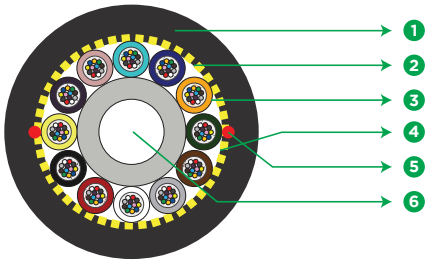
Product Specification

Aerial-Lite

Multitube Gel Filled ADSS OFC
12F - 144F | OH Lite - G.652.D Single Mode Fibre



1 OUTER JACKET

2 ARAMID YARNS

3 GEL FILLED TUBE

4 WATER BLOCKING TAPES

4 RIPCORD(S)

4 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 AERIAL-LITE Gel Filled Multi-tube Single Jacket ADSS Cables are smaller in diameter and lighter in weight that enables them to be installed aerially in moderate field conditions. This cable is a stranded loose tube cable with optical fibres placed inside robust buffer tubes stranded around a fibre reinforced plastic (FRP) central strength member. In addition to optical fibres, the buffer tubes contain thixotropic gel, and the cable core is surrounded with water-swellable tape to prevent water ingress in the interstices of the cable core. High strength yarns are distributed over the core to provide the required tensile strength for aerial self supporting applications.

Cable Performance Standards

Cable complies with the following standards IEC 60793, IEC 60794, ITU-T, RoHS and REACH.

Printing Details

Printing: STERLITE SM FIBRE TYPE “FIBRE COUNT” ADSS OFC LENGTH LASER SYMBOL TELEPHONE SYMBOL “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	
Maximum Cabled Fibre Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD LDV (ps/sqrt.km)	≤ 0.1
Fibres per Tube	12
Central Strength Member	FRP (Fibre Reinforced Plastic)
Tube Material	Thermoplastic material
Fillers (if required)	Black Thermoplastic Material
Water Blocking Elements	Water Swellable Yarns and Tape
Core Wrapping	Binder and Water Swellable Tape
Peripheral Strength Members	High Strength Aramid Yarns
No of Ripcords Below Tape	2
Outer Sheath Material	UV Proof Black Polyethylene

Fibre Color Sequence (as per EIA/TIA 598C)											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Turquoise

Cable Characteristics							
Product Code	**Fibre Count**	**Tubes**	**Tube Color Sequence**	**No. of Fillers**	**Cable Diameter mm (± 0.3)**	**Cable Weight (Kg/km) ± 10%**	**Max. Tensile Strength N**
A10012S301GAP100L2	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	11.0	90	3200
A10024S302GAP100L2	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	11.0	90	3200
A10048S304GAP100L2	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	11.0	90	3200
A10072S306GAP100L2	72	6	Blue, Orange, Green, Brown, Slate, White	0	11.0	90	3200
A10096S308GAP100L2	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	13.0	115	3800
A10144S312GAP100L2	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua	0	16.5	200	4800

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standard Method**
Tensile Strength (N)	As mentioned in above tables	IEC-60794-1-21-E1
Crush Resistance (N/cm)	2000	IEC-60794-1-21-E3A
Impact Strength(Nm)	5	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius	20 D	IEC-60794-1-21-E11
Water Penetration Test	1m waterhead, 3m samples, 24 h	IEC-60794-1-21-E11
Temperature Performance	Max. change in attenuation shall be ≤ 0.15 dB/km	IEC-60794-1-21-E11
Installation	-10° C to +70° 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 ≤ 0.05 dB/km for Single Mode fibre.

Loading Condition				
Loading Conditions	**Installation Sag**	**Span Length (mm)**	**Wind Speed (km/hr)**	**Ice Load (mm)**
NESC Light	1%	150	97	0

Packing and Lengths

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

For additional information please contact your sales representative.
You can also visit our website at www.stl.tech