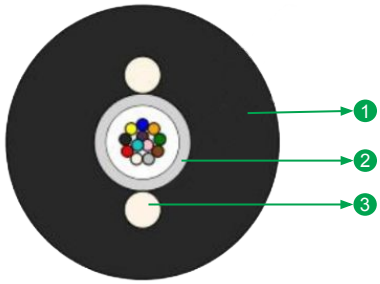
Product Specification

DROP-LITE OSP

Unitube Gel Filled Round Drop SJ OFC



1 OUTER JACKET

2 GEL FILLED TUBE

3 STRENGTH MEMBER

** Typical Construction Diagram - Not to Scale*

Features & Benefits

- Embedded strength members for anti-buckling properties
- Longitudinal water protection is enabled by water blocking compounds in tube
- Easy access to fibre due to its Unitube construction
- The construction with PE jacket.
- Easily removable rugged thermoplastic jacket, with UV protection
- Flexible, light weight, easy to handle and install

Product Details

STL DROP-LITE Round Drop Dielectric Fiber Optic Cable offers the ease of installation in an easy access, single-tube design. This cable has optical fibres presented in tube filled with a thixotropic gel and is enclosed in a thermoplastic sheath. The cables have two embedded strength members for anti-buckling property. The dielectric version eliminates any bonding and grounding requirements.

Fibres and Cable Performance Standards

The cables performances comply with or exceed the requirements from the following standards IEC 60793-2-50, IEC 60794-3-10, ITU-T G652 and/or G657, RoHS, REACH.

Printing Details

STERLITE SM "FIBER TYPE" "FIBER COUNT" ROUND DROP OFC LASER SYMBOL TELEPHONE SYMBOL MONTH & YEAR OF MANUFACTURE" "LENGTH CODE" "METER MARKING"

Note

1. 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.
2. Any other cable printing can be customized based on customer request and agreement.

Specifications

Physical Characteristics	
Maximum Cabled Attenuation (dB/km)	1310nm: 0.35 & 1550nm: 0.23
Tube Material	Polybutylene Terephthalate (PBT)
Tube Color	Natural/White
No of Tubes	1
Embedded Strength Member	FRP (Fibre Reinforced Plastic)
Outer Sheath Material	UV Stabilized Black Polyethylene

Fiber Color Sequence (to be defined)[1]											
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Turquoise

Notes [1]: Other fibres colour sequences are available on demand, prior approval.

Cable Designs				
Product Code	**Fiber Count**	**Fiber Color**	**Cable Diameter +/- 0.3mm**	**Cable Weight Kg/Km(± 10%)**
F30004S301GUP10000	4	Blue, Orange, Green, Brown	6	30
F30006S301GUP10000	6	Blue, Orange, Green, Brown, Slate, White	6	30
F30012S301GUP10000	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua	6	30

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Testing Standard Method**	**Cable Performance**
Tensile Strength	IEC-60794-1-21-E1	350
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
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 </= 0.15 dB/km
Installation		-10°C to +50°C
Operation		-20°C to +60°C
Storage		-20°C to +60°C

Note : Change in attenuation after and before testing shall be </= 0.05 dB/km for Single mode.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums/COIL	2/4 ± 5%	± 5%	Max 5%, Customer Approval

Ordering Information

Optical fiber cable in other fiber types may be available on request, please create product code from the table below. Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Product type		Fibre count (0004 – 0024)				Fibre type		No. of active tubes/bundles (01-24)		Tube/Bundle	Tube/Core type	Jacket type		Running number		*Special Requirement				
		1				2		3								4				
F	3	-	-	-	-	-	-	0	1	G	U	P	1	X	X	X	X	X	-	-

Create the desired Product Code following the instructions below:

1. Select fibre count by indicating the corresponding number from 0002 to 0012
2. Fibre code corresponding to requested fibre type among following options

Fibre code		Product Type (ITU-T)	STL's Fibre Name*
S	3	G.652.D	OH-LITE
S	1	G.657.A1	BOW-LITE
S	N	G.657.A1/G.652.D	OH-LITE NOVA
S	2	G.657.A2	BOW-LITE (E)
C	1	G.657.A2/G.652.D	STELLAR

**Click on fiber name to view fiber specs.*

3. Select number of active tubes/bundles by indicating the corresponding number from 01
4. Special Requirement

Code					Core Type
					Standard Black Sheath
-	-	-	-	-	

**Special code for special requirement shall be defined by STL as per customer requirement*

Examples

Round Drop-OSP 12 G.652.D 12F x 1 Filled Tube Unitube OFC (Standard)

F	3	0	0	1	2		S	3	0	1	G	U	P	1	X	X	X	X			

For additional information please contact your sales representative.

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