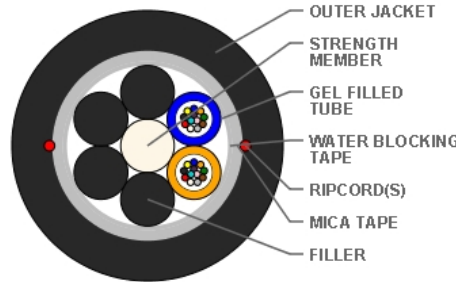


Product Name : 24F SM (G.657A1) Duct Lite Multitube Single Sheath [LSZH] OFC
Product Code : DT0024FS102TGL105
Revision : 1.0 **Date** : 25-May-2021

Product Details

STL 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-swallowable 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	24
Fibre Type	Sterlite ITU-T G.657 A1
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD LDV (ps/sqrt.km)	<= 0.1
Fibres per Tube	12
Fibre Color Sequence	Blue,Orange,Green,Brown,Slate,White,Red,Black, Yellow, Violet,Pink,Aqua
Central Strength Member	FRP (Fibre Reinforced Plastic)
No of Tubes in Layer 1	2
Tube Color Sequence	Blue,Orange,Filler,Filler,Filler,Filler
No of Fillers	4
Filler Color	Black
Outer Sheath Material	UV Proof Black LSZH
No of Ripcords Below Outer Sheath	2
Nominal Cable Dimensions (mm)	10±0.5
Nominal Cable Weight (kg/km)	115±10%

Remarks : CPR Rating - Dca

Mechanical & Environmental Characteristics

Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	1500
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	1500
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 waterhead, 3m samples, 24 h
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 h
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be ≤ 0.15 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)	: $4 \pm 5\%$
Order Tolerance	: $\pm 5\%$
Short Lengths	: Max 5%, Customer Approval

Printing Details

Printing	: STL SM 24F G657A1 DUCT LASER SYMBOL TELEPHONE SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING
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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	24-May-2021	Initial Issue

Prepared By : Zaid