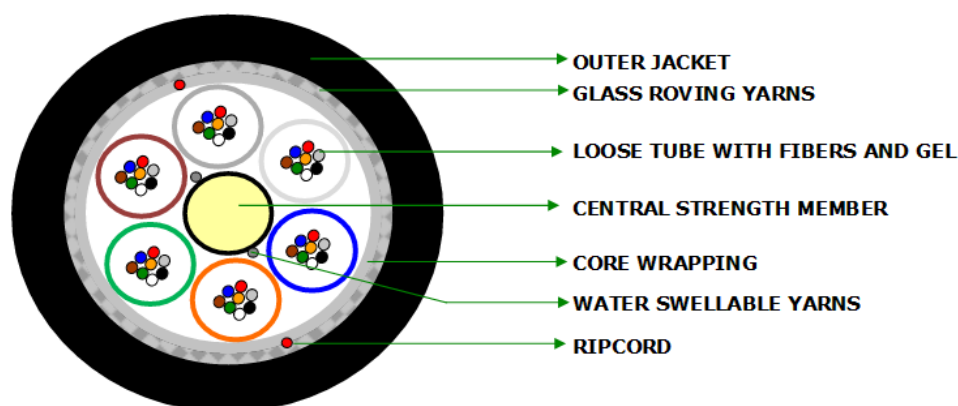


SM(G.652D) MT Single Jacket Underground Optical Fibre Cable

PRODUCT INFORMATION

Fibre	
Single Mode Optical Fibre	Fibre ITU.T - G.652 D
Maximum Cabled Fibre Attenuation dB/Km	1310nm : 0.34; 1550nm : 0.22 & 1625nm : 0.24
Average Cabled Fibre Attenuation dB/Km	1310nm : 0.33 ; 1550nm : 0.20 & 1625nm : 0.21
PMD	≤ 0.2 ps/ √km
PMD LDV	≤ 0.06 ps/ √km
Loose Tube	
Filling Gel	Thixotropic gel to prevent water ingress in loose tube
Tube	Thermoplastic Material (PBT)
Core	
Central Strength Member	Fibre Reinforced Plastic to provide tensile strength and antibuckling properties
Water blocking elements	Water Swellable Yarns are added to prevent water ingress in the core of cable
Core Wrapping	Binder and Water swellable material
Cable	
Rip Cords	2 Nos. Polyester Based Yarns Applied Below Sheath
Peripheral Strength Member	Glass Roving Yarns to meet required tensile strength & for rodent resistance
Outer Sheathing	UV Proof Black Polyethylene with anti-rodent masterbatch

CONSTRUCTIONAL DETAILS



Typical Construction Diagram - Not To Scale

OPTICAL FIBER CABLE PERFORMANCE

MECHANICAL		ENVIRONMENTAL	
Tensile Strength	4000 N	Crush Resistance	2500 N/100x100mm
Minimum Bend Radius		Repeated Bending	20 D
- During Installation	20 D	Impact Load	25 Nm
- During Operation	15 D	Torsion	±180°
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 60793 & IEC 60794-1-2 Standards. Change in attenuation shall be ≤ 0.05dB/Km

PRINTING DETAILS

Printing details (White - Hot Foil Emb.)	FTTBCo Fibre Count DUCT Laser Symbol Telephone Symbol Month & 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 supercedes the earlier markings.

Prepared By:- Tenzing K Approved By:- Doc. No.:- XX/08-F-D-S3-1-DT Rev.:-1.0 Date:- 13-03-2015

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CABLE CONSTRUCTION

Fibre Count	Fibres Per Tube	Tubes	Fillers	Color of Loose Tube	Fibre Color	Diameter of Cable (± 0.6)	Weight of Cable ($\pm 10\%$)
Numbers	Numbers	Numbers	Numbers			mm	Kg/Km
8	8	1	5	BL, F, F, F, F, F.	BL, OR, GR, BR, SL, WH, RD, BK.	10.6	95
24	8	3	3	BL, OR, GR, F, F, F.	BL, OR, GR, BR, SL, WH, RD, BK.	10.6	97
48	8	6	0	BL, OR, GR, BR, SL, WH	BL, OR, GR, BR, SL, WH, RD, BK.	10.6	99
72	8	9	0	BL, OR, GR, BR, SL, WH, RD, BK, YL.	BL, OR, GR, BR, SL, WH, RD, BK.	12.6	126
96	8	12	0	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ.	BL, OR, GR, BR, SL, WH, RD, BK.	14.2	158
144	8	18	0	1 ST LAYER : BL, OR, GR, BR, SL, WH. 2 ND LAYER : RD, BK, YL, VI, PK, AQ, BL, OR, GR, BR, SL, WH.	BL, OR, GR, BR, SL, WH, RD, BK.	14.8	166
288	8	36	0	1 ST LAYER : BL, OR, GR, BR, SL, WH. 2 ND LAYER : RD, BK, YL, VI, PK, AQ, BL, OR, GR, BR, SL, WH. 3 RD LAYER : RD, BK, YL, VI, PK, AQ, BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ.	BL, OR, GR, BR, SL, WH, RD, BK.	19.2	257

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 for 13th to 24th will have single black color intermittent stripe marking for all tube and white for black loose tube & Loose tube from 25th to 36th will have double black colour intermittent stripe marking for all tube and white for black loose tube.

Filler Color: Natural

Outer Sheath Color: Black

Standard Length Details

Cable length 4 Km \pm 5 %

Order Tolerance: \pm 5 %

Short Lengths : MAX 5 %, Customer Approval.

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Approved By:-

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