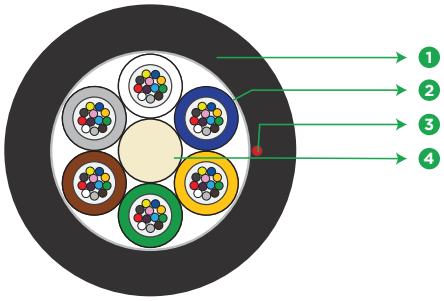
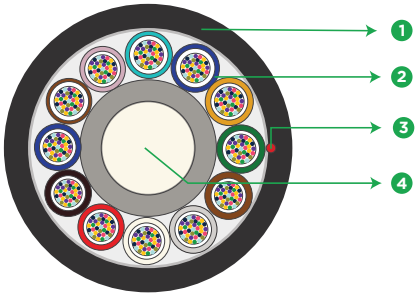
Product Specification

Micro-Lite

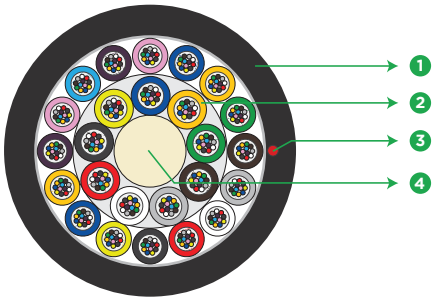
Multitube Gel Filled Single Sheath OFC
4F - 576F | Single Mode Fiber



6 Elements



12 Elements



24 Elements

1. OUTER JACKET
2. GEL FILLED TUBE
3. RIPCORD(S)
4. STRENGTH MEMBER

** Typical Construction Diagram - Not to Scale*

Features & Benefits

- Micro duct cables are smaller than standard duct cables, thus reducing the overall costs of transportation and storage and facilitating the installation procedures
- Excellent solutions for new and existing duct systems
- Easily removable rugged thermoplastic jacket, with UV protection
- Flexible, light weight, easy to handle and install

Product Details

STL Micro-LITE Multitube Single Jacket Fiber Optic Cables are typically used in micro duct or aerial drop installation applications. This cable is a stranded micro loose tube cable with optical Fiber placed inside robust buffer tubes stranded around a Fiber reinforced plastic (FRP) central strength member. In addition to optical Fibers, the buffer tubes contain water blocking gel to prevent water ingress in the cable.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794-5-10, ITU-T, RoHS, REACH.

Printing Details

Printing: STL SM “FIBER TYPE” “FIBER COUNT” MICRO 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 | STL Fiber ITU-T G.657.A1 200um
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD LDV (ps/sqrt.km)	≤ 0.1
Fibers per Tube	4 | 6 | 12 | 24
Tube Material	Polybutylene Terephthalate (PBT)
Central Strength Member	FRP (Fiber Reinforced Plastic)
Filler	Natural Colored Thermoplastic material
Core binder	Binder and water swellable yarns
No. of Ripcords Below Outer Sheath	1
Outer Sheath Material	UV Proof Polyethylene or Nylon

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

Cable Designs with G.652.D 250µm Fiber							
Product Code	**Fiber Count**	**No. of Tubes**	**Tube Color Sequence**	**Cable Diameter mm(inch) (+ 0.3)/ (0.01 in)**	**Cable Weight kg/km (lbs./ft.) (+ 10%)**	**Max. Tensile Strength N (lbf)**	**Duct ID mm (inch)**
C10004S301GAP10000	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	25 (0.016)	500 (112.4)	8 (0.314)
C10006S301GAP10000	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10012S301GAP10000	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10024S302GAP10000	24	2	Blue, Orange, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10036S303GAP10000	36	3	Blue, Orange, Green, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10048S304GAP10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10072S306GAP10000	72	6	Blue, Orange, Green, Brown, Slate, White	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10096S308GAP10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	6.5 (0.255)	40 (0.026)	800 (180.4)	10 (0.393)
C10144S306GAP10100	144	6	Blue, Orange, Green, Brown, Slate, White	7.6 (0.299)	48 (0.032)	100 (112.4)	10 (0.393)
C10144S312GAP10100	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	8.0 (0.314)	50 (0.033)	1000 (224.8)	10 (0.393)
C10288S324GAP10000	288	24	**1st Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow **2nd Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow,Violet, Rose, Aqua, Blue#, Orange#, Green#	9.4 (0.370)	72 (0.048)	1500 (337.2)	12 (0.472)

Cable Designs with G.657.A1 200µm Fiber							
Product Code	**Fiber Count**	**No. of Tubes**	**Tube Color Sequence**	**Cable Diameter mm(inch) (+ 0.3)/ (0.01 in)**	**Cable Weight kg/km (lbs./ft.) (+ 10%)**	**Max. Tensile Strength N (lbf)**	**Duct ID mm (inch)**
C20048S804GAP10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	4.6 (0.181)	20 (0.013)	500 (112.4)	8 (0.314)
C20072S806GAP10000	72	6	Blue, Orange, Green, Brown, Slate, White	4.6 (0.181)	20 (0.013)	500 (112.4)	8 (0.314)
C20096S808GAP10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	5.9 (0.232)	34 (0.022)	500 (112.4)	8 (0.314)
C20144S812GAP10000	144	12	Blue, Orange, Green,Brown,Slate, White, Red, Black, Yellow, Violet, Pink, Aqua	7.6 (0.299)	54 (0.036)	500 (112.4)	12 (0.472)
C20288S824GAP10000	288	24	**1st Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black,Yellow **2nd Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#	7.9 (0.311)	70 (0.047)	800 (180.4)	12 (0.472)
C20432S818GAP10000	432	18	**1st Layer** - Blue, Orange, Green, Brown, Slate, White **2nd Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua,	8.8 (0.346)	70 (0.047)	1000 (224.8)	12 (0.472)
C20576S824GAP10000	576	24	**1st Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow **2nd Layer** - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#	10.3 (0.405)	102 (0.068)	1000 (224.8)	14 (0.551)

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	**Cable Performance**	**Testing Standard**
Tensile Strength (N) (lbf)	As per above table	IEC-60794-1-21-E1
Crush Resistance (N/cm) (lbf/in)	50 (28.55)	IEC-60794-1-21-E3
Impact Strength (Nm) (lbf.in)	2 (17.7)	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-60794-1-21-F5
Drip Test	30 cm, 70° C, 24 h	IEC-60794-1-21-E14
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: All tests shall be carried out as per IEC standards.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123 | 20,000 ± 5% (For All Fiber Counts)	±5%	Max 5%, Customer Approval

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