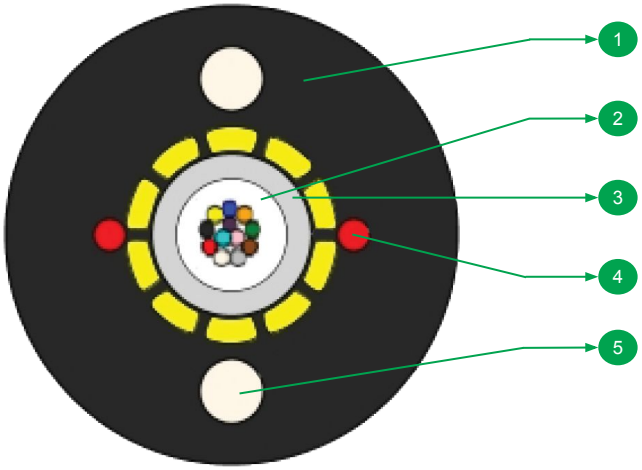
Product Specification

Aerial Drop Lite

12F G652D Unitube Single Jacket



1 OUTER JACKET
2 ARAMID YARNS
3 GEL FILLED TUBE
4 RIP CORD(S)
5 STRENGTH MEMBERS

Features & Benefits

- This cable can be designed to suit specific requirements of span length, wind speed and other loading conditions.
- Easily removable rugged thermoplastic jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant

Product Details

STL Uni-tube Single Jacket ADSS cable can be installed in short to medium span applications. High strength yarns are evenly distributed over the core & Embedded FRP to provide the required tensile strength for aerial self-supporting applications. An overall thermoplastic jacket provides the cable with both mechanical and environmental protection.

Cable Performance Standards

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

Printing Details

STL SM 2F G652D AERIAL LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTHCODE 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	2~12F
Fibre Type	STL Fibre ITU-T G.652.D
Maximum Cabled Fibre Attenuation (dB/km)	1310nm: 0.36 & 1550nm: 0.23
Individual PMD (ps/sqrt.km)	</= 0.2
PMD LDV (ps/sqrt.km)	</= 0.1
Fibres per Tube	2-12
Peripheral Strength Members	High Strength Aramid Yarns
Outer Sheath Material	UV Stabilized Black Polyethylene
No of Ripcords Below Outer Sheath	2
Embedded Strength Member	FRP (Fibre Reinforced Plastic)
Nominal Cable Dimensions (mm)	5.5±0.2
Nominal Cable Weight (kg/km)	25±10%

Fiber Color Sequence (to be defined)[1]												
Blue	Orange	Green	Brown	Slate	Grey	White	Red	Black	Yellow	Violet	Pink	Turquoise

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Testing Standard Method**	**Cable Performance**
Tensile Strength (N)	IEC-60794-1-21-E1	500
Crush Resistance (N/mm)	IEC-60794-1-21-E3	1000
Impact Strength (Nm)	IEC-60794-1-21-E4	10
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	10 D
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m samples, 24 h (Over the Loose Tube)
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 </= 0.15 dB/km
Installation		-20°C to +50°C
Operation		-30°C to +60°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.

Packing and Lengths

Packing Type	Length Multiple (km)	Order Tolerance	Short Lengths
Coil Packing	2km ± 5%	± 5%	Max 5%, Customer Approval

Note: Change in attenuation after and before testing shall be </= 0.1 dB/km.

Loading Conditions								
	SAG TENSION CHART ROUND DROP AERIAL CABLE							
	NESC Light		NESC Medium		NESC Heavy		STL Proposal	
	Ice Thickness	Wind Speed	Ice Thickness	Wind Speed	Ice Thickness	Wind Speed	Ice Thickness	Wind Speed
	0 mm	97 KMPH	6.35 mm	64 KMPH	12.7 mm	64 KMPH	0 mm	65 KMPH
Installation Sag	2.0%	2.5%	2.50%	3.0%	2.5%	3.0%	1.50%	2.0%
Span length(m)	< 25	< 30	< 20	< 25	< 12	< 15	< 40	< 50
Operation Sag	2.5%	3.0%	3.5%	4.0%	4.0%	5.0%	2.5%	3.0%

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For additional information please contact your sales representative.

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