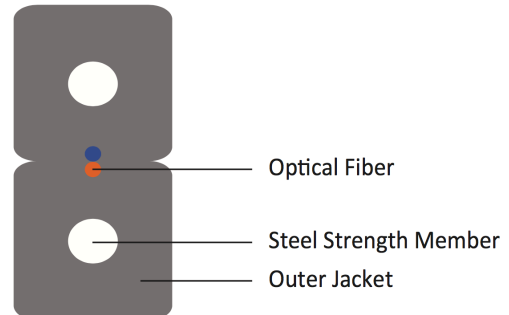


## Fiber Optic, Drop cable, flat, steel wire, 1-4 fibers

### Features and benefits

- Fiber-count 1, 2 and 4 fibers
- Robust and lightweight
- LSZH jacket for internal/outdoor use
- Lightweight construction
- Suitable for tight corners and bends
- Compact diameter
- Color-coded fibers for easy identification
- Compatible with field terminated connectors
- Designed for easy stripping with or without tools
- Standard cable length of 1km



### Description

Opterna flat drop indoor cables are constructed with a rectangle profile jacket containing one, two or four fibers. The optical fibers contained in the center of the cable are protected by steel wire strength members embedded in the jacket on opposite sides of the fibers. The steel wire strength members add mechanical strength to the low-profile fiber optic cable and protect the 250  $\mu$ m 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 they can also be used for FTTD applications.

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

Specifications

Fiber Type		Unit	OS2 G.652D		G.657A1/A2			G.657B1/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.k m	≤ 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
Dielectric strength member	Steel wire Ø 0.40 ± 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 N	Long term N	Short term N/cm	Long term N/cm	Loaded		Installed	
								652D	657A	652D	657A
White	1,2 or 4	2.0x3.0 ± 0.2mm	10	150	100	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-SW-YYY-LZ

XXX = OS1, OS2, 7A1, 7A2, 7B2, 7B3  
 YYY = 001,002 and 004 core

Standard reel length 1000m