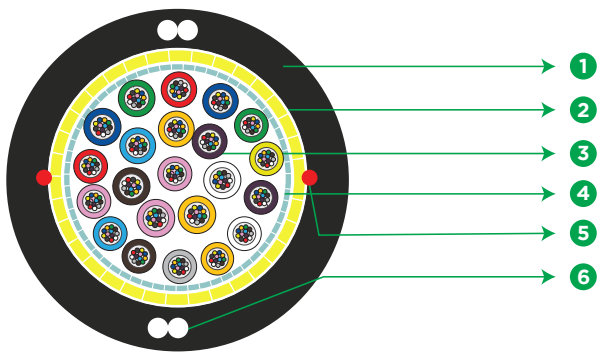


# Yoga-Lite

## Duct/Aerial OSP Single Sheath OFC



1 OUTER JAKET

2 ARAMID YARNS

3 GET 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.

### 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%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

## Specifications

Physical Characteristics	
Fibre Type	Sterlite 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	FRP (Fibre Reinforced Plastic)
Outer Sheath Material	UV Proof Black Polyethylene

### Fibres Colour Sequence <sup>1,2</sup>

Red	Green	Blue	Yellow	Violet	White	Orange	Grey	Brown	L.Green	Aqua	Pink
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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 Design with 6 Fibre/Module

Product Code	Fibre count	No. of Tubes	Embedded FRP (Nos x Size(mm))	Cable Diameter (mm) ±5%	Cable Weight (kg/km) ±10%	Max. Tensile Strength (N)
H20006S201GFP10000	6	1	2 x 1.2	6.0	30	600
H20012S202GFP10000	12	2	2 x 1.2	7.0	40	850
H20024S204GFP10000	24	4	4 x 1.2	8.0	52	1100
H20036S206GFP10000	36	6	4 x 1.2	8.5	58	1200
H20048S208GFP10000	48	8	4 x 1.2	9.0	64	1300
H20072S212GFP10000	72	12	4 x 1.2	10.0	74	1550
H20096S216GFP10000	96	16	4 x 1.2	11.0	90	1860
H20108S218GFP10000	108	18	4 x 1.2	12.0	105	2200
H20144S224GFP10000	144	24	4 x 1.2	13.0	115	2400

### Cable Design with 12 Fibre/Module

Product Code	Fibre count	No. of Tubes	Embedded FRP (Nos x Size(mm))	Cable Diameter (mm) ±5%	Cable Weight (kg/km) ±10%	Max. Tensile Strength (N)
H20012S201GFP10000	12	1	2 x 1.2	6.5	35	750
H20024S202GFP10000	24	2	2 x 1.2	7.5	42	880
H20036S203GFP10000	36	3	4 x 1.2	8.0	52	1100
H20048S204GFP10000	48	4	4 x 1.2	8.5	58	1200
H20072S206GFP10000	72	6	4 x 1.2	9.5	68	1400
H20096S208GFP10000	96	8	4 x 1.4	10.5	82	1680
H20144S212GFP10000	144	12	4 x 1.4	11.0	96	2500
H20288S224GFP10000*	288	24	4 x 1.4	13.5	128	2400
H20432S236GFP10000*	432	36	4 x 1.4	15.6	185	2400
H20576S248GFP10000*	576	48	4 x 1.4	18.0	214	2700
H20720S260GFP10000*	720	60	4 x 1.6	19.5	253	3200
H20864S272GFP10000*	864	72	4 x 1.6	21.0	285	3600

**Note:** \*Only for duct application

<sup>1</sup>For Cables with >288F, Modules shall be arranged in bundles of 12, separated by binders of different colors

<sup>2</sup>For Duct, Tensile shall be calculated at 0.5% Fibre Strain

<sup>3</sup>For Aerial, Tensile shall be calculated at 0.3% Fibre Strain Mech

## Specifications

Mechanical & 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	-30° C to +70° C	
Operation	-40° 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

## Product Ordering Information

Please create the desired Product Code following the instructions below:

Product type		Fibre count (0004 - 0576)				Fibre type		No. of active tubes/bundles (01-24)		Gel Tube/Dry Core	*colour code	Jacket type		"Running number"		**Jacket color	
		1				2		3		4	5	6				7	
H	2	-	-	-	-	-	-	0	1	G	A	P	1	0	0	0	0

1. Select Fibre count by indicating the corresponding number from 0006 to 0864.

2. Select Fibre code corresponding to the requested Fibre type among the following options.

3. Select number of active tubes/bundles by indicating the corresponding number 01.

4. Select jacket material code corresponding to requested material type.

Fibre code		Fibre type (ITU-T)	STL's Fibre Name*
S	2	G.657.A2	STL HD A2 250
C	1	G.657.A2/G.652.D	STL Stellar 250

Jacket type code		Jacket material, number, and combinations
P	1	Polyethylene Sheath

Code	Color Sequence Description*
A	EIA/TIA 598C
D	VDE/DIN
F	France

5. Select Jacket Color Code

Jacket color code		Jacket color**
0	0	Black (standard)
J	1	Orange

\*Codes may vary as per color code

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

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