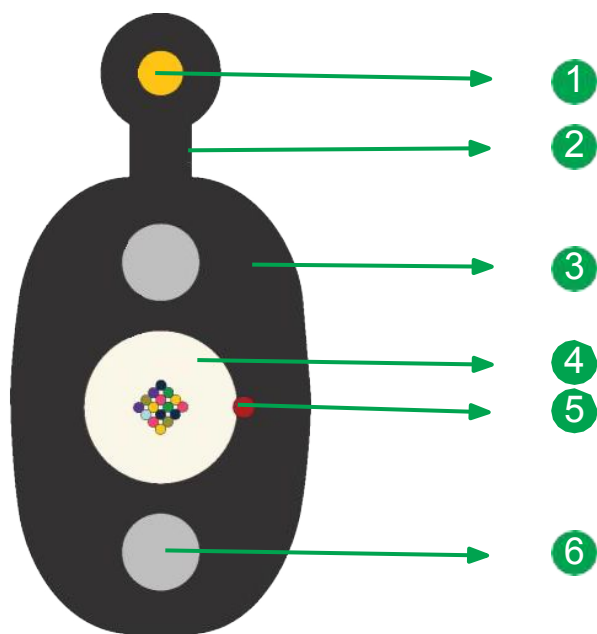
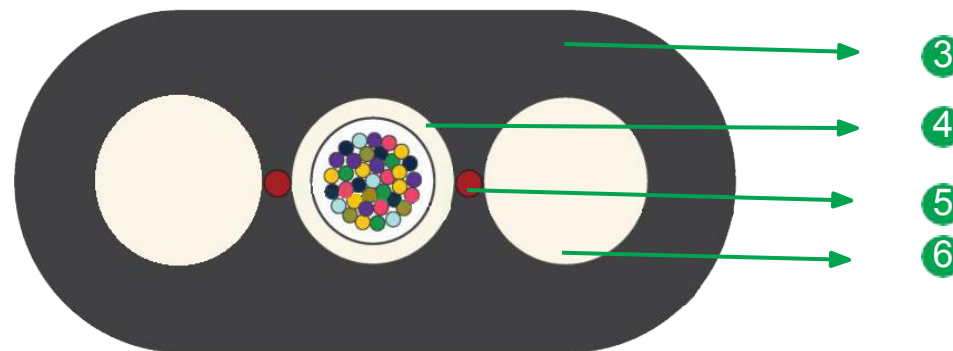


RapidDrop

Flat Unitube Drop OFC



Toneable Flat Unitube Design



Flat Unitube Dielectric Design

1 24 AWG Cu TONING WIRE

2 NECK

3 OUTER JACKET

4 LOOSE TUBE WITH FIBER AND GEL

5 RIPCORD(S)

6 STRENGTH MEMBER

* Typical Construction Diagram - Not to Scale

Features & Benefits

- **Exceptional Anti-Buckling Properties:** The embedded strength members provide unparalleled resistance against buckling, ensuring the structural integrity of the fiber optic cable even in challenging environmental conditions.
- **Advanced Longitudinal Water Protection:** Our cables are equipped with specialized water blocking compounds within the tube, offering superior longitudinal water protection. This safeguards the transmission quality and longevity of the cable in wet or humid environments.
- **Streamlined Fiber Access:** The Unitube construction facilitates easy access to individual fibers, streamlining installation, maintenance, and upgrades. This design optimizes operational efficiency and minimizes downtime.
- **High Tensile and Crush Resistance:** Engineered for maximum strength, our cables boast high tensile and crush resistance. This ensures reliable performance under various physical stresses, safeguarding the cable during installation and in challenging terrains. Also, available with steel wire as embedded strength member for higher tensile strengths.

Product Details

STL RapidDrop flat single jacket fiber optic cable offers a streamlined solution for effortless installation and reliable performance. This single-tube cable features thixotropic gel-filled tubes protecting optical fibers, housed in a thermoplastic jacket with two embedded strength members for anti-buckling. The dielectric version eliminates bonding and grounding requirements, prioritizing safety. For enhanced functionality, the Toneable Fiber Optic Cable adds a 24 AWG conductor, aiding underground location tracing. Its web-attached design allows easy tear-away separation, making it a popular choice for underground and multipurpose installations.

Fibers and Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ANSI/ICEA S-87-717, Telcordia GR-20, ITU-T, RoHS, REACH, EIA/TIA-598C.

Specifications

Physical Characteristics	
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.23
PMD/LDV (ps/sqrt.km)	≤ 0.1
Tube Size (mm)	2.4
No. of Tubes	1
Tube Color Sequence	White
Outer Jacket Material	UV Proof Black Polyethylene
Nominal Jacket Thickness (mm)	1.1
No. of Ripcords Below Jacket	2
Copper Wire Diameter (mm) - Optional	0.5 (24 AWG Cu Toning Wire)

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

Cable Characteristics					
Product Code ¹ (aa)	Fiber Count	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%
		Flat Unitube Drop Cable		Toneable Flat Unitube Drop Cable	
aa0002SN01GAP10001	2	4.4 x 8.4 (0.173 x 0.33)	38 (0.025)	4.2 x 10 (0.165 x 0.393)	48 (0.032)
aa0004SN01GAP10001	4				
aa0006SN01GAP10001	6				
aa0008SN01GAP10001	8				
aa0012SN01GAP10001	12	5.0 x 9.5 (0.196 x 0.374)	60 (0.040)	5 x 10.8 (0.196 x 0.425)	58 (0.038)
aa0024SN01GAP10001	24				

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	1335 (300.11)	ICEA 717 FOTP-33
Crush Resistance (N/cm) (lbf/in)	100 (57.101)	ICEA 717 FOTP-41
Impact Strength(Nm)	5 (44.2)	ICEA 717 FOTP-25
Torsion	±180°	ICEA 717 FOTP-85
Min. Bend Radius (During Installation)	20 D	ICEA 717 FOTP-88
Min. Bend Radius (After Installation)	15 D	ICEA 717 FOTP-88
Water Penetration Test	1m head, 3m samples, 24 hrs	ICEA 717 FOTP-82
Drip Test	30 cm, 70° C, 24 h	ICEA 717 FOTP-81
Temperature Performance	Max. change in attenuation shall be ≤ 0.15 dB/km	ICEA 717 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.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123; 20,000 ± 5% (All Flber 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, IEC 60794, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH, EIA/TIA-598C.

Product Type (aa)		Fiber Count				Fiber 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	
-	-	-	-	-	-	-	-	0	1	G	A	P	1	0	0	-	-

Create the desired product code following the instructions below:

1.aa - Product Type			
Code	Product Type		
F5	Flat Unitube Drop Cable		
F7	Toneable Flat Unitube Drop 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			
Fiber Code	Fiber Type (ITU-T)	STL’s Fiber Name	Mode Field Diameter MFD ±0.4(μm) at 1310 nm
SN	G.657.A1/ G.652.D	STL Nova 250 Fiber	9.1
4. Number of Active Tube - 01			
5. c - Cable Core Type			
Code	Core Type		
G	Gel Tube/ Dry Core		
6. d - Fiber Color Code			
Code	Fiber Color		
A	A- EIA/TIA 598 C- Blue to Aqua		
7. ee - Jacket/Sheath Type			
Code	Jacket Type		
P1	PE		
9. ff - Special Request			
Code	Special Request		
01	Toning Wire - Copper		

For additional information please contact your sales representative.

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

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