

Short Wavelength Pure Silica Core Polarization Maintaining Fibers

Nufern's industry leading short wavelength pure silica core polarization maintaining fibers have superior waveguide, radiation, and mechanical properties, enabling a large variety of applications in diverse markets. High consistency and extreme end-to-end control of optical properties provide particular advantage in spectrographic and frequency sensitive applications. The pure silica core fiber is optimum for demanding applications in the UV and visible spectrum requiring ultra-low attenuation over longer lengths and where resistance to radiation-induced damage and color center formation are

Typical Applications

- · Laser pigtailing
- Spectroscopy
- Sensors
- · Bio-medical
- Metrology

Features & Benefits

- Panda-style configuration Superior optical performance, intrinsically good radiation performance
- Tight specifications Highly deterministic results, highest product yield
- High proof test Low risk of mechanical damage and failure
- High fatigue failure resistance Longest service life
- Pure silica core Resistance to radiation-induced damage and color center formation

Optical Specifications

Operating Wavelength Core NA

Mode Field Diameter (Gaussian) Cutoff

Core Attenuation Beat Length (nominal)

Birefringence

Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter Coating Diameter Coating Concentricity Core/Clad Offset

Coating Material Operating Temperature Range Prooftest Level PM-S460-HP

460 - 550 nm0.120

 $3.5 \pm 0.3 \text{ um} @ 460 \text{ nm}$ $420 \pm 30 \text{ nm}$

≤ 30.0 dB/km @ 460 nm 2.3 mm @ 460 nm

nominal 2 × 10-4

PM-S630-HP

630 - 780 nm0.120

4.2 ± 0.5 µm @ 630 nm

 $580 \pm 40 \text{ nm}$

≤ 12.0 dB/km @ 630 nm 4.7 mm @ 630 nm nominal 1.3 × 10-4

 $125.0 \pm 1.0 \, \mu m$ $125.0 \pm 1.0 \, \mu m$ 3.0 µm $3.5 \, \mu m$ $245.0 \pm 15.0 \, \mu m$ $245.0 \pm 15.0 \, \mu m$ $< 5.0 \, \mu m$ $< 5.0 \, \mu m$

≤ 0.50 µm ≤ 0.50 um UV Cured, Dual Acrylate UV Cured, Dual Acrylate

-40 to 85 °C -40 to 85 °C

≥ 200 kpsi (1.4 GN/m²) ≥ 200 kpsi (1.4 GN/m²)



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