LINXCOM UK

NETWORKING & TELECOMMUNICATIONS END-TO-END SOLUTIONS

FIBRE OPTIC CABLE

SM FIBRE G655

OPTICAL CHARACTERISTICS			
Variable		Unit	Value
Attenuation	1310nm	dB/km	≤0.4
	1383nm		≤0.4
	1550nm		≤0.22
	1625nm		≤0.24
Attenuation vs. wavelength	1525~1575	dB/km	≤0.02
Max. α difference	1625		≤0.03
Dispersion Co-efficient	1530~1565	ps (nm km)	2.0~6.0
	1565~1625		4.5~11.2
PMD	Max	ps/km ½	0.1
	Link		0.8
Mode Field Diameter at 1550nm		μm	9.6±0.4
Effective Group Index (NEFF)	1550	nm	1.468
	1625		1.469
Point Discontinuity at 1550nm		dB	≤0.5
Cladding Diameter		μm	125±1
Cladding Non-Circularity		%	≤0.7
Core/Cladding Concentricity Error		μm	≤0.5
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
Water Immersion Inducted Attenuation	23±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