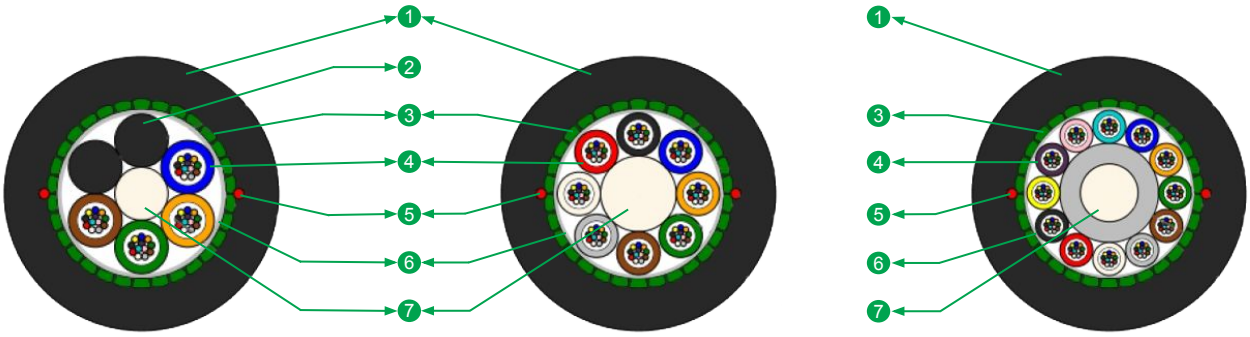
Product Specification

DuctLite™

Multiloose Tube LSZH Duct Lite OFC

48,96 & 144F SM G.652 D/G.657 A1/OM1/OM2/OM3/OM4



1 OUTER JACKET
2 FILLER
3 GLASS ROVING YARNS
4 GEL FILLED TUBE
5 RIPCORD(S)
6 WATER BLOCKING TAPE
7 STRENGTH MEMBER

** 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

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-swellable tape to prevent water ingress in the interstices of cable core.

Fibres and Cable Performance Standards

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

Printing Details

Printing : STERLITE SM 48F/96F/144F 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.

Specifications

Physical Characteristics			
Fiber Count	48	96	144
Fiber 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		
Tube size (mm)	2		
Central Strength Members	FRP (Fibre Reinforced Plastic)		
No of Tubes in Layer 1	4	8	12
Tube Color Sequence	Blue, Orange, Green, Brown, Filler, Filler	Blue, Orange, Green, Brown, Slate, White, Red, Black	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
No of Fillers	2	0	0
Filler Color	Black	NA	NA
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	11.8+/- 0.5	14.2+/- 0.5
Nominal Cable Weight (kg/km)	104+/- 10%	139+/- 10%	194+/- 10%

Fiber Color Sequence (as per EIA/TIA 598C)											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

Specifications

Mechanical & Environmental Characteristics [2]		
Cable Characteristics	**Cable Performance**	**Testing Standard Method**
Tensile Strength (N)	48F - 2700 | 96F - 3500 | 144F - 4500	IEC-60794-1-21-E1
Crush Resistance (N/100 mm)	2000	IEC-60794-1-21-E3
Impact Strength(Nm)	5	IEC-60794-1-21-E4
Torsion	±180º	IEC-60794-1-21-E7
Min. Bend Radius (During Installation)	15 D	IEC-60794-1-21-E11
Min. Bend Radius (After Installation)	20 D	IEC-60794-1-21-E11
Water Penetration Test	1m head, 3m samples, 24 hrs	IEC-60794-1-22-F5
Drip Test	30 cm, 70ºC, 24 hr	IEC-60794-1-21-E14
Temperature Performance	Max. change in attenuation shall be </= 0.15 dB/km	IEC-60794-1-22-F1
Installation	-10º C to +70º C	
Operation	-40º C to +70º C	
Storage	-40º C to +70º C	

Note 2: 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.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	4 +/- 5%	+/- 5%	Max 5%, Customer Approval

For additional information please contact your sales representative.

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