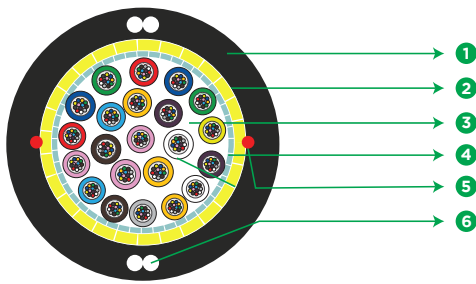


# Yoga-Lite

Multitube Gel Filled Duct OFC

12F - 144F | Bow Lite(E) - G.657.A2 Single Mode Fibre



1 OUTER JAKET

2 ARAMID YARNS

3 GEL FILLED TUBE

4 WATER BLOCKING TAPE

5 RIPCORD(S)

6 STRENGTH MEMBER

\* Typical Construction Diagram - Not to Scale

## Features & Benefits

- Reduced diameter micro- modules manufactured from soft and flexible elastomeric material
- Diametrically opposed embedded strength members provides excellent crush protection performance
- Fibre micro-modules are kink resistant and easily removed without the need for tools
- Fast and easy midspan access

## Product Details

YogaLite Single Jacket Cable by STL is based on micro-module technology to create an optimized design suitable for use in Duct/Aerial scenarios. The micro module unit consist of groups of fibres protected by an easily strippable and flexible thermoplastic material and filled with thixotropic compound. These microstructures are surrounded with water swelling elements to protect against moisture ingress, and are constrained in a thermoplastic sheath, which is provided with embedded strength members to protect from buckling.

## Fibres and Cable Performance Standards

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

## Printing Details

Printing: STERLITE SM G657A2 FIBRE TYPE YOGALITE D/A LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURING LENGTH CODE METER MARKING.

**Note:** The accuracy of marking shall be + 0.5%.

## Specifications

Physical Characteristics	
Fibre Count	12-144
Fibre Type	STL Fibre ITU-T G.657 A2
Maximum Cabled Attenuation (dB/km)	1310nm : 0.36, 1550nm : 0.23, 1625nm : 0.26
Link Design PMD (ps/sqrt.km)	≤ 0.1
Fibres per Tube	12
Peripheral Strength Members	High Strength Aramid Yarns
No of Ripcords Below Outer Sheath	2
Embedded Strength Member	Megabond FRP (Fibre Reinforced Plastic)
Outer Jacket Material	UV Proof Black Polyethylene

### Fibres Colour Sequence (as per DIN/VDE 0888)<sup>1,2</sup>

Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Pink	Orange
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**Note:** <sup>1</sup>The tubes 13 to 24, when present, have a black single intermittent ring stripe marking with width of 2 to 3 mm.  
<sup>2</sup>Other fibres colour sequences are available on demand, prior approval.

### Cable Characteristics

Product Code	Fibre count	Fibre Type	No. of Tubes	Cable Diameter (mm) ±5%	Cable Weight (kg/km) ±10%	Max. Tensile Strength (N)
H10006S201GFP10000	6	G.657 A2	1	6.2	30	620
H10012S202GFP10000	12	G.657 A2	2	7.0	40	840
H10024S204GFP10000	24	G.657 A2	4	8.0	52	1080
H10036S206GFP10000	36	G.657 A2	6	8.5	58	1200
H10048S208GFP10000	48	G.657 A2	8	9.0	64	1300
H10072S212GFP10000	72	G.657 A2	12	10.0	74	1550
H10096S216GFP10000	96	G.657 A2	16	11.0	90	1860
H10144S224GFP10000	144	G.657 A2	24	13.0	115	2400
H10012S201GFP10000	12	G.657 A2	1	6.5	35	740
H10024S202GFP10000	24	G.657 A2	2	7.5	42	880

## Cable Characteristics

Product Code	Fibre count	Fibre Type	No. of Tubes	Cable Diameter (mm) ±5%	Cable Weight (kg/km) ±10%	Max. Tensile Strength (N)
H10048S204GFP10000	48	G.657 A2	4	8.5	57	1200
H10072S206GFP10000	72	G.657 A2	6	9.5	67	1400
H10096S208GFP10000	96	G.657 A2	8	10.5	82	1680
H10144S212GFP10000	144	G.657 A2	12	11.0	96	2000
H10288S224GFP10000	288	G.657 A2	24	13.5	128	2500
H10432S236GFP10000	432	G.657 A2	36	15.6	185	2400

## Specifications

## Mechanical &amp; Environmental Characteristics

Cable Characteristics	Cable Performance	Testing Standard Method
Tensile Strength	As per above tables	IEC-60794-1-21-E1
Crush Resistance (N/cm)	2000	IEC-60794-1-21-E3
Impact Strength(Nm)	5	IEC-60794-1-21-E4
Torsion	±180° °/m, L=80N	IEC-60794-1-21-E7
Static Bend Radius	15D	IEC-60794-1-21-E11
Kink Radius	10D	IEC-60794-1-21-E11
Water Penetration Test	1m head, 3m samples, 24 hrs, no water penetration	IEC-60794-1-22-F5
Drip Test	30 cm, 70° C, 24 hr	IEC-60794-1-21-E14
Friction co-efficient in ducts	$f \leq 0.35$	
Temperature Performance		IEC-60794-1-22-F1
Installation	-5° C to +50° C	
Operation	-30° 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  $\leq 0.05$  dB/km for Single Mode fibre.

## Packing and Lengths

Drum Type	Length Multiple (in km)	Order Tolerance	Short Lengths
Wooden Drums	2/4 ± 5% (For all Fibre Counts)	±5%	Max 5%, Customer Approval

## Ordering Information

Other Fibres counts, types and tube colours sequences may be available on request, please create product code from the table below.

Product type		Fibre count (0006 - 0432)				Fibre type		No. of active tubes (01-12)		Cable core type	Fibres/tubes colour code		Jacket type		Running number		Special requirement	
		1				2		3			4							
H	2	-	-	-	-	-	-	-	-	G	-	-	P	1	0	0	-	-

1. Fibre count by indicating the corresponding number from 0006 to 0432
2. Fibre code corresponding to requested fibre type among following options

Fibre code		Fibre type (ITU-T)	STL's Fibre Name
S	2	G.657 A2	BOW-LITE (E)

3. Number of active tubes : 01 to 12
4. Fibres and tubes colour sequence available options<sup>3</sup>

Code	Fibres and Tubes Colour Codes
A	EIA/TIA 598 C
D	DIN/VDE 0888
F	France
H	Switzerland
I	Italy
L	Hungary
M	Poland

**Note:** <sup>3</sup>other colour codes are available on demand prior STL approval

**For additional information please contact your sales representative.**

You can also visit our website at [www.stl.tech](http://www.stl.tech)

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