DIXI TRANSPORTKABEL
Vítězství 67, 405 02 DĚČÍN 33
Czech Republic

Optical Fibres Geometrical and Transmission Parameters

Fibre type to ITU-T	OS2 (9/125)[A] G.652.D	OS2 (9/125)[A] G.657.A1	9/125 G.655.D	9/125 G.655.E, G.656
TK DIXI Fibre Nomenclature	S2	S7	S5	S6
Mode Field Diameter (µm)				
@ 1310 nm	9.2 ± 0.4			
@ 1550 nm	10.4 ± 0.5		8.4 ± 0.6	8.6 ± 0.4
Cladding Diameter (µm)	125 ± 0.7			
Coating Diameter (µm)	240 ± 5			
Attenuation [B] (dB/km)				
typical / max. (single fibre) @ 1310 nm	**0.31** /0.36			
typical / max. (single fibre) @ 1550 nm	**0.20** / 0.25		**0.25** / 0.30	
typical / max. (single fibre) @ 1625 nm	**0.21** / 0.27		**0.27** / 0.34	

Fibre type	OM1 (62,5/125)	OM2 (50/125)[A]	OM3 (50/125)[A]	OM4 (50/125)[A]
TK DIXI Fibre Nomenclature	M1	M2	M3	M4
Numerical Aperture(µm)	0.275 ± 0.015	0.200 ± 0.015		
Core Diameter (µm)	62.5 ± 2.5	50.0 ± 2.5		
Cladding Diameter (µm)	125 ± 1.0			
Coating Diameter (µm)	242 ± 5			
Overfilled Modal Bandwidth (Mhz.km)				
@ 850 nm	≥ 200	≥ 500	≥ 1500	≥ 3500
@ 1300 nm	≥ 500	≥ 500	≥ 500	≥ 500
Link Length (m)				
1 Gb/s	≤ 220	≤ 550	≤ 1000	≤ 1100
10Gb/s	≤ 33	≤ 82	≤ 300	≤ 550
Attenuation [B] (dB/km)				
typical / max. (single fibre) @ 850 nm	**2.7** / 3.3	**2.5** / 3.5		
typical / max. (single fibre) @ 1300 nm	**0.6** / 1.1	**0.6** / 1.5		

Notes:
A - Bend-insensitive fibres
B - Attenuation values valid for loose-tube cables