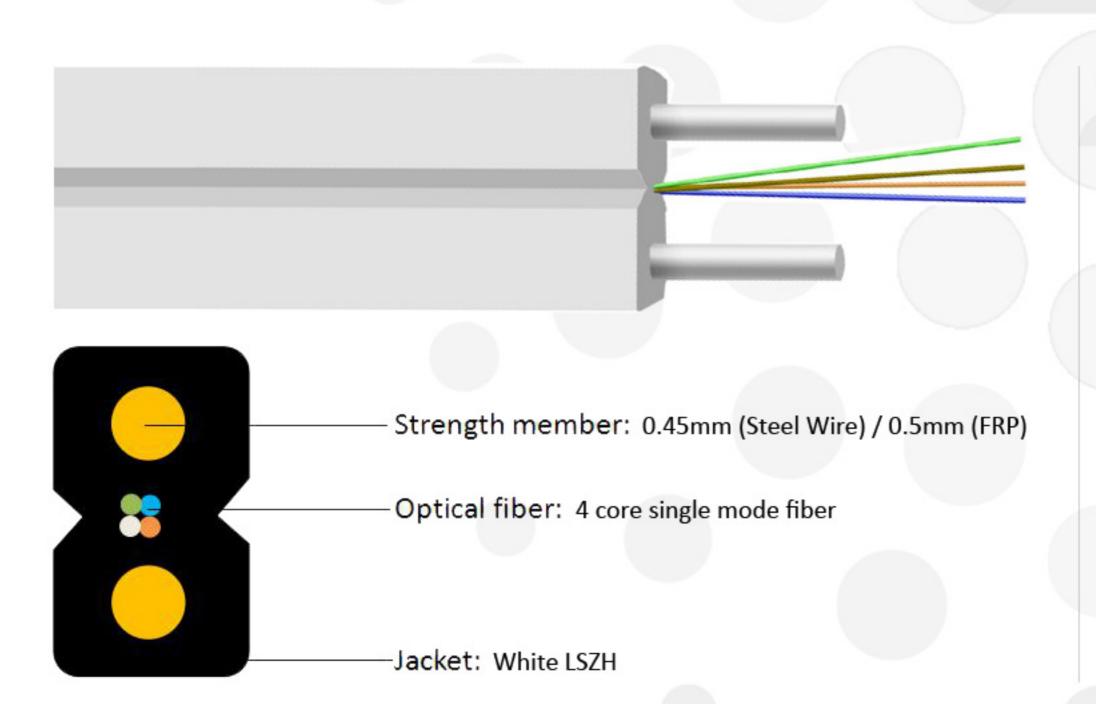




# FTTH FLAT DROP CABLE - INDOOR (WHITE)

# Structure Diagram & Description



D-CONNECT FTTH Flat Indoor drop cable possesses high tensile strength and flexibility in a compact cable size while providing excellent optical transmission and physical performance.

The optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastic (FRP) or Steel wire are placed at the two sides. Then the cable is completed with a black LSZH sheath. We offer flat indoor drop cables in 1 core, 2 core and 4 core fiber options.

### DIMENSION AND PROPERTIES

DIMENSION AND PROPERTIES	PHYSICAL
Fiber Count	1, 2, 4
Strength member diameter	0.45mm (Steel Wire) / 0.5mm (FRP)
Sheath thickness	Nominal 0.4mm
Cable OD	3.0±0.1*2.0±0.1mm
Cable weight	10 kg/km ± 15%
Operation temperature range	-10°C to +60°C
Installation temperature range	0°C to +60°C
Transport and storage temperature range	-20°C to +60°C





### **DIMENSION AND PROPERTIES**

		MECHANICAL
Max. tensile load	Short term: 200N, Long term: 100N	
Crush resistance	Installation: 2200N/10cm, working: 1000N/10cm	
Minimal dynamic bending radius	30mm	
Minimal static bending radius	15mm	

#### Reference:

D-CONNECT Drop cables are designed, manufactured and tested according to the following international standards:

- IEC 60793-1

Optical fiber Part 1: Generic specifications

- IEC 60793-2

Optical fiber Part 2: Product specifications

- IEC 60794-2

Optical fiber cables - Part 2 indoor cables - sectional specification

- ITU-T G.650

Definition and test methods for the relevant parameters of single-mode fibers

- ITU-T G.657

Characteristics of a bending-loss insensitive single-mode optical fiber

# DIMENSIONAL SPECIFICATIONS

Cladding Diameter	125 ± 1.0μm
Cladding non-circularity	≤ 1.0 %
Core/Clad concentricity error	≤ 0.5μm

# MECHANICAL SPECIFICATIONS

Proof stress	≥ 1.05 %
Fatigue Resistance Parameter (Nd)	≥ 22
Peak Coating Strip Force	1.3 ~ 8.9N



# **OPTICAL SPECIFICATIONS**

TELECOM · NETWORKING · STRUCTURED CABLING

	Specifications			
Description	Before cable	After cable		
Attenuation @1310 nm	≤ 0.34 dB/km	≤ 0.40 dB/km		
Attenuation @1550 nm	≤ 0.21 dB/km	≤ 0.30 dB/km		
Fiber irregularities point and whole length @1310 nm & 1550 nm	≤ 0.05dB			
Attenuation inhomogeneity @1310 nm & 1550 nm	≤ 0.05dB			
Dispersion coefficient	@1310nm ≤ 3.4ps/nm•km @1550nm ