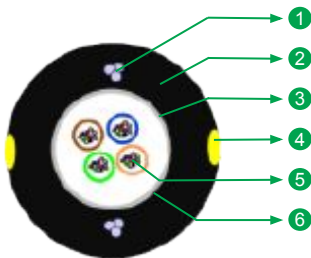


Yogalite

ULW OSP SJ Filled Tubes/ Dry Core Multitube OFC



1 EMBEDDED BRASS COATED STEEL WIRE

2 POLYETHYLENE OUTER SHEATH

3 ARAMID YARNS (IF REQUIRED)

4 YELLOW STRIPE MARKING

5 MICROBUNDLE WITH FIBRES & GEL

6 WATER SWELLABLE TAPE

* 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 mid-span access

Product Details

Yogalite™ Single Jacket Cable by STL Tech™ 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

The cables comply to the following standards IEC 60793-2-50, IEC 60794-5-10, Telcordia GR-20, ITU-T G652 and/or G657, RoHS, REACH.

Printing Details

Printing: STL SM " FIBRE TYPE " "FIBRE COUNT" ULW 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.

Specifications

Physical Characteristics	
Maximum Cabled Fibre Attenuation (dB/km)	1310nm: 0.35; 1550nm: 0.23
PMD LDV (ps/sqrt.km)	≤ 0.1
Fibers per Tube	12
Micro- module	Easy strippable buffer tubes
Embedded Strength Member	Brass Coated Steel Wire
Stripe Marking	2 Nos. Yellow/Green stripe Marking [90° to steel wires]
Outer Sheath Material	UV Proof Black1 Polyethylene

Fibre Color Sequence (AS per EIA/TIA 598C) ²											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
Blue*	Orange*	Green*	Brown*	Slate*	White*	Red*	Natural*	Yellow*	Violet*	Rose*	Aqua*

Note: ¹ Other jacket colours are available on demand, prior approval

²Other fibres and tubes colour sequences are available on demand, prior approval.

Cable Characteristics with G.657.A1 Fibre ³					
Product Code	Fibre count	Color Code Sequence	Cable Diameter (mm) +0.3	Cable Weight (kg/km) + 10%	Breaking Load (N)
K20004S101GAP100J9	4	Blue	7	40	1350 - 2000
K20006S101GAP100J9	6	Blue	7	40	1350 - 2000
K20012S101GAP100J9	12	Blue	7	40	1350 - 2000
K20024S102GAP100J9	24	Blue, Orange	7	42	1350 - 2000
K20036S103GAP100J9	36	Blue, Orange, Green	7	48	1350 - 2000
K20048S104GAP100J9	48	Blue, Orange, Green, Brown	7	50	1350 - 2000

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard Method
Installation Load (N)	250	IEC-60794-1-21-E1
Crush Resistance (N/10cm)	2000	IEC-60794-1-21-E3A
Impact Strength (N·m)	5	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Repeated Bending	20 x OD	IEC-60794-1-21-E6
Min. Bend Radius (During Installation)	20 x OD	
Min. Bend Radius (After Installation)	15 x OD	
Water Penetration Test	1m waterhead, 3m samples, 24 h	IEC-60794-1-21-F5B
Drip Test	30 cm, 70°C, 24 h	IEC-60794-1-21-E14
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	
Span Length	85 Meter Maximum	1.5% - Sag
Environmental Loading	Wind Speed: 97 km/hr and "0" (Zero) Ice load	Condition1
	Wind Speed: "0" (Zero) and 5 mm Ice load	Condition2
High Voltage test	15 kV rms, 5mins	

Note: All tests shall be performed according to the relevant methods of the IEC 60794-1 standard series with limit values and acceptance criteria according to the IEC 60794-5-10 standard.

Packing and Lengths

Drum Type : Wooden Drums
 Length Multiple (km) : 2 | 4 ± 5% (For all Fibre Counts)

Printing Details

Printing : STL SM " FIBRE TYPE " "FIBRE COUNT" ULW 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.

Product Ordering Information for cable

Product Type		Fibre count (4 – 96)				Fibre type		No. of active tubes/bundles (01-24)		Gel Tube/ Dry Core	*Color Code	Jacket type		"Running number"		**Jacket color	
		1				2		3		4	5	6				7	
K	2	-	-	-	-	-	-	0	1	G	A	P	1	0	0	0	0

Create the desired Product Code following the instructions below:

- 1 Select Fibre count by indicating the corresponding number from **0004** to **0096**
- 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**
- 6 Select jacket material code corresponding to requested material type.

Fibre code		Fibre type (ITU-T)	STL's Fibre Name
S	1	G.657.A1	STL HD A1 250
S	N	G.657.A1/G.652.D	STL NOVA
S	2	G.657.A2	STL HD A2 250
C	1	G.657.A2/G.652.D/G.657A1	STL Stellar 250

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

7. Select Jacket Color Code

Color code		Jacket color**
J	8	Black Sheath with Yellow Stripe Marking
J	8	Black Sheath with Green Stripe Marking

**Codes may vary as per jacket color

- 5.

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

*Codes may vary as per color code

Example: 12F Yogalite ULW G.657.A1 OSP SJ Filled Tubes/ Dry Core Multitube OFC with Green Stripes

K	2	0	0	1	2	S	1	0	1	G	A	P	1	0	0	J	9
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For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

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