

Fibre Parameters

Fiber Style		Unit	SM	MM 50/125	MM 62.5/125
Condition		nm	1310/1550	850/1300	850/1300
Attenuation		dB/km	≤ 0.36/0.23	≤ 3.0/1.0	≤ 3.0/1.0
Dispersion	1310 nm	Ps/(nm*km)	≤ 18	.....	.....
	1550 nm	Ps/(nm*km)	≤ 22	.....	.....
Bandwidth	850 nm	MHZ.KM	.....	≥ 400	≥ 160
	1300 nm	MHZ.KM	.....	≥ 800	≥ 500
Zero dispersion wavelength		nm	≥1302≤	.....	.....
Zero dispersion slope		nm	≤0.091	.....	.....
PMD Maximum Individual Fiber			≤0.2	.....	.....
PMD Design Link Value		Ps/(nm ² *km)	≤0.08	.....	.....
Fiber cutoff wavelength λ _c		nm	≥1180≤	.....	.....
Cable cutoff wavelength λ _{cc}		nm	≤1260	.....	.....
MFD	1310 nm	um	9.2 ± 0.4	.....	.....
	1550 nm	um	10.4 ± 0.8	.....	.....
Numerical Aperture(NA)			.....	0.200 ± 0.015	0.275 ±
Step (mean of bidirectional measurement)		dB	≤0.05	≤0.10	≤0.10
Irregularities over fiber length and point discontinuity		dB	≤0.05	≤0.10	≤0.10
Difference backscatter coefficient		dB/km	≤0.03	≤0.08	≤0.10
Attenuation uniformity		dB/km	≤0.01	.....	.....
Core diameter		um		50 ± 1.0	62.5 ± 2.5
Cladding diameter		um	60.0 ± 0.1	60.0 ± 0.1	60.0 ± 0.1
Cladding non-circularity		%	≤1.0	≤1.0	≤1.0
Coating diameter		um	242 ± 7	242 ± 7	242 ± 7
Coating/chaffinch concentricity error		um	≤12.0	≤12.0	≤12.0
Coating non circularity error		%	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error		um	≤0.6	≤1.5	≤1.5
Curl(radius)		um	≤4	.....	.....

Environmental Characteristics

Item		Parameter
Tension	Short Term	1200N
	Long Term	600N
Temperature range(C)	Transport & Storage	-20~+60
Minimum bending radius	Short Term	20D mm
	Long Term	10D mm

Geometric Characteristics

Characteristic	Specified Value	Unit
Cladding roundness	≤ 0.7	%
Cladding Diameter	125 ± 0.7	μm
Coating Diameter	245 ± 5	μm
Coating/Packaging Concentricity error	≤12.0	μm
Core/Packaging concentricity error	≤6.0	μm
The wrapage(radius)	≥ 4	m

Cable Mechanical Characteristics

Item		Cable Diameter	Weight
2 cores		4.5mm	25.00kg/km
4 cores		4.5mm	25.00kg/km
6 cores		4.5mm	26.00kg/km
8 cores		5.5mm	30.00kg/km
10 cores		6.0mm	33.00kg/km
12 cores		6.8mm	38.00kg/km
Storage temperature(°C)		-20+60	
Min Bending Radius(mm)	Long Term	10D	
Min Bending Radius(mm)	Short Term	20D	
Min allowable Tensile Strength(N)	Long Term	600	
Min allowable Tensile Strength(N)	ShortTerm	1200	
Crush Load (N/100mm)	ShortTerm	3000	

Ordering Information

Part Number	Product Description
RF2-2TPSMIO-TP	2 core mini fan out flame-retardant tight buffer cable, 09/125 micron Single mode, TPU Sheath
RF2-4TPSMIO-TP	4 Core mini fan out flame-retardant tight buffer cable, 09/125 micron Single mode, TPU Sheath
RF2-6TPSMIO-TP	6 Core mini fan out flame-retardant tight buffer cable, 09/125 micron Single mode, TPU Sheath
RF2-8TPSMIO-TP	8 Core mini fan out flame-retardant tight buffer cable, 09/125 micron Single mode, TPU Sheath
RF2-10TPSMIO-TP	10 Core mini fan out flame-retardant tight buffer cable, 09/125 micron Single mode, TPU Sheath
RF2-12TPSMIO-TP	12 Core mini fan out flame-retardant tight buffer cable, 09/125 micron Single mode, TPU Sheath