

# **Polarization Maintaining Telecommunication Fibers**

The breadth of Nufern's range of Polarization Maintaining fibers is unrivaled. Designed for use from 980 to 1620 nm, these fibers are used in all PM applications for data and telecom. Nufern has applied its unique manufacturing facility and capabilities to this product area and has made substantial optical, mechanical and geometrical tolerance improvements. Furthermore, higher strength and fatigue failure resistance allows customers to achieve more uniform product results and to attain the highest possible manufacturing yields.

# **Typical Applications**

- · Lithium niobate modulators, PMD compensators
- · Raman gain modules
- Pigtailing

# **Features & Benefits**

**PM980-XP** 

970 - 1550 nm

Tight specifications — Highly deterministic results, highest product yield

PM1300-HP

1270 - 1625 nm

- High proof test Low risk of mechanical handling failure
- High fatigue failure resistance Longest service life

## **Optical Specifications**

Operating Wavelength			
Core NA			
Mode Field Diameter			
Cutoff			
Core Attenuation			
Beat Length			
Normalized Cross Talk			

### **Geometrical & Mechanical Specifications**

Cladding Diameter			
Core Diameter			
Coating Diameter			
Coating Concentricity			
Core/Clad Offset			
Coating Material			
Operating Temperature Range			
Prooftest Level			

0.120	0.120
6.6 ± 0.7 µm @ 980 nm	9.5 ± 1.0 µm @ 1300 nm
920 ± 50 nm	1200 ± 70 nm
≤ 2.5 dB/km @ 980 nm	≤ 1.0 dB/km @ 1300 nm
≤ 2.7 mm @ 980 nm	≤ 4 mm @ 1300 nm
$\leq$ - 40.0 dB at 4 m @ 980	$\leq$ - 40.0 dB at 4 m @ 1300
nm	nm
≤ - 30.0 dB at 100 m @	≤ - 30.0 dB at 100 m @
980 nm	1300 nm

125.0 ± 1.0 µm	125.0 ± 1.0 μm
5.5 µm	8.0 µm
245.0 ± 15.0 μm	245.0 ± 15.0 µm
< 5.0 µm	< 5.0 µm
≤ 0.50 µm	≤ 0.50 µm
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)



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.