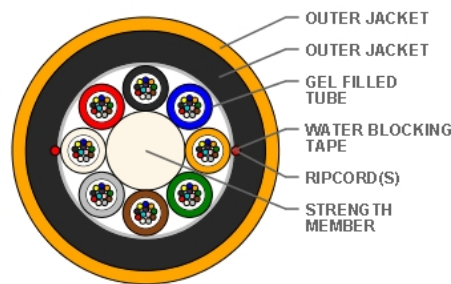


| | | | |
|---------------------|--|-------------|---------------|
| Product Name | : 96F SM G.652 D Multiloose Tube PE/PA Duct Lite Optical Fibre Cable | Date | : 14-Nov-2019 |
| Product Code | : DT0096FS308TGPN01 | | |
| Revision | : 1.0 | | |

Product Details

Sterlite Tech™ DUCT-LITE® Multitube Single Jacket Fibre Optic Cables are suitable for duct applications. This cable is a stranded loose tube cable with optical fibres placed inside robust buffer tubes stranded around a fibre reinforced plastic (FRP) central strength member. In addition to optical fibres, the buffer tubes contain water blocking gel and the cable core is surrounded with water-swellaable tape to prevent water ingress in the interstices of cable core.

Construction Diagram



* Typical Construction Diagram - Not to Scale

Features & Benefits

- Multitube design with ripcords for easy and quick mid span access
- Easily removable rugged thermoplastic jacket
- Water-blocking technology for gel free core helps in quicker end preparation
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected

Specifications

| Physical Characteristics | |
|------------------------------------|---|
| Fibre Count | 96 |
| Fibre Type | Sterlite Fibre ITU-T G.652 D |
| Maximum Cabled Attenuation (dB/km) | 1310nm : 0.35 & 1550nm : 0.23 |
| Individual PMD (ps/sqrt.km) | <= 0.2 |
| Link Design PMD (ps/sqrt.km) | <= 0.1 |
| Fibres per Tube | 12 |
| Fibre Color Sequence | Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow,Violet,Pink,Aqua |
| Tube Size (mm) | 2 |
| Central Strength Member | FRP (Fibre Reinforced Plastic) |
| No of Tubes in Layer 1 | 8 |
| Tube Color Sequence | Blue,Orange,Green,Brown,Slate,White,Red,Black |
| Inner Sheath Material | UV Proof Black HDPE |
| Nominal Sheath Thickness (mm) | 1.4 |
| No of Ripcords Below Inner Sheath | 2 |
| Outer Sheath Material | UV Proof Orange Nylon 1010 |
| Nominal Sheath Thickness (mm) | 0.6 |
| Nominal Cable Dimensions (mm) | 11.8+/- 0.5 |
| Nominal Cable Weight (kg/km) | 117+/- 10% |

Mechanical & Environmental Characteristics

| Cable Characteristics | Testing Standard | Cable Performance |
|--|--------------------|---|
| Tensile Strength (N) | IEC-60794-1-21-E1 | 3500 |
| Crush Resistance (N/100 mm) | IEC-60794-1-21-E3 | 2000 |
| Impact Strength(Nm) | IEC-60794-1-21-E4 | 5 |
| 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 | 15 D |
| Water Penetration Test | IEC-60794-1-22-F5 | 1m head, 3m samples, 24 hrs |
| Drip Test | IEC-60794-1-21-E14 | 30 cm, 70°C, 24 hr |
| *Temperature Performance | IEC-60794-1-22-F1 | Max. change in attenuation shall be $\leq 0.15\text{ dB/km}$ |
| Installation | | -10°C to +70°C |
| Operation | | -40°C to +70°C |
| Storage | | -40°C to +70°C |

Note : All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be ≤ 0.05 dB/km for Single Mode fibre and ≤ 0.3 dB/km for Multimode fibre.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, Telecordia GR-20, ITU-T, RoHS, Reach.

Packing and Lengths

| | |
|----------------------|-----------------------------|
| Drum Type | : Wooden Drums |
| Length Multiple (km) | : 8 +/- 5% |
| Order Tolerance | : +/- 5% |
| Short Lengths | : Max 5%, Customer Approval |

Printing Details

Printing : STERLITE SM 96F G652 D PE/PA DUCT 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.

Revision History

| Revision No. | Date | Description |
|--------------|-------------|---------------|
| 1.0 | 14-Nov-2019 | Initial Issue |

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