

## Polarization Maintaining Low Loss Coupler Fibers

Nufern's broad line of PM fibers now includes PM980C-HP & PM14XXC-HP coupler fibers. Components designed with these new coupler fibers exhibit insertion losses up to one order of magnitude better than was previously possible. These fibers also demonstrate superior polarization control in coupler applications, resulting in increased system and network efficiencies.

## **Typical Applications**

- · Couplers and combiners
- Pump combiners
- · Raman gain modules

## **Features & Benefits**

- Dramatically reduced insertion loss Lower system cost
- High proof test (200kpsi) Low risk of mechanical handling failure
- High fatigue failure resistance Longest service life

<b>Op</b>	tic	al :	Sp	ec	ifi	ca	tio	ns
-----------	-----	------	----	----	-----	----	-----	----

Operating Wavelength Core NA

Mode Field Diameter

Cutoff Core Attenuation

Normalized Cross Talk

PM980C-HP

970 - 1550 nm

6.6 ± 1.0 µm @ 980 nm

 $900 \pm 70 \text{ nm}$ ≤ 2.5 dB/km @ 980 nm

 $\leq$  - 37.0 dB at 2 m @ 980

≤ - 20.0 dB at 100 m @

980 nm

PM14XXC-HP

1390 - 1625 nm

0.120 0.125

9.8 ± 0.8 um @ 1450 nm 10.4 ± 0.8 µm @ 1550 nm

 $1320 \pm 60 \text{ nm}$ 

≤ 1.0 dB/km @ 1450 nm ≤ 1.0 dB/km @ 1550 nm

≤ - 37.0 dB at 2 m @ 1550

≤ - 20.0 dB at 100 m @

1550 nm

## **Geometrical & Mechanical Specifications**

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

5.5 µm  $245.0 \pm 15.0 \, \mu m$  $< 5.0 \mu m$  $\leq 0.50 \, \mu m$ UV Cured, Dual Acrylate

-40 to 85 °C  $\geq$  200 kpsi (1.4 GN/m<sup>2</sup>)

 $125.0 \pm 1.0 \, \mu m$  $125.0 \pm 1.0 \, \mu m$  $8.0 \, \mu m$  $245.0 \pm 15.0 \, \mu m$  $< 5.0 \ \mu m$ ≤ 0.50 µm UV Cured, Dual Acrylate

-40 to 85 °C

≥ 200 kpsi (1.4 GN/m²)



