

Tapering PMF for Component

Features

- Excellent tapering performance
- Relatively high birefringence
- Excellent polishing properties
- High stability and reliability

Applications

- Polarization tapered device
- Polarization-sensitive components
- Pigtails of polarizing devices

Specifications

Fibre type	PM 630_ 125-12/250_C	PM 850_ 125-12/250_C	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.	PM1011-A+	PM1012-A+	PM1015-A+	PM1016-C+	PM1018-A+	PM1017-C+
Optical properties						
Operating wavelength (nm)	630	850	980	1310	1400 ~ 1490	1550
Fibre cutoff wavelength (nm)	520 ~ 620	650 ~ 800	800 ~ 970	1100 ~ 1290	1200 ~ 1380	1290 ~ 1520
Mode field diameter (μm)	4.5±0.5@630nm	5.5±0.5@850nm	6.5±0.5@980nm	9.0±0.5@1310nm	9.8±0.5@1450nm	10.5±0.5@1550nm
Attenuation (dB/km)	≤15.0	≤3.0	≤2.5	≤0.5	≤0.5	≤0.5
Beat length (mm)	≤3.0	2.5 ~ 4.5	3.0 ~ 5.0	3.5 ~ 6.5	4.0 ~ 7.5	4.5 ~ 8.0
Polarization crosstalk@4m (dB)	≤-25@630nm	≤-25@850nm	≤-25@980nm	≤-30@1310nm	≤-30@14xxnm	≤-30@1550nm
Polarization crosstalk@100 m (dB)	≤-25@630nm	≤-25@850nm	≤-25@980nm	≤-25@1310nm	≤-25@14xxnm	≤-25@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	124.5±1.0
Coating diameter (μm)	245.0±5.0	245.0±5.0	245.0±5.0	245.0±5.0	245.0±5.0	245.0±5.0
Cladding non-circularity (%)	≤2.0	≤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	≤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	Dual-layer, UV-cured acrylate
Mechanical performance						
Operating temperature range (°C)	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85	-45 ~ 85
Proof test level (kpsi)	100	100	100	100	100	100
Fibre length (m)	Customer-specified	Customer-specified	Customer-specified	Customer-specified	Customer-specified	Customer-specified

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