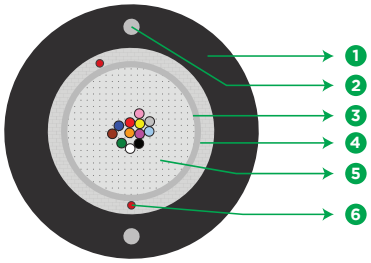
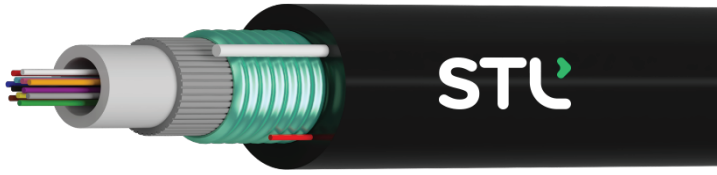
Product Specification

Armor-Lite

Unitube Single Jacket Armored OFC
2F-24F





1. BLACK OUTTER SHEATH
2. EMBEDDED STRENGHT MEMBER
3. WATER BLOCKING TAPES BETWEEN TUBE & ARMOR
4. CORRUGATED STEEL TAPE
5. LOOSE TUBE WITH FIBERS & GEL
6. RIPCORD

** Typical Construction Diagram - Not to Scale*

Features & Benefits

- Steel tape adds to crush resistance as well as can be used as a cable locator after installation
- Cables are rodent protected
- Easily removable rugged jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters

Product Details

STL ARMOR-LITE Unitube Single Jacket Steel Tape Armoured Cables is a central tube cable using optical fibres presented in loose tube and surrounded by Steel Tape Armor. To protect the optical fibres from water ingress, the tube is filled with a thixotropic gel, and is enclosed in a thermoplastic sheath. These cables can be used for outdoor applications in ducts or aerial drop for access and distribution for campus/ between and within buildings.

Cable Performance Standards

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

Printing Details

Printing: As per Customer Request

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	2~24				
Fibre Type	SM - G.657.A1, MM - OM3/OM4				
Maximum Cabled Attenuation (dB/km)	**Fiber type**	**Maximum Cabled Fiber Attenuation dB/km**			
		850nm	**1300nm**	**1310nm**	**1550nm**
	G657A1	-	-	< 3.5	< 3.5
	OM3	< 3.0	Fiber type	-	-
	OM4	< 3.0	Fiber type	-	-
Tube Material	Thermoplastic Material				
Moisture Barrier	Water Blocking Tape below the steel tape				
Metallic Armouring	Corrugated Steel Tape				
Embedded Strength Member	Steel Wire to provide tensile strength and anti-buckling properties.				
No of Ripcords	2				
Outer Sheath Material	UV protected PE(Polyethylene)				

Cable Characteristics								
Fiber Count	**Fibre Per Tube**	**No. of Tubes**	**Tube Colour**	**Sheath Colour**	**Fibre Colour**	**Cable Diameter (mm)**	**Weight of Cable (kg/km)**	**Cable Length in one Reel (Km)**
2~12	2~12	1	White	Black	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ.	9.2 ± 0.5	93 ± 10%	2/4 ± 5%
24	24	1	White	Black	BL, OR, GR, BR, SL, WH, RD, BK, YL, VI, PK, AQ, BL*, OR*, GR*, BR*, SL*, WH*, RD*, NT*, YL*, VI*, PK*, AQ*.	9.2 ± 0.5	93 ± 10%	2/4 ± 5%

Note : Where BL=Blue, OR=Orange, GR=Green, BR=Brown, SL=Slate, WH=White, RD=Red, BK=Black, YL=Yellow, VI=Yellow,PK=Pink, AQ=Aqua,NT= Natural & *=Ring Marking over the Fiber

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standard**
Tensile Strength (N)	Installation - 2700N & Operational - 900N	IEC-60794-1-21-E1
Crush Resistance (N/100 mm)	2200	IEC-60794-1-21-E3
Impact Strength (Nm)	25	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 for SM & </= 0.5 dB/km for MM Fiber type	IEC-60794-1-22-F1
Installation	-20ºC to +60ºC	
Service & 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 & </= 0.3 dB/km for Multi-Mode Fibre.

Packing and Lengths

Drum Type	Length Multiple (kms)	Order Tolerance	Short Lengths
Wooden Drums	2/4 ± 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	
G	1	Refer #1	Refer #2	0	1	G	U	B	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 0024.

#2 Fibre code corresponding to requested fibre type among following options:

Fibre Code		Fiber Type
S	1	G.657.A1
M	3	OM3
M	4	OM4

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