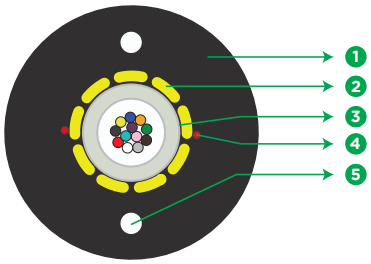
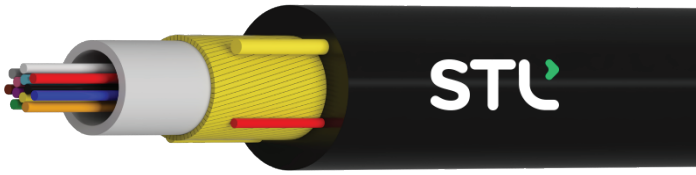
Product Specification

Drop-Lite

Unitube Single Sheath Aerial Drop OFC

2F-12F





1 OUTER JACKET 2 ARAMID YARNS 3 GEL FILLED TUBE 4 RIPCORD(S)

5 STRENGHT 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
- 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

Printing: As per Approval

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	2~12
Fibre Type	SM - G.657.A1
Maximum Cabled 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 as per Fiber Count
Fibre Color Sequence	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
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)	5.8 ± 0.5
Nominal Cable Weight (kg/km)	25 ± 10%

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standard**
Tensile Strength (N)	500	IEC-60794-1-21-E1
Crush Resistance (N/100 mm)	1000	IEC-60794-1-21-E3
Impact Strength(Nm)	10	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius (During Installation)	20 D	IEC-60794-1-21-E11
Min. Bend Radius (After Installation)	10 D	IEC-60794-1-21-E11
Water Penetration Test	1m waterhead, 3m samples, 24 h (Over The Loose Tube)	IEC-60794-1-22-F5
Drip Test	30 cm, 70ºC, 24 h	IEC-60794-1-21-E14
Temperature Performance	Max. change in attenuation shall be </= 0.15 dB/km	IEC-60794-1-22-F1
Installation	-20ºC to +50ºC	
Operation	-30ºC to +60ºC	
Storage	-40ºC to +70ºC	

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 and </= 0.3 dB/km for Multimode fibre.

Mechanical & Environmental Characteristics						
Operating Condition	**Span Length (mtr)**	**Installation Sag(%)**	**Ice Load (mm)**	**Wind Speed (km/hr)**	**Max. Installation Tension(N)**	**Max. Allowable Tension(N)**
NESC Light	40	1.5	0	65	83	500

Packing and Lengths

Drum Type	Length Multiple (kms)	Order Tolerance	Short Lengths
Wooden Drums	2 ± 5%	±5%	Max 5%, Customer Approval

Ordering Information

Product type		Fibre count	Fibre type		Tube/Bundle Count		Cable Core type	Tube Color Sequence	Jacket type		Running number		Special requirement	
F	1	Refer #1	S	1	0	1	G	U	P	1	0	0	0	0

Other Fibres counts and types may be available, please create product code from the table below.

#1 Fibre count by indicating the corresponding number from 0002 to 0012.

01/042023