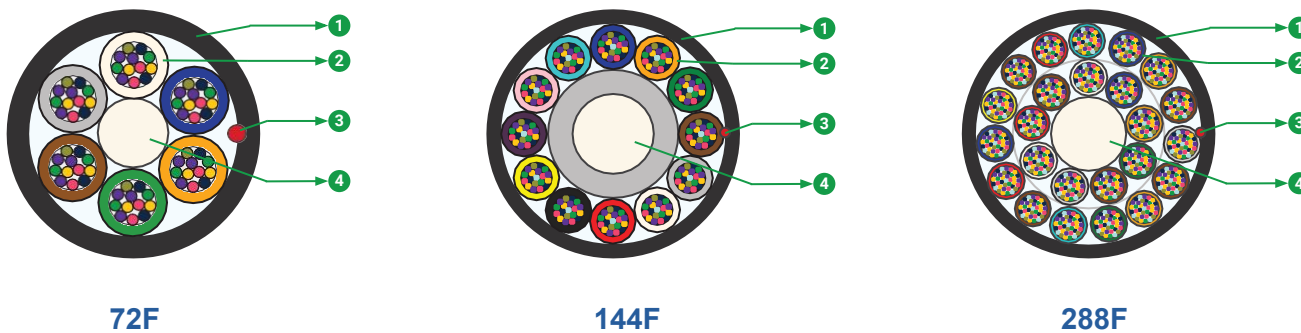


Micro-Lite

Multitube Single Sheath OFC

G.657.A1 and G.657.A2 Single Mode Fiber



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

* Typical Construction Diagram - Not to Scale

Features & Benefits

- As compared to conventional cable, Micro Cable diameter is less and thereby reducing installation costs
- Excellent solutions for new and existing duct systems
- Typically blown into micro ducts previously installed into large ducts
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Easily removable rugged thermoplastic jacket
- Flexible, light weight, easy to handle & 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, Telcordia GR-20, ITU-T, RoHS, REACH.

Printing Details

Printing : STL SM "TYPE" "COUNT" MICRO OFC LASER SYMBOL TELEPHONE SYMBOL "YEAR OF MANUFACTURE" "LENGTH CODE" "FEET 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	
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD LDV (ps/sqrt.km)	<= 0.1
Fibers per Tube	2, 4, 6, 12 or 24
Central Strength Member	FRP (Fiber Reinforced Plastic)
Filler	Thermoplastic material
Core binder	Binder and water swellable yarns
No. of Ripcords Below Outer Sheath	1
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
Blue*	Orange*	Green*	Brown*	Slate*	White*	Red*	Natural*	Yellow*	Violet*	Rose*	Aqua*

Note : * - denotes single black ring marking on Fibers

Cable Designs with STL Nova Fiber G.657.A1 250um (Also available in G.657.A2 Fiber)							
Product Code	Fiber Count	Tubes	Tube Color Sequence	Cable Diameter mm (inch) (± 0.3)/ (0.01 inch)	Cable Weight kg/km (lbs./ft.) (±10%)	Max. Tensile Strength N (lbf)	Duct ID mm (inch)
C10002SN01GAP10000	2	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	25 (0.016)	500 (112.4)	8 (0.314)
C10004SN01GAP10000	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	25 (0.016)	500 (112.4)	8 (0.314)
C10006SN01GAP10000	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10012SN01GAP10000	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10024SN02GAP10000	24	2	Blue, Orange, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10036SN03GAP10000	36	3	Blue, Orange, Green, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10048SN04GAP10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10072SN06GAP10000	72	6	Blue, Orange, Green, Brown, Slate, White	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10096SN08GAP10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	6.0 (0.236)	40 (0.026)	800 (180.4)	10 (0.393)
C10144SN06GAP10001	144	6	Blue, Orange, Green, Brown, Slate, White	7.600 (0.299)	35 (0.023)	500 (112.4)	8 (0.314)
C10144SN12GAP10001	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	8.000 (0.314)	54 (0.036)	1000 (224.8)	12 (0.472)

Specifications

Cable Designs with STL Nova Fiber G.657.A1 250um (Also available in G.657.A2 Fiber)							
Product Code	Fiber Count	Tubes	Tube Color Sequence	Cable Diameter mm (inch) (+ 0.3)/(0.01 inch)	Cable Weight kg/km (lbs./ft.) (±10%)	Max. Tensile Strength N (lbf)	Duct ID mm (inch)
C10288SN24GAP10001	288	24	1st Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow 2nd Layer -Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	9.4 (0.370)	72 (0.048)	1500 (337.2)	12 (0.472)
C10432SN18GAP10000	432	18	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#	12.5 (0.492)	118 (0.079)	500 (112.4)	18 (0.708)
C10576SN24GAP10000	576	24	1st Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow 2nd Layer -Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	13.4 (0.527)	130 (0.087)	1000 (224.8)	18 (0.708)

Note : # - denotes single black stripe marking on loose tubes.

Cable Designs with G.657A1 200um Fiber (Also available in G.657.A2 200um Fiber)							
Product Code	Fiber Count	Tubes	Tube Color Sequence	Cable Diameter mm (inch) (± 0.3)/(0.01 inch)	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 -Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	7.9 (0.311)	70 (0.047)	800 (180.4)	12 (0.472)

Specifications

Cable Designs with G.657A1 200um Fiber (Also available in G.657.A2 200um Fiber)							
Product Code	Fiber Count	Tubes	Tube Color Sequence	Cable Diameter mm (inch) (+ 0.3)/(0.01 inch)	Cable Weight kg/km (lbs./ft.) ($\pm 10\%$)	Max. Tensile Strength N (lbf)	Duct ID mm (inch)
C20432S818GAP10000	432	18	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange# Green#, Brown#, Slate#, White#	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 -Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	10.3 (0.405)	102 (0.068)	1000 (224.8)	14 (0.551)
C20864S924GAP10000	864	24	1st Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow 2nd Layer -Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	11.4 (0.448)	130 (0.087)	1000 (224.8)	14 (0.551)

Note : # - denotes single black stripe marking on loose tubes.

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard
Tensile Strength	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	$\pm 180^\circ$	IEC-60794-1-21-E7
Min. Bend Radius (During Installation)	20 D	IEC-60794-1-21-E11
Min. Bend Radius (After Installation)	15 D	IEC-60794-1-21-E11
Water Penetration Test	1m waterhead, 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	
Operation	-40°C to +70°C	
Storage	-40°C to +70°C	

Note : All tests shall be carried out as per IEC standards.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Tolerance	Short Lengths
Wooden Drums	10000; 13,123; 20,000 $\pm 5\%$ (For all Fiber counts)	-0%, +5%	Max 5%, Customer Approval

For additional information please contact your sales representative.

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