

Polarization Maintaining Fibre for Component

Grinding Polarization Maintaining Fibre for Component

Characteristics

- Excellent grinding properties
- Tight geometric tolerances
- High environmental stability and reliability
- Excellent polarization maintaining properties

Applications

- High performance transmission laser pigtails
- Polarization-sensitive components
- Polarization maintaining device pigtails

Specifications-1

Fibre Type	PM 980_ 125-12/250	PM 980_ 125-12/400	PM 1310_ 125-13/250	PM 1310_ 125-13/400
Part No.	PM1015-A	PM1025-A	PM1016-C	PM1026-C
Optical Properties				
Operating Wavelength (nm)	980	980	1310	1310
Cut-off Wavelength (nm)	800 - 970	800 - 970	1100 - 1290	1100 - 1290
Mode Field Diameter (μm)	6.5 ± 0.5@980nm	6.5 ± 0.5@980nm	9.0 ± 0.5@1310nm	9.0 ± 0.5@1310nm
Attenuation (dB/km)	≤ 2.5	≤ 2.5	≤ 0.5	≤ 0.5
Beat Length (mm)	≤ 3.0	≤ 3.0	≤ 4.0	≤ 4.0
Typical Cross Talk at 4m (dB)	≤ -40	≤ -40	≤ -40	≤ -40
Cross Talk at 100m (dB)	≤ -25	≤ -25	≤ -25	≤ -25
Geometrical Properties				
Cladding Diameter (μm)	124.5 ± 1.0	124.5 ± 1.0	124.5 ± 1.0	124.5 ± 1.0
Coating Diameter (μm)	245.0 ± 5.0	400.0 ± 15.0	245.0 ± 5.0	400.0 ± 15.0
Cladding Non-circularity (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Core/Cladding Concentricity (μm)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Coating Type	Dual-layer/UV-acrylate	Dual-layer/UV-acrylate	Dual-layer/UV-acrylate	Dual-layer/UV-acrylate
Mechanical Properties				
Operating Temperature (°C)	-45 to +85	-45 to +85	-45 to +85	-45 to +85
Proof Test (kpsi)	100	100	100	100

Specifications-2

Fibre Type	PM 14xx_ 125-13/250	PM 1550_ 125-13/250	PM 1550_ 125-13/400	PMF 1550_ 125-13/250_BI
Part No.	PM1018-A	PM1017-C	PM1027-C	PM 1017-K
Optical Properties				
Operating Wavelength (nm)	1400 - 1490	1550	1550	1550
Cut-off Wavelength (nm)	1200 - 1380	1290 - 1520	1290 - 1520	1290 - 1520
Mode Field Diameter (μm)	9.8 ± 0.5@1450nm	10.5 ± 0.5@1550nm	10.5 ± 0.5@1550nm	9.0 ± 0.5@1550nm
Attenuation (dB/km)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Beat Length (mm)	≤ 4.5	≤ 5.0	≤ 5.0	≤ 5.0
Typical Cross Talk at 4m (dB)	≤ -40	≤ -40	≤ -40	≤ -40
Cross Talk at 100m (dB)	≤ -25	≤ -25	≤ -25	≤ -30@1550nm/100m
Macro-bend Loss (dB)	-	-	-	≤ 1.0@1550nm (dia. 15mm, 10turns)
Geometrical Properties				
Cladding Diameter (μm)	124.5 ± 1.0	124.5 ± 1.0	124.5 ± 1.0	124.5 ± 1.0
Coating Diameter (μm)	245.0 ± 5.0	245.0 ± 5.0	400.0 ± 15.0	245.0 ± 5.0
Cladding Non-circularity (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Core/Cladding Concentricity (μm)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Coating Type	Dual-layer/UV-acrylate	Dual-layer/UV-acrylate	Dual-layer/UV-acrylate	Dual-layer/UV-acrylate
Mechanical Properties				
Operating Temperature (°C)	-45 to +85	-45 to +85	-45 to +85	- 45 to +85
Proof Test (kpsi)	100	100	100	100

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This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.

Tapering Polarization Maintaining Fibre for Component

Characteristics

- Excellent grinding properties
- Tight geometric tolerances
- High environmental stability and reliability

Applications

- Polarization maintaining fused-fibre couplers
- Polarization-sensitive components
- Polarization maintaining device pigtails

Specifications

Fibre Type	PM 980_ 125-12/250_C	PM 1310_ 125-13/250_C	PM 14xx_ 125-13/250_C	PM 1550_ 125-13/250_C
Part No.	PM1015-A+	PM1016-C+	PM1018-A+	PM1017-C+
Optical Properties				
Operating Wavelength (nm)	980	1310	1400 - 1490	1550
Cut-off Wavelength (nm)	800 - 970	1100 - 1290	1200 - 1380	1290 - 1520
Mode Field Diameter (μm)	6.5 ± 0.5@980nm	9.0 ± 0.5@1310nm	9.8 ± 0.5@1450nm	10.5 ± 0.5@1550nm
Attenuation (dB/km)	≤ 2.5	≤ 0.5	≤ 0.5	≤ 0.5
Beat Length (mm)	3.0 - 5.0	3.0 - 6.0	4.0 - 7.5	4.5 - 8.0
Typical Cross Talk at 4m (dB)	≤ -30	≤ -30	≤ -30	≤ -30
Cross Talk at 100m (dB)	≤ -25	≤ -25	≤ -25	≤ -25
Geometrical Properties				
Cladding Diameter (μm)	124.5 ± 1.0	124.5 ± 1.0	124.5 ± 1.0	124.5 ± 1.0
Coating Diameter (μm)	245.0 ± 5.0	245.0 ± 5.0	245.0 ± 5.0	245.0 ± 5.0
Cladding Non-circularity (%)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Core/Cladding Concentricity (μm)	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Coating Type	Dual-layer, UV-acrylate	Dual-layer, UV-acrylate	Dual-layer, UV-acrylate	Dual-layer, UV-acrylate
Mechanical Properties				
Operating Temperature (°C)	-45 to +85	-45 to +85	-45 to +85	-45 to +85
Proof Test (kpsi)	100	100	100	100