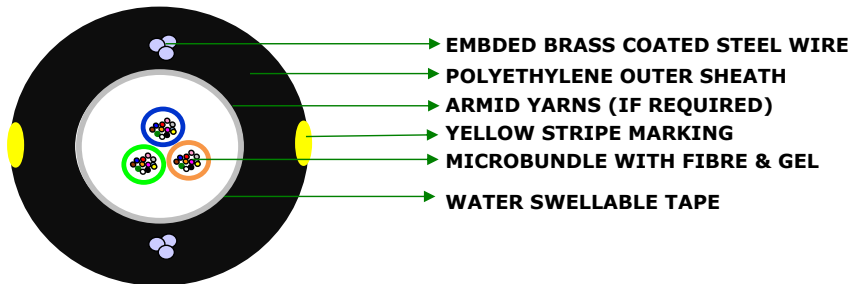


SM (G.657 A1/G.657 A2) Light Weight Overhead Optical Fibre Cable
PRODUCT INFORMATION

Fibre			
Single Mode Optical Fibres		Sterlite Fibre ITU.T - G.657 A1/G.657 A2	
Maximum Cabled Fibre Attenuation dB/Km		1310nm : 0.35; 1550nm : 0.22 & 1625nm : 0.25	
Max. Individual Fiber PMD		≤ 0.2 ps/ √km	
PMDq		≤ 0.1 ps/ √km	
Loose Tube			
Filling Gel		Thixotropic gel to prevent water ingress inside microbundle	
Core			
Microbundle		Easy strippable buffer tube	
Dummy Element		If required	
Water tightness		Water swellable tape applied longitudinally over microbundle	
Cable			
Embedded Strength Member	2 Nos.	Brass coated steel wire, 180° apart	Diameter 0.32 mm (Nom.)*3 Nos.
Peripheral Strength Member		Aramid Yarns, if required.	
Stripe Marking	2 Nos.	Yellow Stripe over outer sheath,90° to Steel wire	1.25 + 0.25 mm wide
Outer Sheath		UV proof Black Polyethylene	

CONSTRUCTIONAL DETAILS

OPTICAL FIBRE CABLE PERFORMANCE

MECHANICAL				ENVIRONMENTAL	
Breaking Load *	1350 N - 1800 N			Temp. Performance	
Installation Load	150 N	Crush Resistance	2000 N /100x100 mm	Installation	-10°C to +60°C
Minimum Bend Radius	12 D	Impact strength	10 Nm	Operating	-30°C to +70°C
		Torsion	± 360°, 100 N	Storage	-40°C to +70°C
<i>*Note : At maximum environmental loading Fibre strain shall be < 0.80%.</i>					
Water Penetration	1m head, 3m samples, 24 hrs.			Drip Test	30 cm, 70°C, 24 hr.
<i>All tests shall be carried out as per IEC 60794-1-21/22 . Standards.Change in Attenuation after and before shall be < 0.05dB/Km</i>					

INSTALLATION LOADING CONDITION

Span Length	Sag %	Environmental Loading	High Voltage Test
55 meter	1.8%	Wind speed 97km/hr., ice load 0mm	15 kVrms, 5 mins
(exceptional 68m)		Wind speed 0, ice 5mm	
<i>Minimum distance shall be 1.0 meter, between Optical Fibre Cable & 11kV Transmission Line.</i>			

PRINTING DETAILS

Cable Printing details (White - Hot Foil)	STERLITE Fibre Count F Aerial LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING
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The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

Prepared By:- Jyoti Prakash Approved By: Doc. No.:-XX/YY-F-D-S1/S2-1-AA/MM Rev.:-1.0 Date:- 02-04-2019

SM (G.657 A1/G.657 A2) Light Weight Overhead Optical Fibre Cable
CABLE CONSTRUCTION

Fibre Count	Fibres Per Tube	Tubes	Dummy Element	Colour of Loose Tubes In Sequence	Fibre colour	Diameter of Cable	Weight of Cable ($\pm 10\%$)
	Numbers	Numbers	Number			mm	kg/km
4	4	1	If required	BL.	BL, OR, GR, BR	7.0 + 0.3 mm	36
8	8	1	If required	BL.	BL, OR, GR, BR, SL, WH, RD, BK	7.0 + 0.3 mm	36
12	12	1	If required	BL.	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ.	7.2 + 0.3 mm	37
24	12	2	If required	BL, OR.		7.2 + 0.3 mm	37
36	12	3	0	BL, OR, GR		7.2 + 0.3 mm	43
48	12	4	0	BL, OR, GR, BR		7.2 + 0.3 mm	45

Outer Sheath colour: Black

Standard Length Details

Cable length (meter) 4000 $\pm 5\%$

Order Tolerance: $\pm 5\%$

Short Lengths : MAX 5 %, Customer Approval.

Prepared By:- Jyoti Prakash **Approved By:-**

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