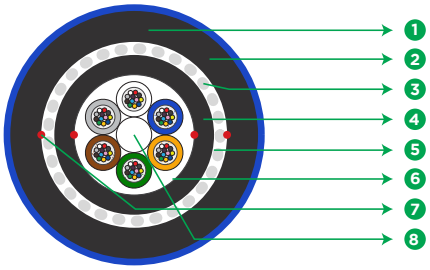
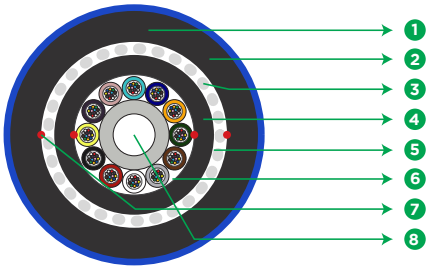
Product Specification

Armor Lite

Multitube Gel Filled Double Jacket FRP Armored OFC
12F - 144F | OH-Lite - G.652.D Single Mode Fiber



Cross Section 72F



Cross Section 144F

1. OUTER PA JACKET
2. OUTER PE SHEATH
3. FLAT FRP
4. INNER JACKET
5. WATER BLOCKING TAPE
6. GEL FILLED TUBE
7. RIPCORDS
8. STRENGTH MEMBER

** Typical Construction Diagram - Not to Scale*

Features & Benefits

- Flat FRP dielectric armoring provides additional protection against crush, impact and rodent attacks
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Easily removable rugged UV stabilized thermoplastic jackets
- Resistant to termite attacks
- Ripcords for easy and quick mid span access

Product Details

STL ARMOR-LITE OSP DJ Flat FRP Armored Multitube Double Jacket Fiber Optic Cables are typically used for outside plant (OSP) applications. Suitable for directly buried by cable plough and open trench installation methods in harsh environments. This cable comes with loose tubes containing optical fiber & water blocking gel, loose tube is S-Z stranded over FRP, surrounded with water-swellable tape to prevent water ingress in the cable. An inner sheath of polyethylene is extruded over stranded core and Flat FRPs are helically wrapped over the inner sheath forming a rodent protected dielectric armoring. A thermoplastic dual jacket of polyethylene & polyamide is extruded over the FRP armor layer making the cable robust and installation friendly.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794-1-21/22, ITU-T, RoHS, REACH.

Printing Details

Printing: STERLITE SM FIBER TYPE FIBER COUNT F DIRECT BURIED FRP ARMOR OFC 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	12~144
Fiber Type	STL OH LITE (ITU-T G.652.D)
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35; 1550 nm : 0.22 ; 1625 nm : 0.23
PMD LDV (ps/sqrt.km)	≤ 0.1
Fibers per Tube	12
Central Strength Member	FRP (Fiber Reinforced Plastic)
Filler	Thermoplastic material
Core Wrapping	Binder and water swellable tape
Inner Sheath Material	Black Polyethylene
No of Ripcords Below Inner Sheath	2
Peripheral Strength Members	Flat FRP
No of Ripcords Below Outer Sheath	2
Outer Sheath Material	UV Stabilized Black Polyethylene
Outer Jacket Material	UV Stabilized Blue Nylon (bonded to PE Sheath)

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

Cable Characteristics						
Product Code	**Fiber Count**	**No. of Tubes**	**Tube Color Sequence**	**No. of Fillers**	**Cable Diameter mm (± 1.0)**	**Cable Weight Kg/Km (± 10%)**
B30012S301GAP40000	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	15.5	210
B30024S302GAP40000	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	15.5	210
B30036S303GAP40000	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	15.5	210
B30048S304GAP40000	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	15.5	210
B30072S306GAP40000	72	6	Blue, Orange, Green, Filler, Filler, Filler	0	15.5	210
B30096S308GAP40000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	17.0	260
B30144S312GAP40000	144	12	Blue, Orange, Green, Brown, Slate, White, Red,Black, Yellow, Violet, Rose, Aqua	0	19.5	335

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standard**
Tensile Strength (N)	6000	IEC-60794-1-21-E1
Crush Resistance (N/100 mm)	6000	IEC-60794-1-21-E3
Impact Strength (Nm)	10	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius	30 D	IEC-60794-1-21-E11
Water Penetration Test	1m waterhead, 3m samples, 24 h	IEC-60794-1-22-F5
Temperature Performance	Max. change in attenuation shall be ≤ 0.15 dB/km	IEC-60794-1-22-F1
Installation	-10° C to +70° C	
Operation	-20° C to +70° C	
Storage	-30° C to +70° C	

Note: All tests shall be carried out as per IEC standards. Change in attenuation after test shall be ≤ 0.1 dB/ km for Single Mode Fiber.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	4/6 ± 5%	±5%	Max 20%, Customer Approval

For additional information please contact your sales representative.
You can also visit our website at www.stl.tech