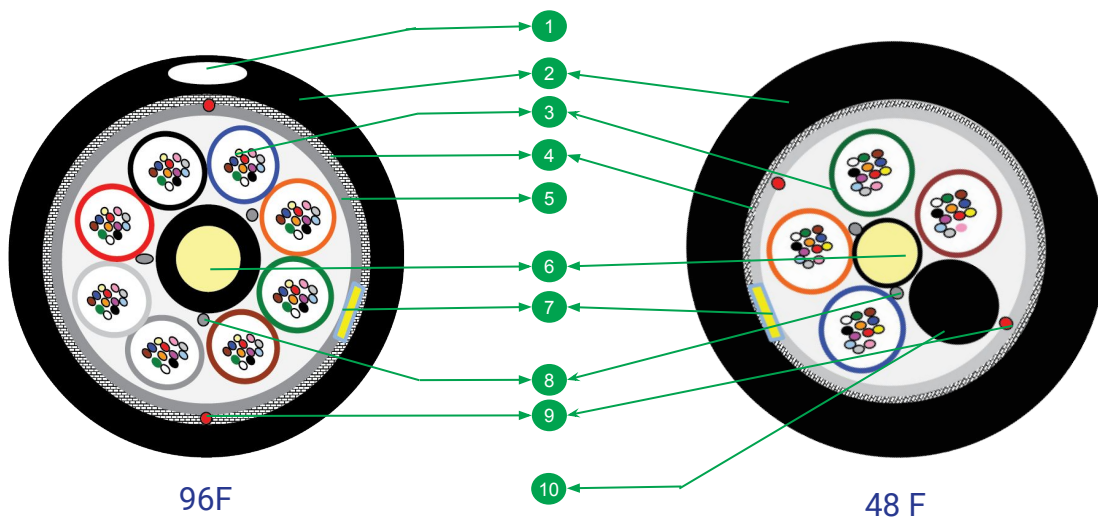


# ARMOUR-LITE-96F-48 F SM (G657A1 NOVA)

Multitube Single Sheath Armor Lite Optical Fibre Cable



- |                                 |                                |                                 |                         |
|---------------------------------|--------------------------------|---------------------------------|-------------------------|
| 1 WHITE STRIPE MARKING          | 2 BLACK HDPE OUTER SHEATH      | 3 LOOSE TUBE WITH FIBER & JELLY | 4 CORRUGATED STEEL TAPE |
| 5 BINDER & WATER SWELLABLE TAPE | 6 CENTRAL STRENGTH MEMBER(FRP) | 7 IDENTIFICATION TAPE           | 8 WATER SWELLABLE YARNS |
| 9 RIPCORD(s)                    | 10 FILLER                      |                                 |                         |

## 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 48F G657A1 NOVA ARMOUR OFC LASER SYMBOL TELEPHONE SYMBOL MONTH & YEAR OF MANUFACTURE  
BHARTI AIRTEL LIMITED BATCH ID METER MARKING

**Note:**The accuracy of marking shall be +0.5%,-0%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings..

## Specifications

Physical Characteristics		
Fibre Count	96	48
Fibre Type	Sterlite Fiber, ITU.T - G.657A1 or Superior	
Maximum Cabled Attenuation (dB/km)	1310nm : 0.34 & 1550nm : 0.20 & 1625nm : 0.23	
Fibres per Tube   Fibre Color Sequence	12   Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua.	
Tube Material	Thermoplastic Material (PBTP/PP)	
Tube Size (mm)	2.1± 0.2 mm Nominal Diameter	
Central Strength Member	Fiber Reinforced Plastic (Bare FRP or upjacketed FRP) for tensile strength & anti buckling properties	
No of Tubes in Layer	8 Nos.	4 Nos.
Tube Color Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black.	Blue, Orange, Green, Brown.
Water blocking compound	Water Swellable Yarns are added to cable core to prevent water ingress in cable core.	
Core wrapping	Binder and Water Swellable Tape	
Metallic Armoring	Corrugated Steel Tape 0.125+0.005 mm Nominal Thickness	
No of Ripcords Below Steel Tape	2	
Outer Sheath Material	UV Proof Black High Density Polyethylene	
Minimum Sheath Thickness (mm)	2.4	
Nominal Cable Dimensions (mm)	12.5 ± 5%	11.2± 5%
Nominal Cable Weight (kg/km)	135 ± 10%	110 ±10%

Mechanical & Environmental Characteristics			
Cable Characteristics	Testing Standard	96F	48F
		Cable Performance	
Tensile Strength (N)	IEC-60794-1-21-E1	1.3 W @ 0.25% Fiber Strain	
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	4000 N / 100*100 mm, No Fiber Break, No Jacket Damage	
Impact Strength(Nm)	IEC-60794-1-21-E4	50 N, 0.5m, No Fiber Break, No Jacket Damage	
Torsion	IEC-60794-1-21-E7	±180°, 100N, 2m	
Cable Bending Radius	IEC-60794-1-21-E11	20D, No FRP Break, No Tube Kink, No Jacket Damage	
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 <math>\leq 0.15 \text{ dB/km}</math>	
Installation		-20°C to +70°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 <math>\leq 0.05 \text{ dB/km}</math> for Single Mode fibre and <math>\leq 0.3 \text{ dB/km}</math> for Multimode fibre.

## Specifications

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	4 Km + 5%, 2 Km + 5%	± 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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