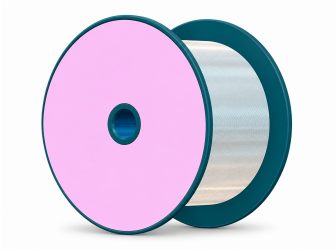
Standard Polarization-Maintaining Fiber

Polarization-maintaining fiber for optical components, available at operating wavelengths of 780, 980, 1310 and 1550 nm.



Technical specifications

Model	PM780/125-12/245G	PM980/125-12/245G
Operating wavelength (nm)	780	980
Cutoff wavelength (nm)	650–770	800–970
Mode-field diameter (µm)	5.5 ± 0.5 @ 850 nm	6.5 ± 0.5
Attenuation (dB/km)	≤4.0	≤2.5
Beat length (mm)	≤3.0	≤3.0
Crosstalk over 100 m (dB)	≤−30	≤−30
Crosstalk over 4 m (dB)	≤−40	≤−40
Cladding diameter (µm)	125.0 ± 1.0	125.0 ± 1.0
Coating diameter (µm)	245.0 ± 7.0	245.0 ± 7.0
Cladding non-circularity (%)	≤1.0	≤1.0
Core/cladding concentricity error (µm)	≤0.5	≤0.5
Coating	Dual-layer UV-cured acrylate	Dual-layer UV-cured acrylate
Operating temperature (°C)	−55 to +85	−55 to +85
Proof stress (kpsi)	≥100	≥100

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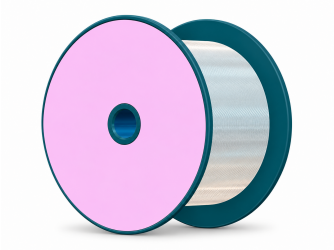

Technical specifications

Model	PM1310/80-13/245G	PM1550/125-18/245G
Operating wavelength (nm)	1310	1550
Cutoff wavelength (nm)	1100–1290	1290–1520
Mode-field diameter (µm)	9.0 ± 0.5	10.5 ± 0.5
Attenuation (dB/km)	≤0.5	≤0.5
Beat length (mm)	≤4.0	≤5.0
Crosstalk over 100 m (dB)	≤−30	≤−30
Crosstalk over 4 m (dB)	≤−40	≤−40
Cladding diameter (µm)	125.0 ± 1.0	125.0 ± 1.0
Coating diameter (µm)	245.0 ± 7.0	245.0 ± 7.0
Cladding non-circularity (%)	≤1.0	≤1.0
Core/cladding concentricity error (µm)	≤0.5	≤0.5
Coating	Dual-layer UV-cured acrylate	Dual-layer UV-cured acrylate
Operating temperature (°C)	−55 to +85	−55 to +85
Proof stress (kpsi)	≥100	≥100