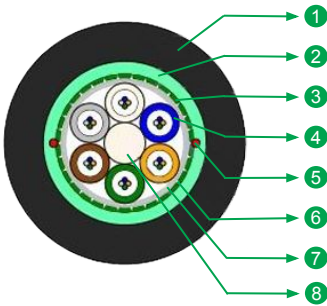


# ARMOUR-LITE

## Multitube Single Jacket Fibre Optic Cables



1 OUTER JACKET

2 CORRUGATED STEEL TAPE

3 GLASS ROVING YARNS

4 GEL FILLED TUBE

5 RIPCORD(S)

6 WATER BLOCKING TAPE

7 POLYFILM

8 STRENGTH MEMBER

\* Typical Construction Diagram - Not to Scale

### Features & Benefits

- Steel tape armor and PE jacket provide rodent protection along with improved crush and impact protection
- The Steel tape enables post installation cable locating
- Wet water-blocking technology helps to avoid in water ingress
- Easily removable rugged thermoplastic jacket
- Tensile and crush resistant

### Product Details

STL™ 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.

### Cable Performance Standards

The cables comply to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH.

## Printing Details

STERLITE TELEPHONE SYMBOL LASER SYMBOL BSNL BSNL LOGO 24F G652D SM LT ARMOUR  
YEAR OF MANUFACTURE LENGTH CODE METER MARKING

**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.

## Specifications

| Physical Characteristics               |   |
|--|---|
| Fibre Count                            | 24  |
| Fibre Type                             | Sterlite Fibre ITU-T G.652 D  |
| Maximum Cabled Attenuation (dB/km)     | 1310nm : 0.36 ,1550nm : 0.23 & 1625nm : 0.26  |
| Fibres per Tube & Fibre Color Sequence | 4 & Blue,Orange,Green,Natural   |
| Tube Material                          | PBT & Thixotropic gel to prevent water ingress in loose tube  |
| Tube Size (mm)                         | Tube OD 1.9 +/- 0.1, ID 1.2mm Min   |
| Central Strength Member                | FRP (Fibre Reinforced Plastic) 2.0 + 0.1,-0.0 mm (Nominal) to provide tensile strength and ant buckling properties. |
| No of Tubes in Layer                   | 6   |
| Tube Color Sequence                    | Blue,Orange,Green,Brown,Slate,White   |
| Water blocking compound                | Cable flooding gel is added in interstices of core to prevent water ingress in cable core                           |
| Core wrapping                          | Binder and Polyester Tape & Water Swellable Tape  |
| Peripheral Strength Members            | Glass Yarns to meet the required tensile strength (>5.41 Kg/Km)   |
| Metallic Armoring                      | Corrugated ECCS Tape (0.15+0.01 mm for steel tape & 0.05+0.01 mm for co-polymer)                                    |
| No of Ripcords Below Steel Tape        | 2   |
| Outer Sheath Material                  | UV Proof Black HDPE   |
| Minimum Sheath Thickness (mm)          | 1.8   |
| Nominal Cable Dimensions (mm)          | 11.5+/- 0.5   |
| Nominal Cable Weight (kg/km)           | 130±10%   |

| Mechanical & Environmental Characteristics |                    |  |
|--|--------------------|--|
| Cable Characteristics                      | Testing Standard   | Cable Performance  |
| Tensile Strength (N)                       | IEC-60794-1-21-E1  | 2.5xWx9.81 N or 2700N whichever is lower(W=1Km cable weight in Kg) |
| Crush Resistance (N/100 mm)                | IEC-60794-1-21-E3  | 2000N 100x100 mm   |
| Impact Strength(Nm)                        | IEC-60794-1-21-E4  | 50N, 0.5 m, 10 impacts   |
| Torsion                                    | IEC-60794-1-21-E7  | 2m,100N  |
| Cable Bend Test (mm)                       | IEC-60794-1-21-E11 | 20 D (D is cable diameter)   |
| Repeated Bending                           | IEC-60794-1-21-E6  | 20 D 30 cycle (D is cable diameter)                                |
| Kink                                       | IEC-60794-1-21-E10 | 10 times Min Bending Radius (20D)                                  |
| Water Penetration Test                     | IEC-60794-1-22-F5  | 1m head, 3m samples, 24 hrs  |
| Drip Test                                  | IEC-60794-1-21-E14 | 30 cm, 70°C, 24 hr   |
| Temperature Performance                    | IEC-60794-1-22-F1  | Max. change in attenuation shall be $\leq$ 0.15 dB/km              |
| Installation                               |                    | -10°C to +60°C   |
| Operation                                  |                    | -20°C to +70°C   |
| Storage                                    |                    | -20°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 dB/km for Single Mode fibre and  $\leq$  0.3 dB/km for Multimode fibre.

## Specifications

| Drum Type    | Length Multiple (in feet) | Order Tolerance | Short Lengths             |
|--------------|---------------------------|-----------------|---------------------------|
| Wooden Drums | 2 $\pm$ 5%                | $\pm$ 5%        | Max 5%, Customer Approval |

For additional information please contact your sales representative.

You can also visit our website at [www.stl.tech](http://www.stl.tech)

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