



FIBRE OPTIC CABLE

SM FIBRE

G652D

OPTICAL CHARACTERISTICS

Variable		Unit	Value
Attenuation	1310nm	dB/km	≤0.36
	1383nm		≤0.32
	1550nm		≤0.24
	1625nm		≤0.24
Attenuation Coefficient/ Uniformity		db/km	≤0.05
Zero- Dispersion wavelength		nm	1300~1324
Zero- Dispersion slope		ps/mm ² km	≤0.092
Dispersion Co-efficient	1285~1340	ps (nm km)	-3.0~3.0
	1550		≤18
	1625		≤22
PMD	Max	ps/km ½	0.2
	Link		0.8
Mode Field Diameter at	1310nm	µm	9.2±0.4
	1550nm		10.4±0.8
Effective Group Index (NEFF)	1310	nm	1.4675
	1550		1.4680
Point Discontinuity at 1550nm		dB	≤0.05
Cable Cut-off wavelength λ _{cc}		nm	≤1260
Cladding Diameter		µm	125±1
Cladding Non-Circularity		%	≤1
Core/Cladding Concentricity Error		µm	≤0.4
Fibre Diameter with coating (uncoloured)		µm	245±5
Cladding/Coating Concentricity Error		µm	≤12.0
Curl		m	≥4
Environmental Characteristics		1310 ~ 1550nm	
Temperature Induced Attenuation	-60~+85°C	dB/km	≤0.5
Dry Heat Induced Attenuation	85±2°C- 30 days	dB/km	≤0.5
Damp Heat Induced Attenuation	85±2°CRH 85% - 30 days	dB/km	≤0.5
Mechanical Characteristics			
Proof Test		GPa	0.69
Coating Strip Force (typical Value)		N	1.4
Dynamic Stress Corrosion Susceptibility Parameter (typical value)		Nd	≥20
Macro-Bend Loss (100 turns, 75m)	Ø 32mm, 1 turn	dB	≤0.5
	Ø 60mm, 100 turns		≤0.5