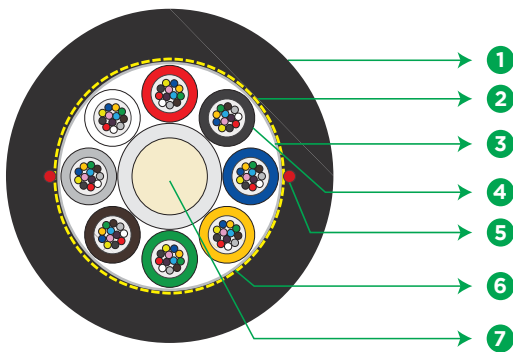


Aerial-Lite

SM (Stellar) ADSS Multitube Single Sheath
OFC - 70M Span



1 OUTER JACKET

2 GLASS ROVING YARN

3 ARAMID YARNS

4 GEL FILLED TUBE

5 RIPCORDS

6 WATER BLOCKING TAPE

7 STRENGTH MEMBER

** Typical Construction Diagram - Not to Scale*

Features & Benefits

- This cable can be designed to suit specific requirements of span length, wind speed and other loading conditions
- 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

Product Details

STL Multi-tube Single Jacket ADSS cable can be installed in short to medium span applications. High strength yarns are evenly distributed over the core to provide the required tensile strength for aerial self-supporting applications. An overall thermoplastic jacket provides the cable with both mechanical and environmental protection. This cable is suitable for aerial to duct /underground transitions.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T.

Printing Details

Printing: STERLITE BHARTI AIRTEL LIMITED SMF XXF YEAR OF MANUFACTURE LENGTH CODE METER MARKING
where XX is Fibre 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.

Specifications

Physical Characteristics	
Fibre Count	48 & 96
Fibre Type	Sterlite Stellar (G.657.A1 + G.657.A2+ G.652.D)
Maximum Cabled Attenuation (dB/km)	1310nm : 0.34; 1383nm : 0.34; 1550nm : 0.20 & 1625nm : 0.23
PMD LDV (ps/sqrt.km)	</= 0.06
Fibre Macro Bend Losses (dB)	1 turn 7.5 mm radius 1550nm ≤ 0.5, 1625nm ≤ 1.0 1 turn 10 mm radius 1550nm ≤ 0.1, 1625nm ≤ 0.2 10 turn 15 mm radius 1550nm ≤ 0.03, 1625nm ≤ 0.1
Loose tube Material & water blocking element	PBT & Filling Gel
Fibres per Tube	12
Fibre Color Sequence	Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow,Violet,Pink,Aqua
Filler	Black
Central Strength Member	FRP (Fibre Reinforced Plastic)
Peripheral Strength Members	Aramid Yarn shall be added inside core as per tensile requirement
Identification Tape	Printing tape will be added
Core wrapping & water blocking element	Water blocking tape & water swellable yarns
Peripheral Strength Members	Glass Yarn shall be added to provide full coverage ((360°) & tensile load requirement, below outer sheath
Outer Sheath Material	UV Proof Black Polyethylene with added Anti squirrel & Anti-monkey additive
No of Ripcords Below Outer Sheath	2

Cable Characteristics								
STL Part Code	Fibre Count	Fibre Per Tube	Tubes	Fillers	Tube Color Sequence	Cable Diameter mm (± 0.5)	Cable Weight Kg/km (± 10%)	Max. Tensile Strength (N)
A10096C108FAP10200	96	12	8	NIL	Blue, Orange, Green, Brown, Slate, White, Red, Black	10.7	98	2100
A10048C104GAP10100	48	12	4	2	Blue, Orange, Green, Brown, Slate, White, Red, Black	10.2	82	2000

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard Method
Crush Resistance (N/100mm)	2000	IEC-60794-1-21-E3
Impact Strength(Nm)	15	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius	20D	IEC-60794-1-21-E11
Water Penetration Test	1m waterhead, 3m samples, 24 h	IEC-60794-1-22-F5
Drip Test	30 cm, 70° C, 24 hr	IEC-60794-1-21-E14
Temperature Performance	Max. change in attenuation shall be ≤ 0.15 dB/km	IEC-60794-1-22-F1
Installation	-10° C to +60° C	
Operation	-40° C to +70° C	
Storage	-40° 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.

		Loading Conditions		
Operating Condition	Span Length (m)	Installation Sag (%)	Ice Thickness (mm)	Wind Speed (km/h)
NESC Light	70	2	0	97

Packing and Lengths

Drum Type	Length Multiple (in km)	Order Tolerance	Short Lengths
Wooden Drums	4 ± 5%	±5%	Max 5%, Customer Approval

01/102023

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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