DATA REQUIREMENTS SHEETS FOR OPGW

Manufacturer: **STERLITE POWER TRANSMISSION LIMITED**

Part #: **FGB048-1A4.00-0812**

Configuration: **Dual Layer stainless steel tube design**

Cable Construction:		
S.No.	***Parameter***	***SPTL OFFERED***
1	No. of Fibres	48 F ITU T G652D
2	Buffer Type	Loose Tube
3	Buffer Tube material	Stainless steel
4	No. of Buffer Tubes	1 No's
5	No. of Fibers per buffer Tube	48 No's
6	Expected Cable Life	25 Years
MECHANICAL/ELECTRICAL PROPERTIES:		
7	Diameter	14.8 ±3% mm
8	Weight	480 ±5% Kg/Km
9	Total Cross-sectional Area	119.73 mm^2
10	Rated/Ultimate Tensile Strength	63.8 KN
11	Short Circuit Current Rating	15.0 KA for 0.5 Sec (112.5 KA2.sec)

STERLITE POWER TRANSMISSION LIMITED

Sterlite Power

DATA REQUIREMENTS SHEETS for OPTICAL FIBRE

DUAL-WINDOW SINGLE MODE (DW-SM)

OPTICAL PARAMETERS:		
S.No.	***Parameter***	***SPTL OFFERED***
1.	**Fiber manufacturer(s)/Type**	**STERLITE G 652D**
2.	**Attenuation Coefficient** **@ 1310 nn** **@ 1550 nm**	**≤0.35 dB/km** **≤0.22 dB/km**
3.	**Point discontinuity @ 1310nm:** **@1550nm**	**≤0.05 dB/km** **≤0.05 dB/km**
4.	**Nominal Mode Field Diameter** **@ 1310 nm**	**9.1 µm ± 0.5µm**
5.	**Chromatic Dispersion Coefficient** **@ 1310 (1288-1339) nm** **@ 1310 (1271-1360) nm** **@ 1550 nm**	**≤ 3.5 ps/nm.km** **≤ 5.3 ps/nm.km** **< 17.5 ps/nm.km**
6.	**Zero dispersion wavelength**	**(1300 – 1324) nm**
7.	**Cabled Cutoff wavelength**	**≤1260 nm**
***Physical and Mechanical Properties*:**		
8.	**Bend Performance:** **(37.5 mm radius, 100 turns) @1310 nm** **(30 mm radius, 100 turn) @1550 nm** **(16mm radius, 1 turn) @ 1550nm**	**≤ 0.05 dB** **≤ 0.05 dB** **≤ 0.50 dB**
9.	**Cladding Diameter** **(nominal ± deviation)**	**125.0 µm ± 0.7 µm**
10.	**Polarisation mode dispersion coefficient**	**≤ 0.2 ps/km^1/2**
11.	**Proof test level**	**≥ 0.69 GPa**

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