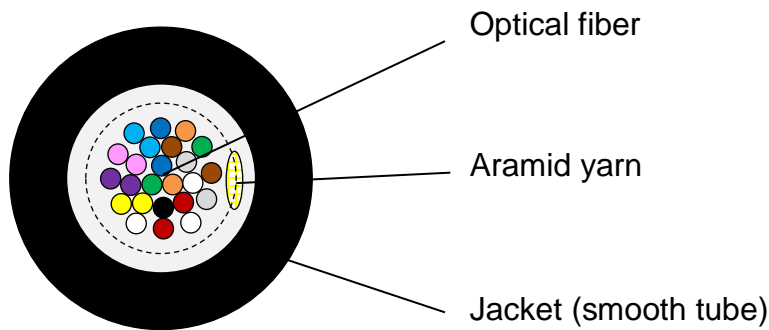




**DROP FIBER OPTIC CABLE  
PUSHABLE/BLOWABLE ROUND TUBE G.652D / G.657A UP TO 24C  
REFERENCE: IEC 60793, 60794, ITU-T G.650, G.652D, G.657A1, G.657A2**

**Cable Structure**

**1) Cross Section**



**2) Construction**

Structure	Material	Value	
Optical Fiber	Fiber Count	1~12F	14~24F
	Fiber	G.652D / G.657A1 / G.657A2	
	Color Coding	TIA 598-D	
Outer Sheath	PBT Tube	3.0 mm	4.0 mm
	Filling Compound	Thixotropic jelly or Dry blocking	
	Strength Material	Aramid yarn	
Installation Strength		100 N	
Temperature Range	Operating	-40 °C to +80 °C	
	Installation	-20 °C to +60 °C	
Cable weight (kg/km)		8.5 kg/km	15 kg/km

## Optical Fiber Characteristics

### 1) Single mode fiber

Characteristics of fiber		Description and value						
Type of Fiber		G.652.D		G.657.A1		G.657.A2		
Mode Field Diameter @ 1310nm		9.2 ± 0.4 μm		8.9 ± 0.4 μm		8.6 ± 0.4 μm		
Mode Field Concentricity Error		≤ 0.6 μm		≤ 0.6 μm		≤ 0.6 μm		
Cladding Diameter		125 ± 0.7 μm		125 ± 0.7 μm		125 ± 0.7 μm		
Cladding Non Circularity		≤ 1%		≤ 1%		≤ 1%		
Coating Diameter	Uncolored	245 ± 10 μm		245 ± 10 μm		245 ± 10 μm		
	Colored	250 ± 10 μm		250 ± 10 μm		250 ± 10 μm		
Attenuation	@ 1310nm	≤ 0.35 dB/km		≤ 0.35 dB/km		≤ 0.35 dB/km		
	@ 1383nm	≤ 0.35 dB/km		≤ 0.35 dB/km		≤ 0.35 dB/km		
	@ 1550nm	≤ 0.25 dB/km		≤ 0.25 dB/km		≤ 0.25 dB/km		
Dispersion	@ 1285~1330nm	≤ 3.5 ps/(nm.km)		≤ 3.5 ps/(nm.km)		≤ 3.5 ps/(nm.km)		
	@ 1550nm	≤ 18 ps/(nm.km)		≤ 18 ps/(nm.km)		≤ 18 ps/(nm.km)		
Zero Dispersion Wavelength		1300nm - 1324nm		1300nm - 1324nm		1300nm - 1324nm		
Cable Cut off Wavelength		≤ 1260nm		≤ 1260nm		≤ 1260nm		
Zero Dispersion Slope		≤ 0.092 ps/(nm <sup>2</sup> .km)		≤ 0.092 ps/(nm <sup>2</sup> .km)		≤ 0.092 ps/(nm <sup>2</sup> .km)		
Fiber Proof Test Level		100kpi (0.69Gpa)		100kpi (0.69Gpa)		100kpi (0.69Gpa)		
Uncabled fiber macrobending loss	Radius (mm)	30	25	15	10	15	10	7.5
	Number of turns	100	100	10	1	10	1	1
	dB @ 1550nm	-	0.05	0.25	0.75	0.03	0.1	0.5
	dB @ 1625nm	0.05	-	1.0	1.5	0.1	0.2	1.0

## Packing and Marking

### 1) Marking

**0000FT LEXINGTON AMES PUSHABLE DROP G.652D 12F 2019**

- 0000FT: figure of meter or foot
- The marking is printed every 1 meter or 3 feet

### 2) Packing

- Plywood Bobbin
- Box
- 1,000ft/Drum