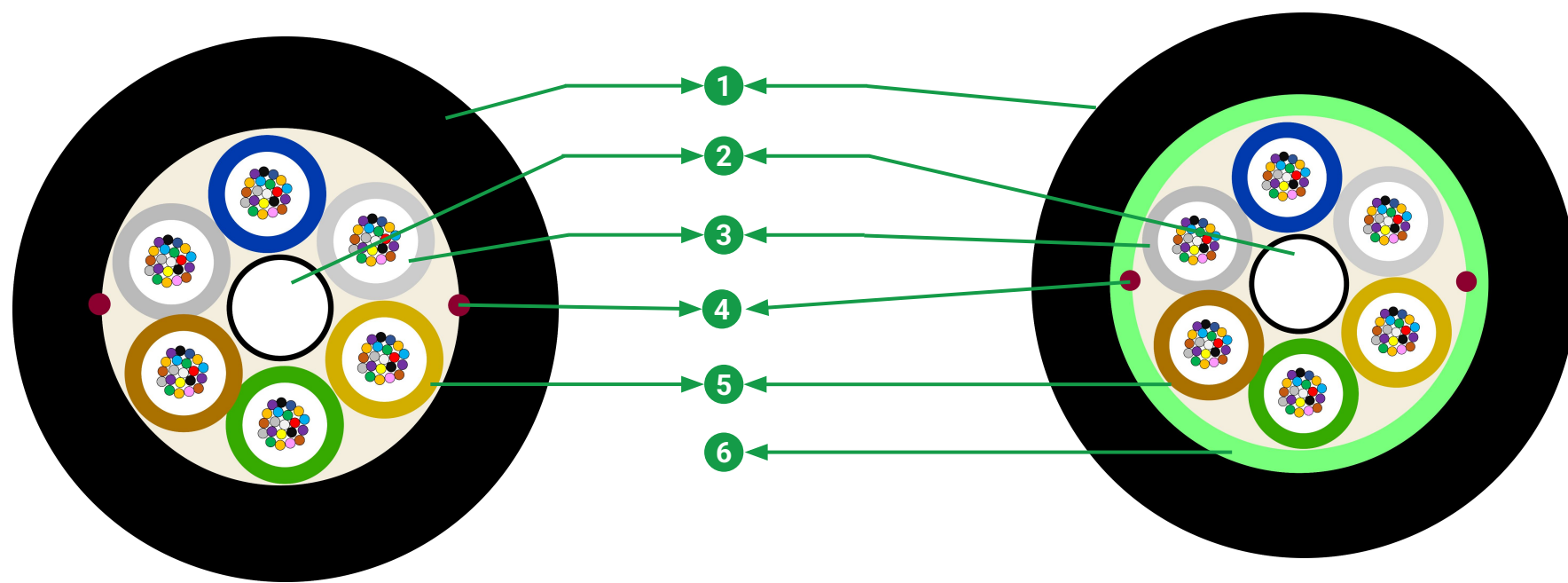


RapidTube

MLT OFC - Duct & Armored



Single Jacket Dielectric Design

Single Jacket Armored Design

- 1 OUTER JACKET
- 2 STRENGTH MEMBER
- 3 LOOSE TUBES
- 4 RIPCORD(S)
- 5 WATER BLOCKING TAPE
- 6 CORRUGATED STEEL TAPE

* Typical Construction Diagram - Not to Scale

Features & Benefits

- **Dry Core with Buffer Tubes:** Water-blocking element in buffer tubes paired with dry core design accelerates end preparation and ensures robust protection against water ingress, enhancing cable reliability in diverse environments.
- **Flexible, Lightweight & Easy to Handle:** Designed for effortless installation, the cable's lightweight construction and flexibility reduce deployment strain—perfect for both duct and direct burial applications.
- **UV-Resistant Thermoplastic Jacket:** The rugged outer jacket is UV-protected and engineered for harsh outdoor conditions. It's also easily removable, saving time during cable termination or mid-span access.
- **Rapid Mid-Span Access:** Integrated ripcords enable quick and clean access to fibers without complex tools, making it ideal for network branching and maintenance.
- **Rodent, Crush & Impact Protection (Armored Version):** A PE outer jacket with corrugated steel tape armor delivers superior resistance against rodent attacks, crushing forces, and physical impact—ensuring long-term cable performance.
- **Post-Installation Cable Locating:** The steel tape not only reinforces the structure but also allows for accurate post-installation location tracking, aiding future upgrades or maintenance.

Product Details

STL RapidTube is a robust, multitube fiber optic cable designed for both **duct and direct burial applications**. It features **dry core construction** with **water-blocking elements in buffer tubes** and **swellable tape** around the core to prevent water ingress.

Reverse oscillation stranding ensures flexibility and fiber integrity, while an optional **corrugated steel tape armor** enhances protection in harsh environments. The entire core is encased in a **rugged, UV-resistant thermoplastic jacket**, making the cable **durable, easy to install, and field-ready**.

A reliable, high-performance choice for long-lasting connectivity in challenging terrains.

