

Bending Insensitive PMF for Component

Features

- Excellent bending insensitivity
- Ultra-high birefringence
- Excellent polishing properties
- High stability and reliability

Applications

- Miniaturized modulators, and laser pigtails
- Bending-sensitive devices
- Miniaturized polarization-sensitive components

Specifications

Fibre type	PM 1550_125-13/250BI	PM 1550_125-13/250BI(HB)	PM 1310_125-13/250BI+	PM 1550_125-13/250BI+(HB)	PM 1550_125-13/250BI+(HBHT)
Part No.	PM1017-K	PM1017-KH	PM1016-N	PM1017-NH	PM1017-NHT
Optical properties					
Operating wavelength (nm)	1550	1550	1310	1550	1550
Fibre cutoff wavelength (nm)	1290 ~ 1520	1290 ~ 1520	1100 ~ 1260	1290 ~ 1520	1290 ~ 1520
Mode field diameter (μm)	9.0±0.5@1550nm	9.0±0.5@1550nm	7.8±0.5@1310nm	9.0±0.5@1550nm	9.0±0.5@1550nm
Attenuation (dB/km)	≤0.5	≤3.0	≤3.0	≤3.0	≤3.0
Beat length (mm)	≤5.0	≤3.0	≤3.0	≤3.0	≤3.0
Polarization crosstalk@4m (dB)	≤-40@1550nm	≤-40@1550nm	≤-40@1310nm	≤-40@1550nm	≤-40@1550nm
Polarization crosstalk @ 100m (dB)	≤-30@1550nm ≤-30@1550nm (dia.15mm, 10turns)	≤-30@1550nm ≤-30@1550nm (dia.15mm, 10turns)	≤-30@1310nm ≤-30@1310nm (dia.10mm, 10turns)	≤-30@1550nm ≤-30@1550nm (dia.10mm, 10turns)	≤-30@1550nm ≤-30@1550nm (dia.10mm, 10turns)
Macro-bending loss (dB)	≤1.0@1550nm (dia. 15mm, 10turns)	≤1.0@1550nm (dia. 15mm, 10turns)	≤0.1@1310nm (dia. 10mm, 10turns)	≤0.1@1550nm (dia. 10mm, 10turns)	≤0.1@1550nm (dia. 10mm, 10turns)
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	245.0±5.0
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	Short-term: 260@30min Long-term : -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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