# 80 µm Polarization Maintaining 980 nm Telecommunication Fibers



Coherent's Polarization Maintaining Telco fibers are designed for today's most advanced networks. Optimized for use at 980 nm, these fibers are used in all PM applications for data and telecom. Coherent has applied its unique manufacturing facility and capabilities to this product area and has established leading optical, mechanical and geometrical tolerances. The 80  $\mu$ m version of our fiber offers low bend loss and extinction ratios at small bend diameters enabling our customers to reduce package sizes. Available with a 165 micron coating diameter and prooftested to 200 kpsi, Coherent's 80  $\mu$ m PM fibers will meet the demands of all current and future applications.

### **Typical Applications**

- Pump pigtails
- · Grating stabilizers
- PM patchcords
- · Polarization sensitive devices

#### **Features & Benefits**

PM980-XP-80

 $910 \pm 40 \text{ nm}$ 

980 nm

 $6.0 \pm 0.5 \, \mu m @ 980 \, nm$ 

≤ 2.0 dB/km @ 1060 nm ≤ 2.5 dB/km @ 980 nm

≤ - 40.0 dB at 4 m @ 980

≤ - 30.0 dB at 100 m @

≤ 2.6 mm @ 980 nm

0.130

- Smaller 80 μm form factor Reduced component sizes
- Tight specifications Highly deterministic results, highest product yield
- High fatigue failure resistance Longest service life
- All fiber prooftested to > 200 kpsi Critical for ensuring long term reliability

## **Optical Specifications**

# Operating Wavelength 960 – 1550 nm

Core NA
Mode Field Diameter
Cutoff

Core Attenuation

**Specifications** 

Prooftest Level

Beat Length Normalized Cross Talk

Geometrical & Mechanical

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

er 80.0 ± 1.0 μm er 5.0 μm

 $165.0 \pm 10.0 \,\mu \text{m}$  <  $5.0 \,\mu \text{m}$ 

≤ 0.50 µm Acrylate

-40 to 85 °C

≥ 200 kpsi (1.4 GN/m²)



