutoff tolerance High yield coupler manufacturing
- Higher proof test levels Critical for long-term reliability in tight bend applications

Optical Specifications

Operating Wavelength Core NA Mode Field Diameter

> Cutoff Core Attenuation

980-HP

980 - 1600 nm 0.200 4.2 ± 0.5 um @ 980 nm

 $6.8 \pm 0.5 \, \mu \text{m} @ 1550 \, \text{nm}$ $920 \pm 30 \text{ nm}$ ≤ 3.5 dB/km @ 980 nm

980-HP-80

980 - 1600 nm 0.200 4.2 ± 0.5 um @ 980 nm $6.8 \pm 0.5 \, \mu \text{m} @ 1550 \, \text{nm}$

 $920 \pm 30 \text{ nm}$ ≤ 3.5 dB/km @ 980 nm

980M-HP-80

980 - 1600 nm 0.170

4.7 ± 0.3 um @ 980 nm

≤ 3.0 dB/km @ 980 nm

 $930 \pm 30 \text{ nm}$

Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter Coating Diameter Coating Concentricity Core/Clad Offset Coating Material Operating Temperature Range Short Term Bend Radius Long Term Bend Radius Prooftest Level

 $125.0 \pm 1.0 \, \mu m$ 3.6 µm $245.0 \pm 15.0 \, \mu m$

 $< 5.0 \, \mu m$ $\leq 0.50 \, \mu m$ UV Cured, Dual Acrylate

-55 to 85 °C ≥ 6 mm ≥ 13 mm

≥ 200 kpsi (1.4 GN/m²)

 $80.0 \pm 1.0 \, \mu m$

3.6 µm $165.0 \pm 10.0 \, \mu m$ $< 5.0 \, \mu m$

≤ 0.50 µm UV Cured, Dual Acrylate

≥ 9 mm

-55 to 85 °C ≥ 4 mm

≥ 200 kpsi (1.4 GN/m²)

$80.0 \pm 1.0 \, \mu m$

4.5 µm $165.0 \pm 10.0 \, \mu m$

 $< 5.0 \, \mu m$ ≤ 0.50 µm

UV Cured, Dual Acrylate -55 to 85 °C

≥ 4 mm ≥ 9 mm

≥ 200 kpsi (1.4 GN/m²)



coating may be available. Let us know how Nufern can assist with your requirements.

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RoHS