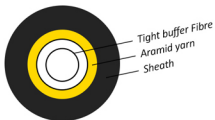


Indoor Round Drop Cable (White)



STRUCTURE DIAGRAM & DESCRIPTION

The optical fibre unit is positioned in the centre. Two parallel Steel wire are placed at the two sides. Then the cable is completed with a black LSZH sheath.

Characteristics

- 1) Simple structure, light weight, high tensile strength and metal-free.
- 2) Novel groove design, easily strip and splice, simplified installation and maintenance.
- 3) Low smoke, zero halogen and flame retardant sheath, environment-friendly, good safety.

Standard: Comply with standard YD/T1997-2009

THE PROPERTIES OF SINGLE MODE FIBRE - ITU.G.657A2

Item	Description
atten.1310	$\leq 0.35\text{dB/km}$
atten.1383	$\leq 0.35\text{dB/km}$
atten.1550	$\leq 0.25\text{dB/km}$
atten.1625	$\leq 0.28\text{dB/km}$
Cable cut-off wavelength	$\leq 1260\text{ nm}$
Zero-dispersion wavelength	$1300 \sim 1324\text{ nm}$
Zero-dispersion slope	$\leq 0.092\text{ ps}/(\text{nm}^2.\text{km})$
Chromatic dispersion	
@ 1285 ~ 1330m	$\leq 3.5/(\text{nm}^2.\text{km})$
@ 1550 nm	$\leq 18.0\text{ ps}/(\text{nm}^2.\text{km})$
Mode field diameter @ 1310 nm	$8.4\sim 9.3\mu\text{m}$
Core/Clad concentricity error	$\leq 0.5\mu\text{m}$
Cladding diameter	$125\pm 0.7\mu\text{m}$
Cladding non-circularity	$\leq 0.7\%$
Primary Coating diameter	$245\pm 5\mu\text{m}$
Proof test level	$\geq 100\text{ kpsi}$
Attenuation with bending Loss	
7.5 mm radius, 1turn	$1550\text{nm} \leq 0.15\text{ dB/km}$
10 mm radius, 1turn	$1550\text{nm} \leq 0.08\text{dB/km}$
15 mm radius, 1turn	$1550\text{nm} \leq 0.03\text{ dB/km}$

CABLE DIMENSIONS AND CONSTRUCTIONS

Items		Description
Optical fibre	Fibre count	G.657A2
Tight buffer fibre	Material	LSZH
	Diameter	0.85±0.05mm
	Color	White
Strength member	Material	Aramid yarn
Sheath	Material	TPU
	Thickness	0.6±0.1mm
	Diameter	2.95±0.10mm
Weight		10.2kg/km

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Items	Test Method	Specification
Tensile Strength IEC 60794-1-E1	- Load: 500 N - Mandrel dia.: ≥ 360mm - Length: 100m - Time: 10 min.	- Loss change ≤ 0.1 dB @1550 nm
Crush Resistance IEC 60794-1-E3	- Load: 500 N - Length: 100 mm - Time: 5 min.	- Loss change ≤ 0.1 dB @1550 nm
Impact test IEC60794-1-E4 (Figure 7a)	- Radius of impacted surface: 25 mm - Impact load: 0.5 kg - Falling height: 150mm - Time: 10 min.	- Loss change ≤ 0.1 dB @1550 nm
Torsion IEC60794-1-E7	- Length: 2 m - Load: 50 N - Twist angle: ±180° - No. of cycle : 5	- Loss change ≤ 0.1 dB @1550 nm
Temperature Cycling IEC60794-1-F1	- Number of cycle: 1 - Time per step: 12hours	- Loss change ≤ 0.1 dB @1550 nm
Bending Radius	Operation	≥ 10D
	Installation	≥ 15D

Packing: Wooden Drum in Carton Box

Marking

For 657A1DROP-R1-LS:

OPTIFAB OPTICAL DROP FTTH FIBRE CABLE – INTERNAL – LSZH – 1X9/125 – G.657A1 – 2016 – BATCH xxxxm

For 657A1DROP-R2-LS:

OPTIFAB OPTICAL DROP FTTH FIBRE CABLE – INTERNAL – LSZH – 1X9/125 – G.657A1 – 2016 – BATCH xxxxm

Delivery Length

Standard delivery length is 1km/drum or 2km/drum

STRUCTURE AND TECHNICAL PARAMETERS

Cable Type	Strength Member	Fibre Count	Cable Size (mm)	Cable Weight (kg/km)
657A1DROP-R1-LS	Steel wire	1	2.0mm*3.0mm	10.5
657A1DROP-R2-LS		2	2.0mm*3.0mm	10.5

