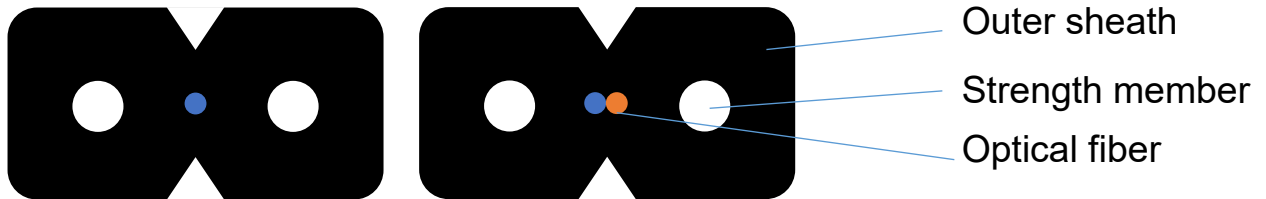




## DROP FIBER OPTIC CABLE LOW FRICTION NON-FLAMMABLE INDOOR FLAT DROP G.657A2 1~2C

### Cable Structure

#### 1) Cross Section



#### 2) Construction

Structure	Material	Specification	
		1C	2C
Optical Fiber	Fiber	G.657A2	
	Color	Blue	Blue & Orange
Strength Member	FRP	0.5±0.05mm 2ea	
Outer Sheath	LSZH	UV Resistance	
	Color	Black	
Cable	Size	2.0±0.2 mm Width * 3.0±0.3mm Height	
	Weight	Nom. 7 lbs per 1,000ft or 11 kg/km	
Marking		Indent , 1m or 2ft	

Product:  
Non-Flammable Indoor Flat Drop

Spec. No.:  
LA-FD-01FA2TB-16007N (for 1C)  
LA-FD-02FA2TB-16007N (for 2C)

## Optical Fiber Characteristics

### 1) Single mode fiber (ITU-T G.657A2)

Parameter	Value
Attenuation coefficient	
@ 1310 nm	$\leq 0.38\text{dB/km}$
@ 1383 nm	$\leq 0.36\text{dB/km}$
@ 1550 nm	$\leq 0.25\text{dB/km}$
@ 1625 nm	$\leq 0.30\text{dB/km}$
PMD	$\leq 0.2 \text{ dB}(\text{ps/km}^{1/2})$
Cable cut-off wavelength	$\leq 1260 \text{ nm}$
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	$\leq 0.092 \text{ ps}/(\text{nm}^2.\text{km})$
Chromatic dispersion	
@ 1285 ~ 1330 nm	$\leq 3.2 \text{ ps}/(\text{nm}^2.\text{km})$
@ 1550 nm	$\leq 18.0 \text{ ps}/(\text{nm}^2.\text{km})$
Mode field diameter @ 1310 nm	$8.6 \pm 0.4 \text{ }\mu\text{m}$
Core/Clad concentricity error	$\leq 0.5 \text{ }\mu\text{m}$
Cladding diameter	$125.0 \pm 1.0 \text{ }\mu\text{m}$
Cladding non-circularity	$\leq 0.5 \%$
Primary Coating diameter	$245 \pm 5\text{ }\mu\text{m}$
Refractive index	1.4690 @ 1310 nm 1.4695 @ 1550 nm
Proof test level	100 kpsi, 1%

## Mechanical Properties

### 1) Mechanical & Environmental properties

- Cable bending radius: 20 x cable diameter (Installation), 10 x cable diameter (Operation)
- Operating/Storage temperature range: -20°C to +60°C
- Installation temperature range: -20°C to +60°C

### 2) Mechanical & Environmental requirements

No	Item	Test Method	Value
1	Tensile load IEC60794-1-E1	- Load : 230N - Length: 100 m - Time: 10 mins.	Loss change ≤ 0.1 dB @1550 nm
2	Crush test IEC60794-1-E3	- Load : 48 N /cm - Time: 15 mins.	Loss change ≤ 0.1 dB @1550 nm
3	Bending test IEC60794-1-E11A	- Mandrel dia. 20 x cable diameter - Load: 2 kgf - Number of cycle: 25	Loss change ≤ 0.1 dB @1550 nm
4	Impact test IEC60794-1-E4	- Radius of impacted surface: 25 mm - Impact load: 0.74 N.m - Number of impacts : 3	Loss change ≤ 0.1 dB @1550 nm
5	Torsion IEC60794-1-E7	- Length: 2 m - Twist angle: ±180° - No. of cycle : 10	Loss change ≤ 0.1 dB @1550 nm
6	Temperature Cycling IEC60794-1-F1	- Length : 1,000m: 20°C→-20°C→+40°C→-10°C→+40°C→20°C - Number of cycle: 1 - Time per step: 24 hours	Loss change ≤ 0.1 dB @1550 nm
7	Flame rating test IEC60332-1-2	- Time for flame application : 60sec - Length : 600mm	The total length must not burn
8	Water penetration IEC60794-1-2	- Length : 2m (horizontal install) - Water tank height : 1m - time : 24h	No leak

## Packing and Marking

### 1) Marking

#### **0000FT LEXINGTON AMES FLAT DROP G.657A2 0F 2019**

- 0000FT: figure of meter or foot
- The marking is printed every 1 meter or 2 feet

### 2) Packing

- Plastic Bobbin in Pull-out Box
- 3,281ft/Drum

Drum					Box			Pallet			
Material	Size(mm)				Weight (kg/ea)	material	Size (mm)	Weight (kg/ea)	material	Size (mm)	Weight (kg/ea)
	D1	d1	W	a							
MDF	300	150	260	30	18	Kraft liner brown	385* 350*335	1.5	Wooden	1700* 1100*1100	

