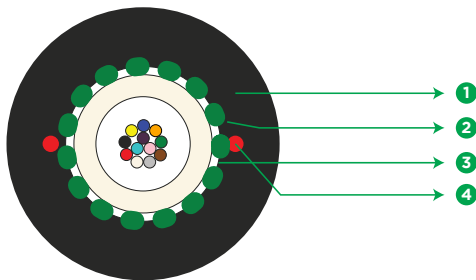


Drop-Lite

Unitube Gel Filled LSZH 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 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 resistant
- Flexible, light weight, easy to handle and install
- Class Eca rated according to CPR

Product Details

STL Unitube Out-Side Plant, Single Jacket with Glass Roving Yarns Fibre Optic Cables are suitable for installation in conventional ducts by means of pulling techniques. These cables are based on a loose tube structure with the 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. The outer jacket made of LSZH thermoplastic material is extruded over the cable core as a mechanical and environmental protection. Class Eca rated to CPR.

Fibres and Cable Performance Standards

The cables comply to the following standards IEC 60793-2-50, IEC 60794-3-10, Telcordia GR-20, ITU-T G652 and/or G657, RoHS, REACH.

Printing Details

Printing: STERLITE SM FIBRE TYPE FIBRE COUNT DROP-LITE I/O 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 |
| 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 , LSZH |

| Fibres Colour Sequence (as per DIN/VDE 0888) ^{2,3} | | | | | | | | | | | |
|---|-------|------|--------|-------|------|-------|--------|-----------|-------|------|--------|
| Red | Green | Blue | Yellow | White | Grey | Brown | Violet | Turquoise | Black | Pink | Orange |

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% |
| F80002S301GDL100E0 | 2 | G.652D | 3.0 | 7.4 | 60 |
| F80004S301GDL100E0 | 4 | G.652D | 3.0 | 7.4 | 60 |
| F80006S301GDL100E0 | 6 | G.652D | 3.0 | 7.4 | 60 |
| F80008S301GDL100E0 | 8 | G.652D | 3.0 | 7.4 | 60 |
| F80012S301GDL100E0 | 12 | G.652D | 3.0 | 7.4 | 60 |
| F80024S301GDL100E0 | 24 | G.652D | 3.4 | 7.8 | 62 |
| F80002S101GDL100E0 | 2 | G.657 A1 | 3.0 | 7.4 | 60 |

Cable Designs

| Product Code | Fibre count | Fibre Type | Buffer tube size (mm) ±0.05 | Cable Diameter (mm) ±5% | Cable Weight (kg/km) ±10% |
|--------------------|-------------|------------|-----------------------------|-------------------------|---------------------------|
| F80004S101GDL100EO | 4 | G.657 A1 | 3.0 | 7.4 | 60 |
| F80006S101GDL100EO | 6 | G.657 A1 | 3.0 | 7.4 | 60 |
| F80008S101GDL100EO | 8 | G.657 A1 | 3.0 | 7.4 | 60 |
| F80012S101GDL100EO | 12 | G.657 A1 | 3.0 | 7.4 | 60 |
| F80024S101GDL100EO | 24 | G.657 A1 | 3.4 | 7.8 | 62 |

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 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 (0004 - 0024) | | | | Fibre type | | No. of active tubes (01) | | Cable core type | Fibres colour code | | Jacket type | | Running number | | Special requirement | |
|--------------|---|---------------------------|---|---|---|------------|---|--------------------------|---|-----------------|--------------------|---|-------------|---|----------------|---|---------------------|--|
| | | 1 | | | | 2 | | | | | 3 | | | | | | | |
| F | 8 | - | - | - | - | - | - | 0 | 1 | G | - | L | 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

3. 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 | |

| 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 |

For additional information please contact your sales representative.

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

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