Fibers and Cable Performance Standards

Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Specifications

Physical Characteristics		
	Gel Free	Gel Filled
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.25	
PMD/LDV (ps/sqrt.km)	≤ 0.1	
Tube Material	Polypropylene (PP)	Polybutylene terephthalate(PBT)
Loose Tube Size	2.4 mm (Typical)	
Central Strength Members	FRP (Fiber Reinforced Plastic)	
Filler	Thermoplastic Material	
Core Wrapping	Binder and water swellable tape	
Metallic Armoring (For Armored Design)	Corrugated Steel Tape (Un-bonded with Jacket)	
No. of Ripcords	2	
Outer Jacket Material	UV Proof Black Polyethylene	

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

Cable Characteristics - Gel Free						
Product Code ¹	Fiber count	No. of Tubes	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%
			Single Jacket Dielectric Design		Single Jacket Armored Design	
aa0004bb01FAee0000	4	1	10.6 (0.417)	74 (0.049)	12.6 (0.496)	140 (0.094)
aa0006bb01FAee0000	6	1				
aa0008bb01FAee0000	8	1				
aa0012bb01FAee0000	12	1				
aa0024bb02FAee0000	24	2				
aa0048bb04FAee0000	48	4				
aa0060bb05FAee0000	60	5				
aa0072bb06FAee0000	72	6	12.5 (0.484)	88 (0.059)	14.3 (0.562)	160 (0.107)
aa0084bb07FAee0000	84	7				
aa0096bb08FAee0000	96	8	15.7 (0.622)	140 (0.094)	17.8 (0.700)	234 (0.157)
aa0144bb12FAee0000	144	12				
aa0216bb18FAee0000	216	18	18.2 (0.716)	172 (0.115)	20.2 (0.795)	275 (0.184)
aa0288bb24FAee0000	288	24				
aa0432bb36FAee0000	432	36	22.4 (0.881)	240 (0.161)	23.4 (0.921)	350 (0.228)

Note ¹: This is the recommended product code nomenclature. Refer to Ordering Information at the end of this document for details.

Cable Characteristics - Gel Filled						
Product Code ¹	Fiber count	No. of Tubes	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%
			Single Jacket Dielectric Design		Single Jacket Armored Design	
aa0004bb01GAee0000	4	1	10.4 (0.409)	80 (0.054)	12.2 (0.480)	132 (0.088)
aa0006bb01GAee0000	6	1				
aa0008bb01GAee0000	8	1				
aa0012bb01GAee0000	12	1				
aa0024bb02GAee0000	24	2				
aa0048bb04GAee0000	48	4				
aa0060bb05GAee0000	60	5				
aa0072bb06GAee0000	72	6				
aa0084bb07GAee0000	84	7	12.2 (0.480)	115 (0.077)	13.8 (0.543)	170 (0.114)
aa0096bb08GAee0000	96	8				
aa0144bb12GAee0000	144	12	15.5 (0.610)	180 (0.121)	17.2 (0.677)	242 (0.162)
aa0216bb18GAee0000	216	18				
aa0288bb24GAee0000	288	24	18.0 (0.708)	254 (0.171)	19.6 (0.771)	342 (0.230)

Note ¹: This is the recommended product code nomenclature. Refer to Ordering Information at the end of this document for details.

Specifications

Mechanical & Environmental Characteristics ²			
Cable Characteristics		Cable Performance	Testing Standard Method
Tensile Strength		Short Term - 2700 (606.9) Long Term - 900 (202.3)	ICEA 640 FOTP-33
Crush Resistance (N/cm) (lbf/in)	Dielectric Design	220 (125)	ICEA 640 FOTP-41
	Armored Design	300 (171)	ICEA 640 FOTP-41
Impact Strength(Nm)		As per GR-20 compliance	ICEA 640 FOTP-25
Torsion		±180°	ICEA 640 FOTP-85
Min. Bend Radius (During Installation)		20 D	ICEA 640 FOTP-88
Min. Bend Radius (After Installation)		15 D	ICEA 640 FOTP-88
Water Penetration Test		1m head, 3m samples, 24 hrs	ICEA 640 FOTP-82
Temperature Performance		Max. change in attenuation shall be ≤ 0.15 dB/km	ICEA 640 FOTP-3
Installation		-30° C to +70° C	
Operation		-40° C to +70° C	
Storage		-40° C to +70° C	

Note ²: All tests shall be carried out as per ICEA standards. Change in attenuation after and before testing shall be ≤ 0.05 dB/km for Single Mode fiber.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	10,000; 20,000 ± 5% (All Fiber Counts)	-0%, +5%	Max 5%, Customer Approval

Ordering Information

Optical fiber cable in other fiber types may be available on request, please create product code from the table below. Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Product Type (aa)		Fiber Count				Fiber Code/Type (bb)		No. of Active Tubes		Cable Core Type (c)	Fibers Color Code (d)	Jacket/ sheath Type (ee)		Running Number		Special Request (ff)	
1		2				3		4		5	6	7		8		9	
-	-	-	-	-	-	-	-	-	-	F	A	-	-	0	0	0	0

Create the desired Product Code following the instructions below:

1. aa - Product Type			
Code	Product Type		
D1	Multi Loose Tube Single Jacket Dielectric Cable		
B1	Multi Loose Tube Single Jacket Steel Tape Armored Cable		
2. Fiber Count - Refer to Product Code in Cable Characteristics Table			
3. bb - Fiber Type Code Corresponding to Requested Fiber Type Among Following Options			
Code	Fiber Type (ITU-T)	STL’s Fiber Name	Mode Field Diameter MFD ±0.4(μm) at 1310 nm
SN ¹	G.657 A1/ G.652.D	Nova 250	9.2
SL ²	G.657 A1/ G.652.D	Nova 250	9.2
¹ Cables made in India with Nova Fiber ² Cables made in USA with Nova Fiber			
4. Number of Active Tubes - Refer to Product Code in Cable Characteristics Table			
5. c - Cable Core Type			
Code	Cable Core Type		
F	Dry Tube/ Dry Core		
G	Gel Tube/ Dry Core		
6. d - Fibers Color Code			
Code	Fibers Color		
A	A- EIA/TIA 598 C- Blue to Aqua		
7. ee - Jacket Type			
Code	Jacket Type		
P1	PE (For Single Jacket Dielectric Designs)		
BU	ECCS (Unbonded) + PE (For Single Armor Single Jacket Designs)		

For additional information please contact your sales representative.

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