Optical characteristics of MaxCap Safe Bend Insensitive OM3/OM4/OM5 10G Multimode fiber

		MaxCap Safe 300 50/125μm (BI-OM3)	MaxCap Safe 550 50/125μm (BI-OM4)	MaxCap Safe 550WB 50/125μm (BI-OM5)
Attenuation	@850nm	≦ 2.6dB/km	≦ 2.6dB/km	≦ 2.6dB/km
	@953nm			≦ 1.7dB/km
	@1300nm	≦ 0.8dB/km	≦ 0.8dB/km	≦ 0.8dB/km
Over filled Launch Bandwidth	@850nm	≧ 1500MHz-km	≧ 3500MHz-km	≧ 3500MHz-km
	@953nm			≧ 1850MHz-km
	@1300nm	≧ 500MHz-km	≧ 500MHz-km	≧ 500MHz-km
Effectective Modal Bandwidth	@850nm	≧ 2000MHz-km	≧ 4700MHz-km	≧ 4700MHz-km
	@953nm			≧ 2470MHz-km
transmission distance 40G&100G Ethernet (850nm)		≦ 100m	≦ 150m	≦ 200m
transmission distance 10GBASE-SR(850nm)		≦ 300m	≦ 550m	≦ 600m
Differential Mode Delay(DMD) @850nm		Any one of the following template		
		DMD	inner	outer
		Templates	0~18μm radius	0~23μm radius
		1	≦ 0.33ps/m	≦ 0.33ps/m
		2	≦ 0.27ps/m	≦ 0.27ps/m
		3	≦ 0.26ps/m	≦ 0.26ps/m
		4	≦ 0.25ps/m	≦ 0.25ps/m
		5	≦ 0.24ps/m	≦ 0.24ps/m
		6	≦ 0.23ps/m	≦ 0.23ps/m
Numerical Aperture		0.200±0.015NA		
Group Index of Refraction	@850nm	1.482		
	@1300nm	1.477		
Zero dispersion wavelength		1295~1320nm	1295~1320nm	1297~1328nm
Zero dispersion slope	ps/(nm ^{2}- km)	≦ 0.001(λo-1990)	≦ 0.001(λo-1990)	≦ 4(-103)/(840(1-(λo/840)^4))

Backscatter Characteristics(@1300nm)

Step(Mean of bidirectional measurement	≦ 0.10dB
Irregularities over fiber length and point discontinuity	≦ 0.10dB

Geometrical Characteristics

Core diameter	50±2.5μm
Core noncircularity	≦ 5%
Cladding diameter	124.8±1.0μm
Cladding noncircularity	≦ 1%
Core/Cladding concentricity error	≦ 1.0μm

Environmental Characteristics (@850nm/@1300nm)

Attenuation at temperature cycling Δα (-60 ℃~+85℃)	≦ 0.10dB/km
Attenuation at temperature-humidity cycling (-10 ℃~ + 85℃ 、 90% R.H.)	≦ 0.10dB/km
Attenuation at damp heat dependence (85℃、85% R.H.、30days)	≦ 0.10dB/km
Attenuation at watersoak dependence (20℃、30 days)	≦ 0.10dB/km

Mechanical Characteristics

Proof test (off line)		≧ 9.0N (≧ 100kpsi)
Attenuation at bending dependence (2turns,15mm diameter,7.5mm radius)	@850nm	≦ 0.2dB
	@1300nm	≦ 0.5dB
Coating strip force(Typical)		1.5N
Dyanamics stress corrosion susceptibility parameter(n_d, Typical)		≧ 27