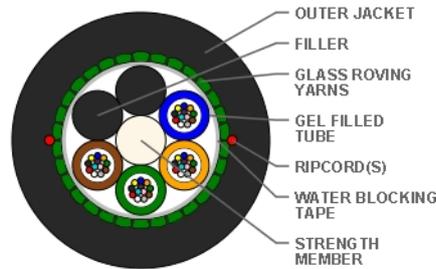


Product Name	: 48F SM G.652 D/G.657 A1/OM1/OM2/OM3/OM4 Multiloose Tube LSZH Duct Lite Optical Fibre Cable	
Product Code	: DT0048FS304TGL113	
Revision	: 1.0	Date : 26-Nov-2019

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
- Rodent resistant
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected

Specifications

Physical Characteristics	
Fibre Count	48
Fibre Type	Sterlite Fibre ITU-T G.652 D/G.657 A1/OM1/OM2/OM3/OM4
Maximum Cabled Attenuation (dB/km)	G.652 D/G.657A1: 1310nm : 0.35 & 1550nm : 0.23 OM1/OM2/OM3/OM4:850 nm : <= 3.0 & 1300 nm : <= 1.5
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	4
Tube Color Sequence	Blue,Orange,Green,Brown,Filler,Filler
No of Fillers	2
Filler Color	Black
Peripheral Strength Members	Glass Roving Yarns
Outer Sheath Material	UV Proof Black LSZH
Nominal Sheath Thickness (mm)	1.6
No of Ripcords Below Outer Sheath	2
Nominal Cable Dimensions (mm)	10.2+/- 0.5
Nominal Cable Weight (kg/km)	104+/- 10%

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	2700
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	15 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	20 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 $\leq 0.05\text{ dB/km}$ for Single Mode fibre and $\leq 0.3\text{ dB/km}$ 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) : 4 +/- 5%
- Order Tolerance : +/- 5%
- Short Lengths : Max 5%, Customer Approval

Printing Details

Printing : STERLITE SM 48F G652 D/G.657 A1/OM1/OM2/OM3/OM4 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	26-Nov-2019	Initial Issue

Prepared By : Zaid