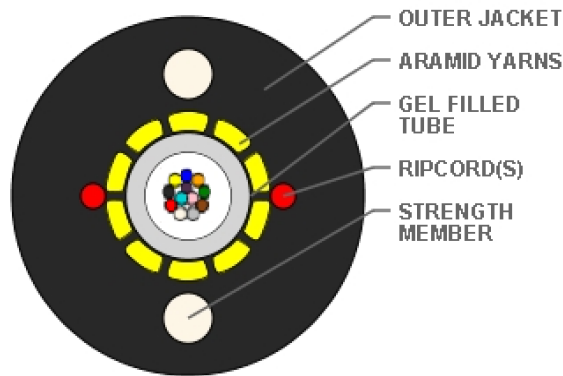


Product Name	: 2 ~ 12F G652D Unitube Single Jacket Aerial Drop Lite Optical Fiber Cable	Date	: 29-APRIL-2024
Product Code	: UA00XXFS301TGP1XXX		
Revision	: 1.0		

Product Details

Sterile Tech 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.

Construction Diagram



* 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.

Specifications

Physical Characteristics	
Fibre Count	2~12F
Fibre Type	Sterlite Fibre ITU-T G.652.D
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
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)	5.5±0.2
Nominal Cable Weight (kg/km)	25±10%

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	500
Crush Resistance (N/100 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 $\leq 0.15\text{ dB/km}$
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 $\leq 0.05\text{ dB/km}$ for Single Mode fibre.

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%

Cable Performance Standards

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

Packing and Lengths

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

Printing Details

Printing : STERLITE SM 2F G652D AERIAL 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.

Revision History

Revision No.	Date	Description
1.0	29-April-2024	Initial Issue

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