

Polarization Maintaining Fibre for Component

Conventional PMF for Component

Features

- Excellent polishing properties
- Excellent geometrical uniformity
- High stability and reliability
- Excellent polarization maintaining performance

Applications

- Laser pigtails
- Polarization-sensitive components
- Pigtails of various polarization-maintaining devices

Specifications—1

Fibre type	PM 630_ 125-12/250	PM 780_ 125-12/250	PM 850_ 125-12/250	PM 980_ 125-12/250	PM 980_ 125-12/400
Part No.	PM1011-A	PM1013-A	PM1012-A	PM1015-A	PM1025-A
Optical properties					
Operating wavelength (nm)	630	780	850	980	980
Fibre cutoff wavelength (nm)	520 ~ 620	600 ~ 750	650 ~ 800	800 ~ 970	800 ~ 970
Mode field diameter (μm)	4.5±0.5@630nm	5.0±0.5@780nm	5.5±0.5@850nm	6.5±0.5@980nm	6.5±0.5@980nm
Attenuation (dB/km)	≤15.0	≤4.0	≤3.0	≤2.5	≤2.5
Beat length (mm)	≤2.0	≤3.0	≤3.0	≤3.0	≤3.0
Polarization crosstalk@ 100 m (dB)	≤-30@630nm	≤-30@780nm	≤-30@850nm	≤-30@980nm	≤-30@980nm
Geometrical properties					
Cladding diameter (μm)	124.5±1.0	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	400.0±15.0
Cladding non-circularity (%)	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Core/cladding concentricity error (μm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Coating material	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate
Mechanical performance					
Operating temperature range (°C)	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85
Proof test level (kpsi)	100	100	100	100	100
Fibre length (m)	Customer-specified	Customer-specified	Customer-specified	Customer-specified	Customer-specified

Specifications–2

Fibre type	PM 1310_ 125-13/250	PM 1310_ 125-13/400	PM 14xx_ 125-13/250	PM 1550_ 125-13/250	PM 1550_ 125-13/400
Part No.	PM1016-C	PM1026-C	PM1018-A	PM1017-C	PM1027-C
Optical properties					
Operating wavelength (nm)	1310	1310	1400~1490	1550	1550
Fibre cutoff wavelength (nm)	1100 ~ 1290	1100 ~ 1290	1200~1380	1290~1520	1290~1520
Mode field diameter (μm)	9.0±0.5@1310nm	9.0±0.5@1310nm	9.8±0.5@1450nm	10.5±0.5@1550nm	10.5±0.5@1550nm
Attenuation (dB/km)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Beat length (mm)	≤4.0	≤4.0	≤4.5	≤5.0	≤5.0
Polarization crosstalk@ 4m (dB)	≤-40@1310nm	≤-40@1310nm	≤-40@14xxnm	≤-40@1550nm	≤-40@1550nm
Polarization crosstalk@100m (dB)	≤-30@1310nm	≤-30@1310nm	≤-30@14xxnm	≤-30@1550nm	≤-30@1550nm
Geometrical properties					
Cladding diameter (μm)	124.5±1.0	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	245.0±5.0	400.0±15.0
Cladding non-circularity (%)	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Core/cladding concentricity error (μm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Coating material	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate
Mechanical performance					
Operating temperature range (°C)	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85
Proof test level (kpsi)	100	100	100	100	100
Fibre length (m)	Customer-specified	Customer-specified	Customer-specified	Customer-specified	Customer-specified

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