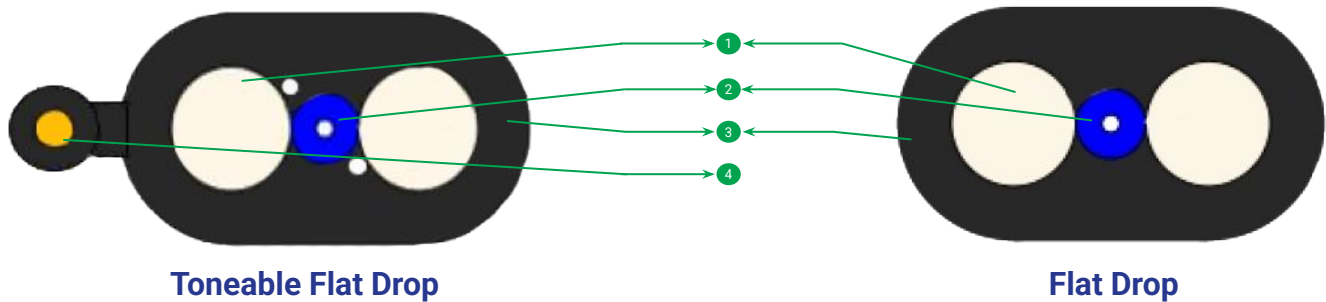


Tight Buffer

Drop-Lite Toneable/Flat Drop Cable



- 1 STRENGTH MEMBER 2 TIGHT BUFFERED TUBE 3 OUTER JACKET 4 TONING WIRE

* Typical Construction Diagram - Not to Scale

Features & Benefits

- **Bend-Insensitive Fiber Technology:** Equipped with STL's HD A2 250µm fiber for superior bend performance in tight, last-mile installations.
- **Built-In Strength Members:** Dual embedded strength elements provide excellent anti-buckling properties and mechanical stability.
- **Quick Fiber Access:** Tight buffer construction allows for fast and tool-friendly fiber access during termination or repair.
- **Integrated Toning Wire:** Toneable design enables easy underground cable locating, improving maintenance and fault detection accuracy.
- **Tough & Durable:** High resistance to tensile stress and crush impact ensures long-lasting performance in demanding environments.
- **UV-Protected Sheath:** Weather-resistant outer jacket safeguards the cable from long-term sun exposure and outdoor conditions.

Product Details

STL's Drop-Lite Flat Drop Cable is purpose-built for last-mile fiber deployments in FTTH and broadband networks. Featuring a rugged, tight-buffered 1F design, it delivers outstanding flexibility, strength, and install-friendliness across both aerial and buried environments.

At its core is STL's low-bend loss HD A2 fiber (250 µm), optimized for tight routing with minimal signal degradation. Integrated strength members enhance anti-buckling resilience, ensuring stable performance under mechanical stress. Its toneable construction includes a dedicated wire for accurate underground detection, streamlining maintenance and fault location.

Engineered to withstand outdoor challenges, the cable is UV-protected, crush- and tensile-resistant, and designed for long-term reliability in real-world conditions — a smart, durable solution for fast, efficient network buildouts.

Fibers and Cable Performance Standards

Cable complies with the following standards IEC 60793, IEC 60794-1-22/21, ITU-T, RoHS, REACH.

Printing Details

Printing: STERLITE SM 1F G657A2 TIGHT BUFFER FLAT DROP TONEABLE LASER SYMBOL TELEPHONE YEAR OF MANUFACTURE LENGTH CODE 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.

Specifications

Physical Characteristics		
	Toneable Flat Drop	Flat Drop (Non-Toneable)
Fibre Count	1	
Fibre Type	STL HD A2 250um	
Maximum Cabled Attenuation (dB/km)	1310nm : 0.4 & 1550nm : 0.3	
Fibre dimensions	Cladding Diameter 124.7 + 0.3 μ m Coating Diameter Uncolored fibre 242 + 5 μ m	
Number of Tight Buffer	1 nos.	
Tight buffer diameter	900 um nominal	
Tight buffer colour	Blue	
Embedded Strength Member	FRP (Fibre Reinforced Plastic)	
No. of Embedded Strength Member	2	
Water swellable material	Waters swellable yarns	
Outer Sheath Material	UV Proof Black Polyethylene	
Nominal Copper wire Diameter (mm)	0.5 (24 AWG Cu TONING WIRE)	NA
Nominal Cable Dimensions (mm)	3 x 6.8 $\pm$ 0.3	3 x 5 $\pm$ 0.3
Nominal Cable Weight (kg/km)	23 $\pm$ 10%	18 $\pm$ 10%

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	ICEA 640 FOTP-33	Short term - 1350 (300 lbf) Long term - 400 (90 lbf)
Crush Resistance (N/100 mm)	ICEA 640 FOTP-41	1000 (57 lbf/in)
Impact Strength(Nm)	ICEA 640 FOTP-25	2.9 (25 lbf.in)
Torsion	ICEA 640 FOTP-85	$\pm$ 180°
Min. Bend Radius (During Installation)	ICEA 640 FOTP-88	24 D
Min. Bend Radius (After Installation)	ICEA 640 FOTP-88	12 D
Water Penetration Test	ICEA 640 FOTP-82	1m waterhead, 3m samples, 24 h
Temperature Performance	ICEA 640 FOTP-3	
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 ICEA standards.

Aerial Installation guide, Sag Chart

Loading Condition ; NESC Environment	1% Installation Sag, Max span length, m (ft)	Resultant sag at Environmental loading (%)	3% Installation Sag, Max span length , m (ft)	Resultant sag at Environmental loading (%)
Light	100 (328)	3.0	140 (459)	4.3
Medium	80 (262)	3.7	100 (328)	4.7
Heavy	46 (151)	4.1	58 (190)	5.0

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	1000 / 2000 $\pm$ 5%	$\pm$ 5%	Max 5%, Customer Approval

For additional information please contact your sales representative.

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

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