B3 INTERNATIONAL

G.652.D Single-Mode Optical Fibre Specifications

Corning® SMF-28e+® Fibre	
Cladding Diameter	125,0 ± 0,7 µm
Cladding Non-Circularity	≤ 0,7%
Core/Cladding Concentricity	≤ 0,5 µm
Coating Diameter	242 ± 5 µm
Coating –Cladding Concentricity	≤ 12 µm
Attenuation – Loose Tube Cables	
@ 1310 nm (typical / maximum)	0,31 / 0,35 dB/km
@ 1550 nm (typical / maximum)	0,20 / 0,24 dB/km
@ 1625 nm (typical / maximum)	0,21 / 0,26 dB/km
Attenuation – Tight Buffer Cables	
@ 1310 nm (typical / maximum)	0,30 / 0,35 dB/km
@ 1550 nm (typical / maximum)	0,25 / 0,30 dB/km
@ 1625 nm (typical / maximum)	0,35 / 0,40 dB/km
Dispersion	
@ 1550 nm	≤ 18 ps/nm.km
@ 1625 nm	≤ 22 ps/nm.km
Chromatic Dispersion	
Zero Dispersion Wavelength (λ_0)	1304 – 1324 nm
Zero Dispersion Slope (S_0)	≤ 0,092 ps/nm^2 km
Group Refractive Index	
@ 1310 nm	1,4676
@ 1550 nm	1,4682
Mode Field Diameter	
@ 1310 nm	9,2 ± 0,4 µm
@ 1550 nm	10,4 ± 0,5 µm
Cut-Off Wavelength (λ_{CC})	≤ 1260 nm
PMD Individual Fiber	< 0,1 ps/√km
Tensile Proof Test	≥100 kpsi (0,7 GPa)
Fiber Curl	≥4,0 m radius
Coating Strip Force	
Dry	3N
Wet, 14-day room temperature	3N
Macrobending 100 turns, 60 mm, @ 1625 nm	< 0,03 dB
Macrobending 100 turns, 50 mm, @ 1310 nm	< 0,03 dB
Macrobending 100 turns, 50 mm, @ 1550 nm	< 0,03 dB
Macrobending 1 turn, 32 mm, @ 1550 nm	< 0,03 dB

*Values for cabled fibre, local attenuation discontinuity ≤0.1dBNote: Due to OTDR measurement uncertainty B3 International cannot guarantee attenuation values at fibres shorter than 1000m.

Parameters are subject to change without notice.

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