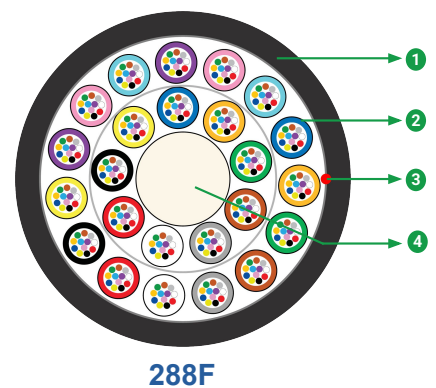
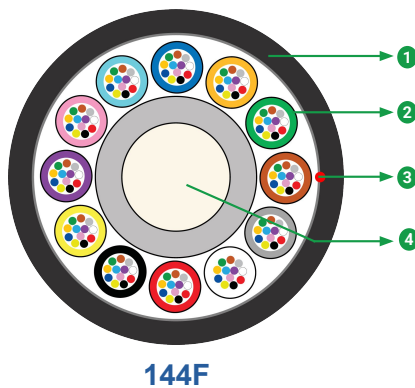
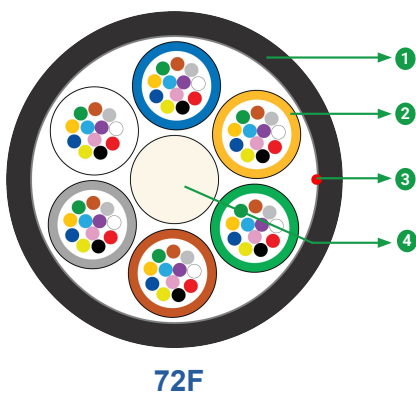
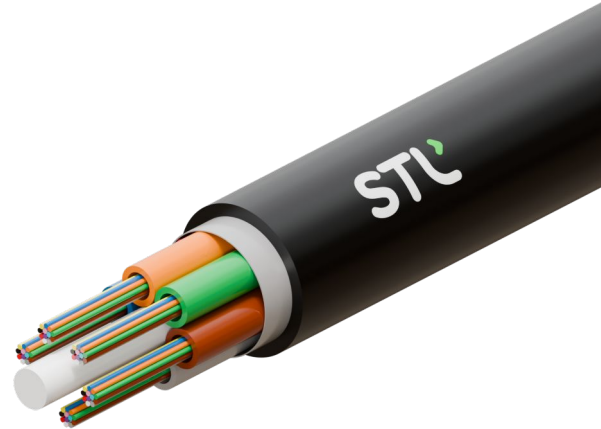


Micro-Lite

Multitube Single Sheath OFC
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 (for blowing) , 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

Note : * - denotes single black ring marking on Fibers

Cable Designs with 250µm 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)
C10002bb01GdP10000	2	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	25 (0.016)	500 (112.4)	8 (0.314)
C10004bb01GdP10000	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	25 (0.016)	500 (112.4)	8 (0.314)
C10006bb01GdP10000	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10012bb01GdP10000	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10024bb02GdP10000	24	2	Blue, Orange, Filler, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10036bb03GdP10000	36	3	Blue, Orange, Green, Filler, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10048bb04GdP10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10072bb06GdP10000	72	6	Blue, Orange, Green, Brown, Slate, White	5.7 (0.224)	28 (0.018)	500 (112.4)	8 (0.314)
C10096bb08GdP10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	6.0 (0.236)	40 (0.026)	800 (180.0)	10 (0.393)
C10144bb06GdP10000	144	6	Blue, Orange, Green, Brown, Slate, White	7.0 (0.276)	42 (0.028)	1000 (224.8)	10 (0.393)
C10144bb12GdP10000	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	8.0 (0.314)	50 (0.033)	1000 (224.8)	12 (0.472)

Specifications

Cable Designs with 250µm 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)
C10288bb24GdP10000	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)
C10432bb18GdP10000	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)	1000 (224.8)	18 (0.708)
C10576bb24GdP10000	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 200µm 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)
C20048bb04GdP10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	4.6 (0.181)	20 (0.013)	500 (112.4)	8 (0.314)
C20072bb06GdP10000	72	6	Blue, Orange, Green, Brown, Slate, White	4.6 (0.181)	20 (0.013)	500 (112.4)	8 (0.314)
C20096bb08GdP10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	5.9 (0.232)	34 (0.022)	500 (112.4)	8 (0.314)
C20144bb12GdP10000	144	06	Blue, Orange, Green, Brown, Slate, White	6 (0.236)	35 (0.023)	500 (112.4)	8 (0.314)
C20288bb24GdP10000	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 200µm 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)
C20432bb18GdP10000	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)
C20576bb24GdP10000	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)

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/10cm)	500	IEC-60794-1-21-E3A
Impact Strength(N-m)	2	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Repeated Bending	20 x OD	IEC-60794-1-21-E6
Bend	20 x OD	IEC 60794 1 21 E11A
Min. Bend Radius (During Installation)	20 D	
Min. Bend Radius (After Installation)	15 D	
Water Penetration Test	1m waterhead, 3m samples, 24 h	IEC-60794-1-21-F5B
Drip Test	30 cm, 70°C, 24 hr	IEC-60794-1-21-E14
Temperature Performance	Max. change in attenuation shall be <= 0.15 dB/km	IEC-60794-1-22-F1
Installation	-5° C to +50° C	-15° C to +60° C at $\Delta\alpha^4$ <= 0.05 dB/km -30° C to +60° C at $\Delta\alpha$ <= 0.15 dB/km
Operation	-30° C to +60° C	
Storage	-40° C to +70° C	

Note : All tests shall be performed according to the relevant methods of the IEC 60794-1 -21/22 at $\Delta\alpha$ <= 0.05 dB/km.

⁴In addition as per IEC 60794-1-1 less than 10% fibers may have $\Delta\alpha$ <= 0.1dB/km.

Packing and Lengths

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

Ordering Information

Other Fibers counts, types and colors sequences may be available on request, please create product code from the table below.

Product type (aa)	Fiber count (0012 - 0576)				Fiber Code/ type (bb)	No. of active tubes (01-24)		Cable core type (c)	Fibers/tubes color code (d)	Jacke type (ee)		Running number		Special requirement (ff)	
1	2				3	4			5						
-	-	-	-	-	-	-	-	G	-	P	1	0	0	0	0

1. aa - Product type

4. Number of active tubes : 01 to 24

Code	Cable Design
C1	Micro-Lite cable with 250µm fibers
C2	Micro-Lite cable with 200µm fibers

2. Fiber count by indicating the corresponding number from 0002 to 0576

5. d - Fibers and tubes color code available options

Code	Fibers and tubes color codes
A	EIA/TIA 598 C

3. bb - Fiber code corresponding to requested fiber type among following options:

Fiber code	Fiber type (ITU-T)	STL's Fiber Name	Mode Field Diameter (MFD) @1310 nm (µm)
SN ¹	G.657 A1/G.652 D	Nova 250*	9.2 ± 0.4
SL ²	G.657 A1/G.652 D	Nova 250*	9.2 ± 0.4
S2	G.657 A2	HD A2 250*	8.6 ± 0.4
N1	G.657 A1/G.652 D 200µm	Nova 200**	9.2 ± 0.4
S9	G.657 A2 200µm	HD A2 200**	8.6 ± 0.4
Note: *Only for Product type "C1" cables. **Only for Product type "C2" cables. ¹ Cables made in India with Nova Fiber ² Cables made in USA with Nova Fiber			

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