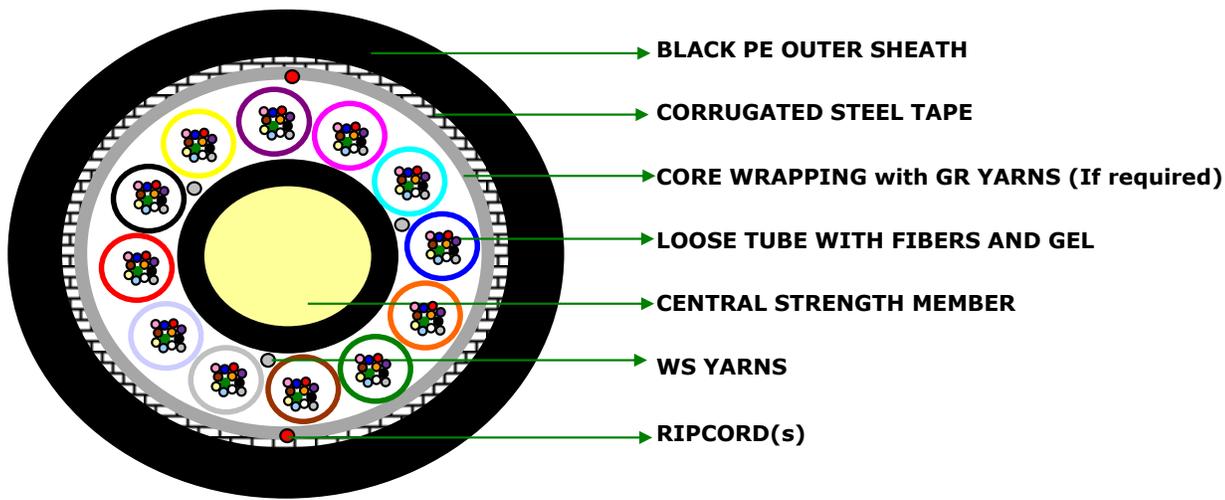


SM(G.652 D) Multi Tube Single Jacket Metallic Armour Optical Fiber Cable

PRODUCT INFORMATION

Fiber	
Single Mode Optical Fiber	Sterlite Fiber ITU.T - G.652 D
Cabled Fiber Attenuation dB/Km	1310nm : ≤ 0.36 & 1550nm : ≤ 0.23
PMDq	≤ 0.2 ps/ $\sqrt{\text{km}}$
Loose Tube	
Filling Gel	Thixotropic gel to prevent water ingress in loose tube
Tube	Thermoplastic Material
Core	
Central Strength Member	Fiber Reinforced Plastic to provide tensile strength and antibuckling properties.
Filler	Polyethylene Black
Water blocking elements	Water Swellable Yarns is added to prevent water ingress in the core of cable.
Core Wrapping	Binder and Water Blocking Tape.
Cable	
Rip Cords	Polyester Based Yarns Applied below Corrugated Steel tape
Peripheral Strength member	Glass Roving Yarns (if required to meet tensile strength)
Armouring	Corugated Steel Tape
Outer Sheathing	UV Proof Polyethylene Nominal Thickness 1.5 mm

CONSTRUCTIONAL DETAILS



Typical Construction Diagram - Not To Scale

OPTICAL FIBER CABLE PERFORMANCE

MECHANICAL		ENVIRONMENTAL		
Max. Tensile Strength	2700 N	Crush Resistance	2500 N/100 mm	
Bending Radius		Impact strength	25 Nm	
-Dynamic	20 D	Torsion	$\pm 180^\circ$	
-Static	15 D			
Water Penetration	1m head, 3m samples, 24 hrs		Drip Test	30 cm, 70°C, 24 hr

All tests shall be carried out as per IEC Standard. Change in attenuation shall be ≤ 0.05 dB.

PRINTING DETAILS

Printing details (Color - White)	STERLITE SM Fiber Count G652D ARMOUR Laser Symbol Telephone Symbol Year of Manufacture Cable ID 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 supercedes the earlier markings.

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CABLE CONSTRUCTION

Fiber Count	Fibers Per Tube	Tubes	Fillers	Color of Loose Tubes In Sequence	Fiber Color	Diameter of Cable (±5%)	Weight of Cable (±10%)
Numbers	Numbers	Numbers	Numbers			mm	kg/km
4	4	1	5	BL, F, F, F, F, F.	BL, OR, GR, BR.	10.8	113
8	8	1	5	BL, F, F, F, F, F.	BL, OR, GR, BR, SL, WH, RD, BK.	11.0	117
12	12	1	5	BL, F, F, F, F, F.	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ.	11.0	118
24	12	2	4	BL, OR, F, F, F, F.		11.0	118
48	12	4	2	BL, OR, GR, BR, F, F.		11.0	120
72	12	6	0	BL, OR, GR, BR, SL, WH.		11.0	122

Where: BL =Blue,OR =Orange, GR=Green,BR=Brown,SL=Grey(Slate), WH=White, RD=Red,BK=Black,YL=Yellow,VI=Violet,PK=Pink, AQ= Aqua. F= Filler

Note : Loose Tube Color From 13th to 15th of 2nd Layer will have black printing legend.

Filler Color: Black

Outer Sheath Color: Black

Standard Length Details

Cable length (Km) 2/4 Km ± 5 %

Order Tolerance: ± 5 %

Short Lengths : MAX 5 %, Customer Approval.

Prepared By:- Phool Singh

Approved By:-

Doc. No.:- XX/12-F-D-S3-1-BM/2.7kN

Rev.:-1.0

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