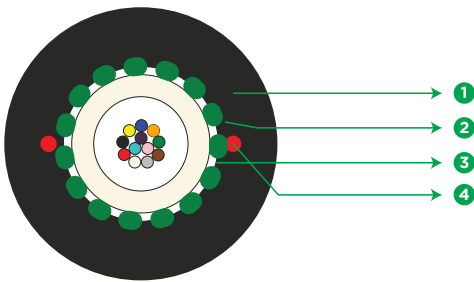


Drop-Lite

Unitube Gel Filled OFC with Glass Roving Yarn 2F - 24F



Cross Section 12F

1 OUTER PA JACKET

2 GLASS ROVING YARNS

3 GEL FILLED TUBE

4 RIPCORD(S)

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Duct cables with glass roving yarns are ideal for installation by pulling or air-blowing in conventional ducts, they can also be direct buried in clean sand bed
- The glass roving yarns armoring provides enhanced rodent protection
- Dry water-blocking technology for gel free core helps in quicker end preparation
- No earthing needed thanks to fully dielectric construction
- Easily removable rugged thermoplastic jacket, with UV protection
- Flexible, light weight, easy to handle and install

Product Details

STL Unitube Outside Plant, Single Jacket with Glass Roving Yarns Fibre Optic Cables are suitable for installation in conventional ducts by means of pulling or air-blowing techniques. These cables are based a loose tube structure with optical fibres placed inside a robust central buffer tube. In addition to the optical fibres, the buffer tubes are gel filled, and water swellable glass yarns are placed around it to ensure longitudinal water protection. The glass roving yarns layer provides the required tensile strength and enhanced rodent protection. An outer jacket of thermoplastic material is extruded over the cable core as a mechanical and environmental protection.

Fibres and Cable Performance Standards

The cables comply to the following standards IEC 60793-2-50, IEC 60794-3-10, ITU-T G652, RoHS, REACH.


Printing Details

Printing: STERLITE SM FIBRE TYPE FIBRE COUNT DROP-LITE OFC LASER SYMBOL TELEPHONE SYMBOL
YEAR OF MANUFACTURE LENGTH CODE METER MARKING

Printing method: Ink-Jet/Hot Foil

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; 1625nm: 0.26
PMD LDV (ps/sqrt.km)	≤ 0.1
Central Strength Member	FRP (Fibre Reinforced Plastic)
Fillers (if required)	Thermoplastic material, natural colour
Peripheral Strength Elements	Glass Roving Yarns
No of Ripcords Below Outer Sheath	1
Outer Jacket Thickness (mm)	1.1 (nominal)
Outer Jacket Material	UV Resistant Black ¹ ,  H

Fibres Colour Sequence (as per DIN/VDE 0888)^{2,3}

Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Pink	Orange
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Note: ¹Other jacket colours are available on demand, prior approval

²The fibres 13 to 24, when present, have a black ring marking (the back fibre is replaced by a natural fibre with black ring marking)

³Other fibres colour sequences are available on demand, prior approval.

Cable Designs

Product Code	Fibre count	Fibre Type	Buffer tube size (mm) ±0.05	Cable Diameter (mm) ±5%	Cable Weight (kg/km) ±10%
F20002S301GAP10000	2	G.652D	3.0	7.4	50
F20004S301GAP10000	4	G.652D	3.0	7.4	50
F20006S301GAP10000	6	G.652D	3.0	7.4	50
F20008S301GAP10000	8	G.652D	3.0	7.4	50
F20012S301GAP10000	12	G.652D	3.0	7.4	50
F20024S301GAP10000	24	G.652D	3.4	7.8	52
F20002S101GDP10000	2	G.657 A1	3.0	7.4	50

Cable Designs

Product Code	Fibre count	Fibre Type	Buffer tube size (mm) ±0.05	Cable Diameter (mm) ±5%	Cable Weight (kg/km) ±10%
F20004S101GDP10000	4	G.657 A1	3.0	7.4	50
F20006S101GDP10000	6	G.657 A1	3.0	7.4	50
F20008S101GDP10000	8	G.657 A1	3.0	7.4	50
F20012S101GDP10000	12	G.657 A1	3.0	7.4	50
F20024S101GDP10000	24	G.657 A1	3.4	7.8	52

Specifications

Mechanical & Environmental Characteristics

Cable Characteristics	Cable Performance	Testing Standard Method
Tensile Strength Short term	1500	IEC-60794-1-21-E1
Crush Resistance (N/cm)	2000	IEC-60794-1-21-E3A
Impact Strength(Nm)	10	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Repeated Bending	20 x OD	IEC-60794-1-21-E6
Bend	20 x OD	IEC-60794-1-21-E11A
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 hr	IEC-60794-1-21-E14
Temperature Performance		IEC-60794-1-22-F1
Installation	-5° C to +50° C	
Operation	-20° C to +60° C	
Storage	-25° C to +70° C	

Note: All tests shall be performed according to the relevant methods of the IEC 60794-1-2 standard series with limit values and acceptance criteria according to the IEC 60794-3-10 standard.

Packing and Lengths

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

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 (0002 - 0024)				Fibre type		No. of active tubes (01)		Cable core type	Fibres colour code		Jacket type		Running number		Special requirement	
		1				2		3			4							
F	2	-	-	-	-	-	-		1	G	-	-	P	1	0	0	0	0

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	Fibre type (ITU-T)	STL's Fibre Name
S1	G.652D/G.657 A1	BOW-LITE
S2	G.657 A2	BOW-LITE (E)
S3	G.652D	OH-LITE
SN	G.657 A1 adv/G652D	OH-LITE NOVA

3. Number of active tubes : 01

4. Fibres colour sequence available options⁴

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: ⁴ other colour codes are available on demand prior STL approval	

5. Outer sheath type- P1: Polyethylene, Single Jacket.

For additional information please contact your sales representative.

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

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