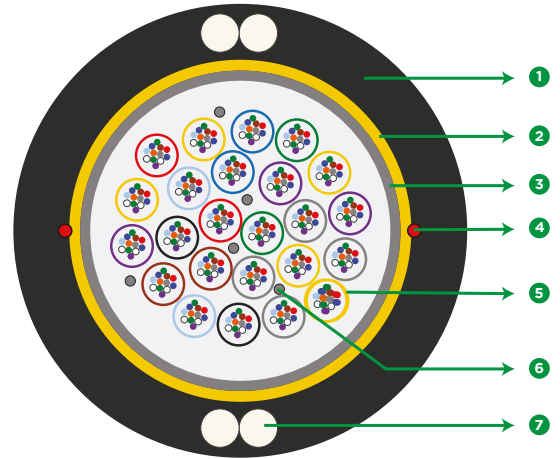


Yogalite

Outdoor Duct and Aerial OFC

6F - 864F | G.657.A2 Single Mode Fibre



Totally Dielectric



Water Blocked



Easy Strippable



UV Protected

1 OUTER SHEATH

2 ARAMID YARNS

3 WATER BLOCKING TAPE

4 RIPCORD

5 MODULE WITH Fibres

6 WATER SWELLABLE YARNS

7 EMBEDDED 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

STL YogaLite single jacket cable is based on micro-module technology to create an optimized design suitable for use in duct and aerial deployment scenarios. The micro-module unit consists 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.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH.

Printing Details

Printing : STL "Fibre Type" "Fibre Count" "Fibre per Module" YOGALITE DUCT/AERIAL Laser Symbol Telephone Symbol "Year of Manufacturing" "Length Code" "Meter marking" M6= 6 Fibres Per Micro Module & M12= 12 Fibres Per Micro Module

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

| Product Information | |
|---|--|
| Fibre | |
| Single Mode Optical Fibre Maximum Cabled Fibre Attenuation dB/Km PMDq | Sterlite Fibre, ITU.T - G.657 A2 1310nm : < 0.36, 1550nm : < 0.23 ≤ 0.2 ps/ fflkm |
| Micro Module | |
| Fibre/Module Module | 6 or 12 Nos. Fibre wiped with thixotropic gel Soft thermoplastic material |
| Cable | |
| Ripcord Water Blocking Elements Peripheral Strength Member Water Blocking Tape Embedded Strength Member Outer Sheath | 2 Nos. Polyester Based twisted Yarns Apply below outer sheath Water Swellable Yarns to prevent Water ingress in Cable High Tensile Aramid Yarn to meet required Tensile Strength To Cover the Core and Water Protection (if required) 2 or 4 Nos. Megabond Fibre Reinforced Plastic(FRP) Embedded in Sheath to give Strength & Antibuckling UV Proof Black High Density Polyethylene |

| Colour Sequence | |
|--|---|
| Fibre Inside Module: | Red, Blue, Green, Yellow, Violet, White, Orange, Grey, Brown, Black, Aqua, Pink |
| Modules (1-12): | Red, Blue, Green, Yellow, Violet, White, Orange, Grey, Brown, Light Green, Aqua, Pink |
| Modules (1-24): Single Intermittent Ring Stripe: | Red, Blue, Green, Yellow, Violet, White, Orange, Grey, Brown, Light Green, Aqua, Pink |
| Modules (1-48): Single Intermittent Ring Stripe: Double Intermittent Ring Stripe: Triple Intermittent Ring Stripe: | Red, Blue, Green, Yellow, Violet, White, Orange, Grey, Brown, Light Green, Aqua, Pink |
| Modules (1-60): Single Intermittent Ring Stripe: Double Intermittent Ring Stripe: Triple Intermittent Ring Stripe: Four Intermittent Ring Stripe: | Red, Blue, Green, Yellow, Violet, White, Orange, Grey, Brown, Light Green, Aqua, Pink |
| Modules (1-72): Single Intermittent Ring Stripe: Double Intermittent Ring Stripe: Triple Intermittent Ring Stripe: Four Intermittent Ring Stripe: Large Single Intermittent Ring Stripe: | Red, Blue, Green, Yellow, Violet, White, Orange, Grey, Brown, Light Green, Aqua, Pink |

Note:

- (a) Distance between adjacent ring shall be 2mm to 3 mm.
- (b) Distance Between Sequence Ring shall be 40 mm to 60 mm.
- (c) Width or depth of each Ring shall be 2mm to 3 mm '(c) Large ring- 6 ≤ depth ≤ 10mm.

