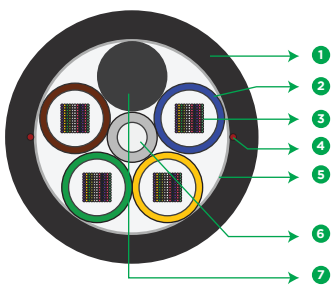


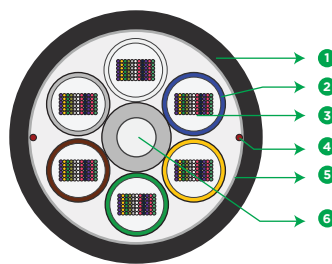
Ribbon-Lite

Multitube Gel Filled Ribbon OFC

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



5 Elements



6 Elements

- 1 OUTER JACKET
- 2 GEL FILLED LOOSE TUBE
- 3 RIBBON
- 4 RIPCORD(S)
- 5 WATER BLOCKING TAPE
- 6 STRENGTH MEMBER
- 7 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 Single Jacket Cable combines robust performance for high-count mass fusion splicing. The 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. The buffer tubes contain water blocking gel and are surrounded with water-swallowable tape to prevent water ingress in the cable which are stranded around the central strength member using reverse oscillation stranding method forming the cable core. This cable offers an outstanding solution for demanding high-growth, high-bandwidth communications applications like data centers, equipment connections within cabinets and outside plant applications.

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 DUCT 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
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%)
N10096S304GAP10000	96	4	Blue, Orange, Green, Filler, Filler	2	18.4 (0.72)	230 (0.15)
N10144S306GAP10000	144	6	Blue, Orange, Green, Brown, White	0	20.2 (0.79)	276 (0.19)
N10192S304GAP10000	192	4	Blue, Orange, Green, Brown, Filler	1	20.2 (0.79)	276 (0.19)
N10216S303GAP10000	216	3	Blue, Orange, Green, Filler, Filler	2	20.2 (0.79)	276 (0.19)
N10288S304GAP10000	288	4	Blue, Orange, Green, Brown, Filler	1	20.2 (0.79)	276 (0.19)
N10432S306GAP10000	432	6	Blue, Orange, Green, Brown, Slate, White	0	21.8 (0.86)	330 (0.22)
N10576S304GAP10000	576	4	Blue, Orange, Green, Brown, Filler	1	23.4 (0.92)	355 (0.24)
N10720S305GAP10000	720	5	Blue, Orange, Green, Brown, Slate, Filler	1	26.5 (1.04)	478 (0.32)
N10864S306GAP10000	864	6	Blue, Orange, Green, Brown, Slate, White	0	26.5 (1.04)	485 (0.33)

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)	220 (125.6)	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 ft. 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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