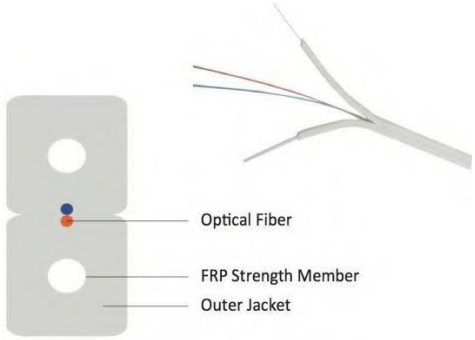
Fiber Optic, Drop Cable, Indoor, 1-4 fibers

Features and Benefits

- Fiber-count 1, 2 and 4 fibers
- Robust and lightweight
- LSZH jacket for internal use
- Lightweight construction
- Suitable for tight corners and bends
- Compact diameter
- Color-coded fibers for easy identification
- Compatible with field terminated connectors
- Standard cable length of 1km



Description

Avalon flat drop indoor cables are constructed with a flat profile jacket containing one, two or four fibers. The optical fibers contained in the center of the cable are protected by dielectric strength members made of fiberglass reinforced plastic (FRP) embedded in the jacket on opposite sides of the fibers. The FRP strength members add mechanical strength to the low-profile fiber optic cable and protect the 250 µm optical fibers against stress during installation and after installation.

Ideal for use in FTTx applications between the building's main telecommunications room and the apartment/office consolidation point and can also be used for FTTD applications.

The cable is suitable for termination with a quick assembly connector or can be fusion or mechanical spliced with standard pigtails.

Application

- FTTx applications
- CCTV

Standard

- ITU.T G.652D / G.657A/B
- IEC 60332-1-2, IEC 60754-1,2 & IEC 61034-2

Specifications

Fiber Type	Unit	OS2 G.652D		G.657 A1/A2			G.657 B1/B2		
Wavelength	nm	1310	1550	1310	1550	1625	1310	1550	1625
Attenuation	dB/km	≤0.40	≤0.30	≤0.36	≤0.21	≤0.22	≤0.35	≤0.21	≤0.22
Chromatic dispersion	ps/nm.km	≤3.5	≤18	≤3.5	≤18	≤21	≤3.5	≤18	≤21
Zero dispersion wavelength	nm	1300 ~ 1324		1300 ~ 1324			1300 ~ 1324		
Zero dispersion slope	ps/nm2.km	≤0.092		≤0.092			≤0.092		
PMD	ps/√km	≤0.2		≤0.2			≤0.2		
Cut-off wavelength	nm	≤1260		≤1260			≤1260		

Mode-field diameter		µm	9.2±0.4	10.4±0.5	9.2±0.5	10.5±0.8		9.2±0.4	10.5±0.8	
Macro Bend Loss	30mm radius x 100 turns	dB	-	≤ 0.05	-	-		-		
	15mm radius x 100 turns		-	-	-	≤ 0.25	≤ 0.03	-	≤ 0.03	≤ 0.03
	10mm radius x 100 turns		-	-	-	≤ 0.75/	≤ 0.1	-	≤ 0.1/	≤ 0.08
	7.5mm radius x 100 turns		-	-	-	-		-	≤ 0.5/	≤ 0.15
Core/Clad Concentricity Error		µm	≤ 0.6		≤ 0.5			≤ 0.6		
Cladding Diameter		µm	125 ± 1		125 ± 0.7			125 ± 1		
Cladding Non-circularity		%	≤ 1.0		≤ 1.0			≤ 1.0		
Coating Diameter		%	245 ± 15		245 ± 15			245 ± 15		
Proof Test Level		Kpsi	≥ 100		≥ 100			≥ 100		
Fiber curl		m	≥ 4		≥ 4			≥ 4		

Cable Construction

Primary Coating Color Layer	250 ± 15µm
Number of fibers per tube	FRP Ø 0.58 ± 0.05mm
Outer jacket	LSZH

Color of Buffer

1 core drop cable	01 – Blue	-	-	-
2 core drop cable	01 – Blue	02 – Orange	-	-
4 core drop cable	01 – Blue	02 – Orange	03 - Green	04 - Brown

Environmental Data

Temperature range	**Value**
Service	- 40˚ C to +60˚ C

Physical Specifications

No. of fibers	Fiber count	*Cable diameter LSZH	Nominal weight	Maximum tensile load		Crush resistance		Minimum bend radius			
				Short term	Long term	Short term	Long term	Loaded		Installed	
		mm	Kg/km	N	N	N/cm	N/cm	652D	657A	652D	657A
White	1,2 or 4	2.0x3.0 ± 0.2mm	8	80	40	1000	500	60	50	30	25

*Denotes nominal value for LSZH Jacketed Cable

Part Numbers

Part code	**Description**
ANFTTH-SM-YY-IN-LSZH	Single-Mode FTTH Flat Indoor Fiber Optic Drop Cable - G.657.A1 - LSZH Sheath

* YYY = 01,02 and 04 core ; Standard reel length 1000m