Specifications

| Cable Construction | | | | |
|-----------------------|-------------|-------------------------|---|-----------------|
| Part Number | Fibre Count | Fibres Per Micro Module | Micro Module | Embedded FRP |
| | Numbers | Numbers | Numbers | Nos x Size (mm) |
| YA6FS201TGDP60MC391 | 6 | 6 | 1 | 2 X 1.2 |
| YA12FS202TGDP60MC391 | 12 | 6 | 2 | 2 X 1.2 |
| YA24FS204TGDP60MC391 | 24 | 6 | 4 | 4 X 1.2 |
| YA36FS206TGDP60MC391 | 36 | 6 | 6 | 4 X 1.2 |
| YA48FS208TGDP60MC391 | 48 | 6 | 8 | 4 X 1.2 |
| YA72FS212TGDP60MC391 | 72 | 6 | 12 | 4 X 1.2 |
| YA96FS216TGDP60MC391 | 96 | 6 | 16 | 4 X 1.2 |
| YA144FS224TGDP60MC391 | 144 | 6 | 24 | 4 X 1.2 |
| YA12FS201TGDP60MC391 | 12 | 12 | 1 | 2 X 1.2 |
| YA24FS202TGDP60MC391 | 24 | 12 | 2 | 4 X 1.2 |
| YA36FS203TGDP60MC391 | 36 | 12 | 3 | 4 X 1.2 |
| YA48FS204TGDP60MC391 | 48 | 12 | 4 | 4 X 1.2 |
| YA72FS206TGDP60MC391 | 72 | 12 | 6 | 4 X 1.2 |
| YA96FS208TGDP60MC391 | 96 | 12 | 8 | 4 X 1.4 |
| YA144FS212TGDP60MC391 | 144 | 12 | 12 | 4 X 1.4 |
| YA288FS224TGDP60MC391 | 288(*) | 12 | 24 | 4 X 1.4 |
| YA432FS236TGDP60MC391 | 432(*) | 12 | 36+1# (36 modules shall be arranged in bundle of 12 modules each, separated by binders of different colours) | 4 X 1.4 |
| YA576FS248TGDP60MC391 | 576(*) | 12 | 48+1# (48 modules shall be arranged in bundle of 12 modules each, separated by binders of different colours) | 4 X 1.4 |
| YA720FS260TGDP60MC391 | 720(*) | 12 | 60+1# (60 modules shall be arranged in bundle of 12 modules each, separated by binders of different colours) | 4 X 1.6 |
| YA864FS272TGDP60MC391 | 864(*) | 12 | 72+1# (72 modules shall be arranged in bundle of 12 modules each, separated by binders of different colours) | 4 X 1.6 |

Specifications

| Cable Construction | | | | |
|-----------------------|---------------------------|---------------|----------------|--------------|
| Fibre Count | Maximum Allowable Tension | Breaking Load | Cable Diameter | Cable Weight |
| | Newton | Newton | mm (+ 0.5) | kg/km (+10%) |
| YA6FS201TGDP60MC391 | 620 | 3700 | 6.0 | 30 |
| YA12FS202TGDP60MC391 | 840 | 3700 | 7.0 | 40 |
| YA24FS204TGDP60MC391 | 1080 | 3700 | 8.0 | 52 |
| YA36FS206TGDP60MC391 | 1200 | 5200 | 8.5 | 58 |
| YA48FS208TGDP60MC391 | 1300 | 5200 | 9.0 | 64 |
| YA72FS212TGDP60MC391 | 1550 | 5700 | 10.0 | 74 |
| YA96FS216TGDP60MC391 | 1860 | 5700 | 11.0 | 90 |
| YA144FS224TGDP60MC391 | 2400 | 6300 | 13.0 | 115 |
| YA12FS201TGDP60MC391 | 740 | 3700 | 6.5 | 35 |
| YA24FS202TGDP60MC391 | 880 | 3700 | 7.5 | 42 |
| YA36FS203TGDP60MC391 | 1080 | 5200 | 8.0 | 52 |
| YA48FS204TGDP60MC391 | 1200 | 5200 | 8.5 | 57 |
| YA72FS206TGDP60MC391 | 1400 | 5700 | 9.5 | 67 |
| YA96FS208TGDP60MC391 | 1680 | 5700 | 10.5 | 82 |
| YA144FS212TGDP60MC391 | 2000 | 6300 | 11.0 | 96 |
| YA288FS224TGDP60MC391 | 2500 | 7800 | 13.5 | 128 |
| YA432FS236TGDP60MC391 | 2400 | 8500 | 15.6 | 185 |
| YA576FS248TGDP60MC391 | 2700 | 8500 | 18.0 | 214 |
| YA720FS260TGDP60MC391 | 3200 | 10000 | 19.5 | 253 |
| YA864FS272TGDP60MC391 | 3600 | 10000 | 21.0 | 285 |

Note:

- (1) * only for duct application (288F to 864 F)
- (2) Width Ring Stripe shall be 2- 3 mm & Large Ring Stripe shall be 6 mm to 11 mm.
- (3) # An extra module shall be provide in Fibre count 432 & above for any contingency in any of module, (module colour shall be Black). This is optional.
- (4) For Duct :- 0.5% Fibre Strain at Specified Tensile Strength as mentioned in above Table
For Aerial :- 0.3% Fibre Strain at Specified Tensile Strength as mentioned in above Table

Specifications

| Optical Fibre Cable Performance | | | |
|--|-------------|-----------------------------|---|
| MECHANICAL (Test Standard - IEC 60794-1-2) | | | ENVIRONMENTAL (Test Standard IEC 60794-1-2) |
| Tensile Strength | Method E1 | | Temperature Cycling, Method F1 |
| Bend Diameter | Method E 11 | 15 D | Installation -10°C to +50°C |
| Kink Diameter | Method E10 | 10 D | Operation -30°C to +60°C |
| Crush | Method E3 | 2000 N / 100mm | Transport & Storage -40°C to +70°C |
| Impact | Method E 4 | 5 Nm | |
| Torsion | Method E 7 | ± 180° | |
| Water Penetration | Method F5B | 1m head, 3m samples, 24 hrs | |

All tests shall be carried out as per IEC Standards. Change in attenuation (before and after test) should be < 0.1 dB/Km

Packing and Lengths

| Drum | Length Multiple | Order Tolerance |
|--------|--|-----------------|
| Wooden | 4000 m +/- 5% upto 144F & 2000 m +/- 5% for > 144F | ± 5 % |

For additional information please contact your sales representative.

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