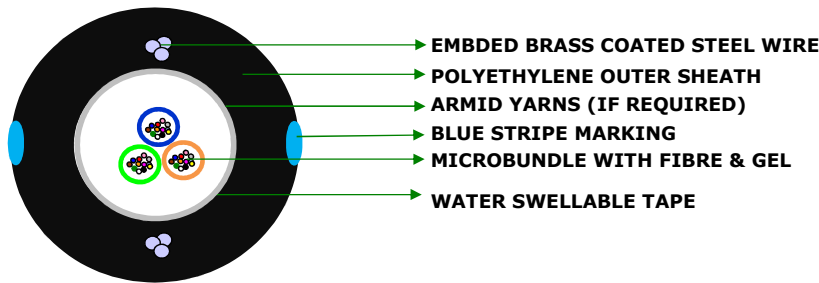


**SM (G.657 A1/G.657 A2) Light Weight Overhead Work Safe Optical Fibre Cable (Blue Stripe)**

**PRODUCT INFORMATION**

<b>Fibre</b>			
<b>Single Mode Optical Fibres</b>		<b>Sterlite Fibre ITU.T - G.657 A1/G.657 A2</b>	
Maximum Cabled Fibre Attenuation dB/Km		1310nm : 0.35; 1550nm : 0.22	
Max. Individual Fiber PMD		≤ 0.2 ps/ √km	
PMDq		≤ 0.1 ps/ √km	
<b>Loose Tube</b>			
Filling Gel		Thixotropic gel to prevent water ingress inside microbundle	
<b>Core</b>			
Microbundle		Easy strippable buffer tube	
Dummy Element		If required	
Water tightness		Water swellable tape applied longitudinally over microbundle	
<b>Cable</b>			
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.	Blue 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	
<b>Breaking Load *</b>	1350 N - 1800 N	<b>Temp. Performance</b>	
<b>Installation Load</b>	150 N	<b>Crush Resistance</b>	2000 N /100x100 mm
<b>Minimum Bend Radius</b>	12 D	<b>Impact strength</b>	10 Nm
		<b>Torsion</b>	± 360°, 100 N
*Note : At maximum environmental loading Fibre strain shall be < 0.80%.		<b>Installation</b>	-10°C to +60°C
<b>Water Penetration</b>	1m head, 3m samples, 24 hrs.	<b>Operating</b>	-30°C to +70°C
		<b>Storage</b>	-40°C to +70°C
		<b>Drip Test</b>	30 cm, 70°C, 24 hr.

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

**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	

Minimum distance shall be 1.0 meter, between Optical Fibre Cable & 11kV Transmission Line.

**PRINTING DETAILS**

<b>Cable Printing details</b> (White - Hot Foil)	STERLITE FIBRE COUNT F AERIAL LASER SYMBOL TELEPHONE SYMBOL SUREFIBRE YEAR OF MANUFACTURE LENGTH CODE METER MARKING
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The accuracy of marking shall be + 1.0%. 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:KTS      Doc. No.:-XX/YY-F-D-S1/S2-1-AA/MM/BL      Rev.:-1.1      Date:- 30-03-2021

**SM (G.657 A1/G.657 A2) Light Weight Overhead Work Safe Optical Fibre Cable (Blue Stripe)**

**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
12	12	1	If required	Blue	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua	7.1 $\pm$ 0.2 mm	37
24	12	2	If required	Blue, Orange		7.1 $\pm$ 0.2 mm	40
36	12	3	0	Blue, Orange, Green		7.1 $\pm$ 0.2 mm	43
48	12	4	0	Blue, Orange, Green, Brown		7.1 $\pm$ 0.2 mm	45

**Outer Sheath colour:** Black

**Standard Length Details**

**Cable length (meter)** 2000  $\pm$  5 %

**Order Tolerance:**  $\pm$  5 %

**Short Lengths :** MAX 5 %, Customer Approval.

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