# **EyeSafe Delivery Fibers**



Nufern has specifically engineered a unique range of single-mode 2µm beam delivery fibers for the long wavelength EyeSafe window from 1850-2200nm, available in both PM and non-PM versions. By applying our extensive fiber manufacturing expertise, gained in the demanding telecommunications industry, this family of fibers has excellent uniformity and high fatigue failure resistance. These fibers are aimed at emerging fiber applications for the 2µm wavelength, including medical, military/aerospace and industrial fiber laser markets.

### **Typical Applications**

- · Pigtailing 2µm components
- · Tm-fiber lasers/amplifiers
- · 2µm beam delivery

#### **Features & Benefits**

- Optimized for 2µm wavelengths Higher performance
- · Low bend loss at 2µm Tighter packaging
- · Tight tolerances High product yield

## **Optical Specifications**

Operating Wavelength Core NA

Mode Field Diameter

Cutoff 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

SM1950

1850 – 2200 nm

0.200 8.0 μm @ 1950 nm

(nominal) 1720 ± 80 nm

N/A N/A

 $125.0 \pm 1.0 \, \mu m$ 

 $7.0 \ \mu m$   $245.0 \pm 15.0 \ \mu m$ 

< 5.0 μm

≤ 0.50 µm

UV Cured, Dual Acrylate

-40 to 85 °C

≥ 100 kpsi (0.7 GN/m²)

M05-A-046-A

### PM1950

1850 - 2200 nm

0.200

8.0 µm @ 1950 nm

(nominal)

 $1720 \pm 80 \text{ nm}$ 

5.2 mm @ 1950 nm

nominal  $3.5 \times 10^{-4}$ 

深圳市瑞凯通信科技有限公司

125.0 ± 1.0 µm 7.0 µm

245.0 ± 15.0 µm

< 5.0 µm

≤ 0.50 µm

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-40 to 85 °C

≥ 100 kpsi (0.7 GN/m²)



