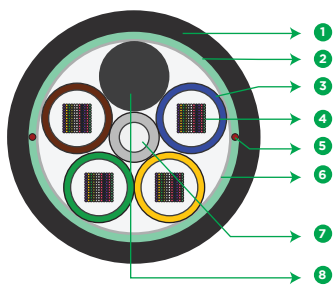


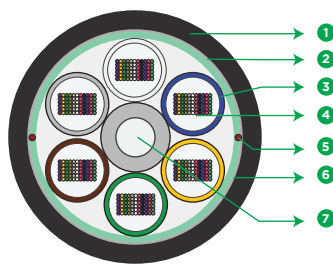
Ribbon-Lite

Multitube Gel Filled Ribbon Armored OFC

96F - 864F | OH Lite - G.652.D Single Mode Fiber



5 Elements



6 Elements

- | | | | |
|-----------------------|--------------------------------|------------------------------|-----------------|
| 1 OUTER JACKET | 2 CORRUGATED STEEL TAPE | 3 GEL FREE LOOSE TUBE | 4 RIBBON |
| 5 RIPCORD(S) | 6 WATER BLOCKING TAPE | 7 STRENGTH MEMBER | 8 FILLER |

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Precise fiber and ribbon geometries result in excellent mass fusion splicing yields
- Fiber ribbons are individually marked for easy identification
- Easily removable rugged UV protected thermoplastic jacket
- Tensile and crush resistant

Product Details

STL RIBBON-LITE Multitube Steel Tape Armored Cable combines robust performance for duct installations with the productivity of high-count mass fusion splicing. Twelve optical fibers are arranged into ribbon units by placing the fibers in a flat array of color-coded fibers bonded together by a UV-curable acrylate matrix. RIBBON-LITE comes with gel free technology; the buffer tubes contain water-blocking gel and are surrounded with water-swallowable tape and yarns to prevent water ingress in the cable. The buffer tubes are stranded around the central strength member using reverse oscillation stranding method forming the cable core. Corrugated Steel Tape armor surrounds the cable core with a thermoplastic jacket placed over the armor layer making the cable robust and installation friendly.

Cable Performance Standards

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

Printing Details

Printing: STL SM "FIBER TYPE" "FIBER COUNT" MLT RIBBON ARMORED OFC LASER SYMBOL TELEPHONE SYMBOL
"YEAR OF MANUFACTURE" "LENGTH CODE" "FEET/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.
Any other cable printing can be customized based on customer request and agreement.

Specifications

Physical Characteristics	
Fiber Type	STL Fiber ITU-T G.652.D
Maximum Cabled Attenuation (dB/km)	1310nm : 0.4 & 1550nm : 0.3
PMD LDV (ps/sqrt.km)	≤ 0.1
Ribbon Printing per Tube (2 Ribbon/Tube)	1 RIBBON 1, 2 RIBBON 2
Ribbon Printing per Tube (4 Ribbon/Tube)	1 RIBBON 1, 2 RIBBON 2, 3 RIBBON 3, 4 RIBBON 4
Ribbon Printing per Tube (6 Ribbon/Tube)	1 RIBBON 1, 2 RIBBON 2, 3 RIBBON 3, 4 RIBBON 4, 5 RIBBON 5, 6 RIBBON 6
Ribbon Printing per Tube (12 Ribbon/Tube)	1 RIBBON 1, 2 RIBBON 2, 3 RIBBON 3, 4 RIBBON 4, 5 RIBBON 5, 6 RIBBON 6, 7 RIBBON 7, 8 RIBBON 8, 9 RIBBON 9, 10 RIBBON 10, 11 RIBBON 11, 12 RIBBON 12
Central Strength Member	FRP (Fiber Reinforced Plastic)
Tube Material	Polybutylene Terephthalate (PBT)
Filler (if required)	Black Thermoplastic Material
Water Blocking Elements	Water Blocking Gel, Water Swellable Tape & Yarns
Core Wrapping	Binder and water swellable tape
No of Ripcords Below Tape	2
Metallic Armoring	Corrugated Steel Tape
Outer Sheath Material	UV Proof Black Polyethylene

Fiber Color Sequence (AS per EIA/TIA 598C)

Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
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Cable Design with G.652.D Fiber

Product Code	Fiber Count	No. of Tubes	Tube Color Sequence	No. of Fillers	Cable Diameter mm (inch) (±1.0mm)	Cable Weight Kg/Km (lbs./ft.) (±10%)
O10096S304GAB10000	96	4	Blue, Orange, Green, Filler, Filler	2	20.4 (0.80)	340 (0.23)
O10144S306GAB10000	144	6	Blue, Orange, Green, Brown, White	0	22.2 (0.87)	380 (0.26)
O10192S304GAB10000	192	4	Blue, Orange, Green, Brown, Filler	1	22.2 (0.87)	380 (0.26)
O10216S303GAB10000	216	3	Blue, Orange, Green, Filler, Filler	2	22.2 (0.87)	380 (0.26)
O10288S304GAB10000	288	4	Blue, Orange, Green, Brown, Filler	1	22.2 (0.87)	402 (0.27)
O10432S306GAB10000	432	6	Blue, Orange, Green, Brown, Slate, White	0	23.8 (0.94)	440 (0.30)
O10576S304GAB10000	576	4	Blue, Orange, Green, Brown, Filler	1	25.5 (1.00)	488 (0.33)
O10720S305GAB10000	720	5	Blue, Orange, Green, Brown, Slate, Filler	1	28.0 (1.10)	600 (0.40)
O10864S306GAB10000	864	6	Blue, Orange, Green, Brown, Slate, White	0	28.0 (1.10)	600 (0.40)

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard
Tensile Strength (N)(lbf)	Short Term – 2700 (606.9) Long Term – 900 (202.3)	IEC-60794-1-21-E1
Crush Resistance (N/cm) (lbf/in)	300 (171)	IEC-60794-1-21-E3
Impact Strength (Nm) (lbf.in)	5 (44.2)	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius	15 D	IEC-60794-1-21-E11
Repeated Bending	20 D Radius, 50 N, 25 Cycles	IEC-60794-1-21-E6
Water Penetration Test	1m water head, 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	-30° C to +70° C (-22° F to +158° F)	
Operation	-40° C to +70° C (-40° F to +158° F)	
Storage	-40° C to +70° C (-40° F to +158° F)	

Note: Change in attenuation after and before testing shall be ≤ 0.05 dB/km.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	6,562 13,123 ± 5% (13,123 km for up to 432F)	±5%	Max 5%, Customer Approval

For additional information please contact your sales representative.

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

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