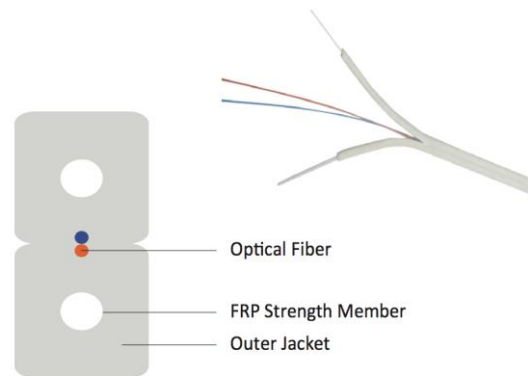


Fiber Optic, Drop cable, indoor, 1-4 fibers

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

Opterna 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 pigtailed.

Applications

- FTTx applications
- CCTV

Standards

- 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.657A1/A2			G.657B1/B2		
		1310	1550	1310	1550	1625	1310	1550	1625
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/nm ² .km	≤ 0.092		≤ 0.092			≤ 0.092		
PMD	ps/ $\sqrt{\text{km}}$	≤ 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 PE/LSZH mm	Nominal weight Kg/km	Maximum tensile load		Crush resistance		Minimum bend radius			
				Short term	Long term	Short term	Long term	Loaded		Installed	
				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 PE / LSZH Jacketed Cable

Part numbers

Description	Part code
Fiber Optic Singlemode Indoor Drop Cable, LSZH	FC-xxx-DRPA-NA-yyy-LZ

xxx = OS1, OS2, 7A1, 7A2, 7B2, 7B3
 yyy = 001,002 and 004 core

Standard reel length 1000m