

Polarization Maintaining Fibre for Fibre Coil

Features

- Short beat length
- High birefringence
- Excellent polarization maintaining performance
- Excellent geometrical uniformity and low attenuation
- Excellent bending stability
- Double UV coating structure
- High service stability and reliability

Applications

- FOGs
- Polarization-maintaining fused-fibre couplers
- Polarization-sensitive components
- Laser pigtails
- Polarization-based sensors

Specifications

Fibre type	PM 1310_ 125-16/250	PM 1310_ 80-16/165	PM 1310_ 80-16/135	PM 1310_ 60-16/100	PM 1310_80 -16/135_HT	PM 1550_ 125-18/250	PM 1550_ 80-18/165	PM 1550_ 80-18/135	PM 1550_80 -18/135_HT	PM 1550_ 60-18/100
Part No.	PM1016-A	PM1016-B	PM1016-G	PM1016-M	PM1016-GT	PM1017-A	PM1017-B	PM1017-G	PM1017-GT	PM1017-M
Optical properties										
Operating wavelength (nm)	1310	1310	1310	1310	1310	1550	1550	1550	1550	1550
Fibre cutoff wavelength (nm)	1100 ~ 1290	1100 ~ 1290	1100 ~ 1290	1100 ~ 1290	1100~1290	1290 ~ 1520	1290 ~ 1520	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	6.0±0.5 @1310nm	6.0±0.5 @1310nm	6.5±0.5 @1550nm	6.5±0.5 @1550nm	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	≤0.6	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Beat length (mm)	≤3.0	≤3.0	≤2.5	≤ 3.0	≤2.5	≤3.5	≤3.5	≤3.0	≤3.0	≤ 3.5
Polarization crosstalk @1000 m (dB)	≤-30@ 1310nm	≤-30@ 1310nm	≤-25@ 1310nm	≤-15@ 1310nm	≤-25@ 1310nm	≤-30@ 1550nm	≤-30@ 1550nm	≤-25@ 1550nm	≤-25@ 1550nm	≤-15@ 1550nm
Geometrical properties										
Cladding diameter (μm)	125.0±1.0	80.0±1.0	80.0±1.0	60.0±1.0	80.0±1.0	125.0±1.0	80.0±1.0	80.0±1.0	80.0±1.0	60.0±1.0
Coating diameter (μm)	245.0±5.0	165.0±5.0	135.0±5.0	100.0±5.0	135.0±5.0	245.0±5.0	165.0±5.0	135.0±5.0	135.0±5.0	100.0±5.0
Cladding non-circularity (%)	≤1.0	≤1.0	≤1.0	≤ 1.0	≤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	≤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	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate	Dual-layer, UV-cured acrylate
Mechanical performanc										
Operating temperature range (°C)	-45 ~ 85	-45 ~ 85	-45 ~ 85	-55 ~ 95	-55 ~ 95	-45 ~ 85	-45 ~ 85	-45 ~ 85	-55 ~ 95	-55 ~ 95
Proof test level (kpsi)	100	100	100	100	100	100	100	100	100	100

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