

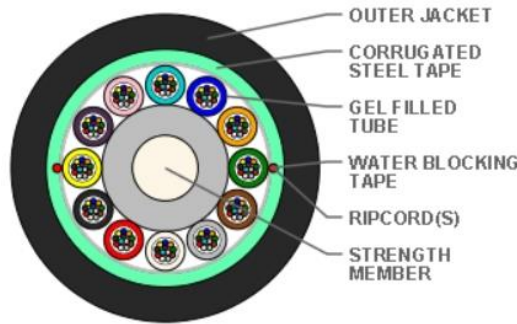
Product Name : SM (G652 D-Nova) Multitube Single Jacket Armour Lite (PE) Optical Fiber Cable
Product Code : B1XXXXS3XXGABXXXXX
Revision : 1.0

Date: 07-May-2024

Product Details

Sterlite Tech™ ARMOUR-LITE® Multitube Single Jacket Fibre Optic Cables are typically used for outside plant (OSP) applications. This cable can be installed in ducts with either pulling or blowing techniques

Construction Diagram



* Typical Construction Diagram - Not to Scale

Features & Benefits

- Steel tape armour and PE jacket provide rodent protection along with improved crush and impact protection
- The Steel tape enables post installation cable locating
- Dry water-blocking technology for gel free core helps in quicker end preparation
- easily removable rugged thermoplastic jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant

Specifications

Physical Characteristics						
Fibre Count	6F_12F_24F_48F_96F_144F					
Fibre Type	Sterlite Fibre ITU-T G.652 D & G657A1 (Nova)					
Cabled Fiber Attenuation (dB/km)	1310nm : <=0.34 & 1550nm : <=0.20 & 1625nm : <=0.23					
Individual PMD (ps/sqrt.km)	<= 0.2					
Fibre Color Sequence	Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow,Violet,Pink,Aqua					
Central Strength Member	FRP (Fibre Reinforced Plastic)					
Filler Color	Black					
Core wrapping & Water blocking Element	Water blocking tape & Water blocking yarns					
Metallic Armouring	Corrugated ECCS Steel Tape					
No of Ripcords Below Tape	2					
Outer Sheath Material	UV Proof Black HDPE/MDPE					
Cable Characteristics						
Fibre Count	Fibre Per Tube	Tubes	Fillers	Tube Color sequence	Cable Diameter mm (+/- 5%)	Cable Weight kg/km (+/- 10%)
6	6	1	4	Blue, Filler, Filler, Filler, Filler	10.2	100
12	6	2	3	Blue, Orange, Filler, Filler, Filler	10.2	100
24	6	4	1	Blue, Orange, Green, Brown, Filler	10.2	100
48	12	4	2	Blue, Orange, Green, Brown, Filler, Filler	10.8	110
96	12	8	NIL	Blue, Orange, Green, Brown, Slate, White, Red, Black	11.5	125
144	12	12	NIL	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua.	14.0	170

Mechanical & Environmental Characteristics

Cable Characteristics	Testing Standard	Cable Performance
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	2000
Impact Strength(Nm)	IEC-60794-1-21-E4	10 Nm, 1 Impact at 3 Points
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius	IEC-60794-1-21-E11	20 D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24 h
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 h
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be $\leq 0.15\text{ dB/km}$
Installation		-10°C to +70°C
Operation		-30°C to +70°C
Storage		-30°C to +70°C

Note : All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be $\leq 0.05\text{ dB/km}$ for Single Mode fibre and $\leq 0.3\text{ dB/km}$ for Multimode fibre.

Cable Performance Standards Packing and Lengths

- Drum Type : Wooden Drums
- Length Multiple (km) : 2/4 KM ± 5% As per customer approval
- Order Tolerance : ± 5%
- Short Lengths **Printing** : Max 5%, Customer Approval

Details

Printing : STERLITE SM XXF G652 D ARMOUR LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING

XX-Fiber Count

Note : 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.

Revision History

Revision No.	Date	Description
1.0	07-May-2024	Initial Issue