

Polarization Maintaining Fibre for Waveguide

Features

- Excellent polishing properties
- Excellent geometrical uniformity
- High stability and reliability

Applications

- Pigtail to LiNbO₃ FOG chip (IOC)
- Polarization-sensitive components

Specifications

Fibre type	PM 1310_125-16/250_Y	PM 1310_80-16/165_Y	PM 1310_60-16/100_Y	PM 1550_125-18/250_Y	PM 1550_80-18/165_Y	PM 1550_60-18/100_Y
Part No.	PM1016-E	PM1016-F	PM1016-J	PM1017-E	PM1017-F	PM1017-J
Optical properties						
Operating wavelength (nm)	1310	1310	1310	1550	1550	1550
Fibre cutoff wavelength (nm)	1100 ~ 1290	1100 ~ 1290	1100 ~ 1290	1290 ~ 1520	1290 ~ 1520	1290 ~ 1520
Mode field diameter (μm)	6.0±0.5@1310nm	6.0±0.5@1310nm	6.0±0.5@1310nm	6.5±0.5@1550nm	6.5±0.5@1550nm	6.5±0.5@1550nm
Attenuation (dB/km)	≤0.6	≤0.6	≤0.6	≤0.6	≤1.0	≤0.5
Beat length (mm)	2.0~4.0	2.0~4.0	2.5~4.5	2.0~5.0	2.0~5.0	2.5~5.0
Polarization crosstalk@4m (dB)	≤-30@1310nm	≤-30@1310nm	-	≤-30@1550nm	≤-30@1550nm	-
Polarization crosstalk @100m (dB)	≤-30@1310nm	≤-30@1310nm	≤-25@1310nm	≤-30@1550nm	≤-30@1550nm	≤-25@1550nm
Geometrical properties						
Cladding diameter (μm)	125.0±1.0	80.0±1.0	60.0±1.0	125.0±1.0	80.0±1.0	60.0±1.0
Coating diameter (μm)	245.0±5.0	165.0±5.0	103.0±2.0	245.0±5.0	165.0±5.0	103.0±2.0
Cladding non-circularity (%)	≤1.0	≤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	-55 ~ 95	-45 ~ 85	-45 ~ 85	-55 ~ 95
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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