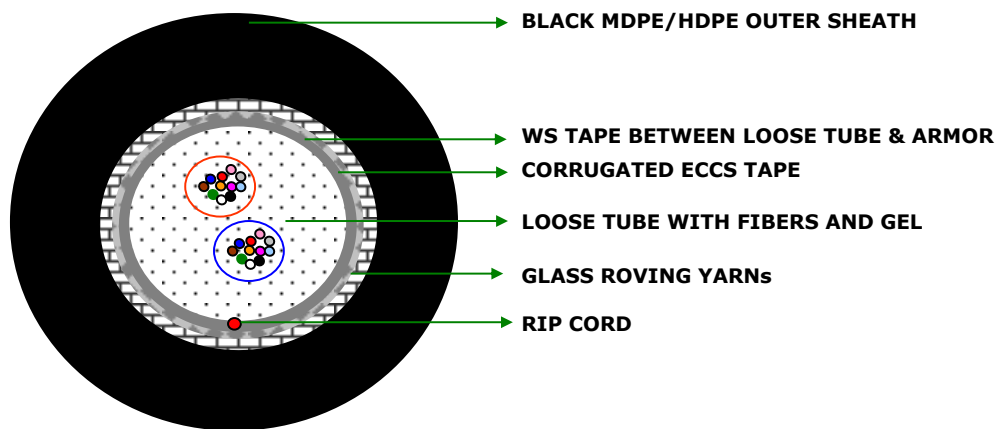


Unitube Single Jacket Metallic Armor Lite Optical Fiber Cable
PRODUCT INFORMATION

Fiber	
Single Mode Optical Fiber	Sterlite Fiber ITU.T - G.652 D
Maximum Cabled Fiber Attenuation dB/Km	1310nm : ≤ 0.36 & 1550nm : ≤ 0.23
Multi Mode Optical Fibre	MM OM2 - 50/125
Maximum Cabled Fibre Attenuation dB/Km	850nm : ≤ 3.0 & 1300nm : ≤ 1.5
Multi Mode Optical Fibre	MM OM3 - 50/125
Maximum Cabled Fibre Attenuation dB/Km	850nm : ≤ 3.0 & 1300nm : ≤ 1.5
Multi Mode Optical Fibre	MM OM4 - 50/125
Maximum Cabled Fibre Attenuation dB/Km	850nm : ≤ 3.0 & 1300nm : ≤ 1.5

Loose Tube	
Filling Gel	Thixotropic gel to prevent water ingress in loose tube
Loose Tube	Thermoplastic Material (PBTP)

Cable	
Moisture Barrier	Water Swellable Compound below armouring tape
Peripheral Strength Member	Glass Roving Yarn (if required to meet tensile)
Rip Cord	Polyester Based Twisted Yarns
Armour	Corrugated ECCS Tape
Outer Sheathing	UV Poof Black MDPE/HDPE
	Nominal Thickness 1.5 mm

CONSTRUCTION DETAILS


Typical Construction Diagram - Not To Scale

OPTICAL FIBRE CABLE PERFORMANCE

MECHANICAL		ENVIRONMENTAL	
Max. Tensile strength	1500 N	Temp. Performance	
Minimum Bend Radius		Installation	-20°C to + 60°C
-During Installation	20 D	Service	-30°C to +70°C
-After Installation	15 D	Storage	-40°C to +70°C
Crush Resistance	2000 N / 10cm	Drip Test	30 cm, 70°C, 24 hr
Impact strength	15 Nm		
Torsion	$\pm 180^\circ$		
Water Penetration	1m head, 3m samples, 24 hrs (Over Loose Tube)		

Tests shall be carried out as per IEC Standards. Change in attenuations shall be ≤ 0.05 dB/km.

CABLE PRINTING

Cable Printing details (Color - White)	STERLITE FIBER TYPE (SM G652D, 50/125 OM2, OM3, OM4) FIBER COUNT UT ARMOR 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.

Prepared By:- Phool Singh

Approved By:

Doc.No:-01/YY-F-D-S3/M2/M3/M4-1-UT-BM/1.5kN

Rev.:-1.1

Date:-26-12-2013

Unitube Single Jacket Metallic Armor Lite Optical Fiber Cable
CABLE CONSTRUCTION

Fiber Count	Fibers Per Tube	Tubes	Bundle Binder	Color of Loose Tubes In Sequence	Fiber Color	Diameter of Cable (± 0.5)	Weight of Cable (With PE) (±10%)
	Numbers	Numbers	Number			mm	kg/km
4	4	1	0	WH	BL,OR,GR,BR.	9.1	87
8	8	1	0	WH	BL,OR,GR,BR, SL,WH,RD,BK.	9.1	87
12	12	1	0	WH	BL,OR,GR,BR,SL,WH, RD,BK,YL,VI,PK,AQ.	9.1	87
24	24	1	2	WH	BL,OR,GR,BR,SL,WH, RD,BK,YL,VI,PK,AQ.	9.5	94

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(Turquoise).

Bundle Binder Color Blue,Orange.

Outer Sheath Color : Black

Standard Length Details

Cable Length : 2/4 Km ± 5 %

Order Tolerance : ± 5 %

Short Lengths : Max 5 %, Customer Approval.

Prepared By:- Phool Singh

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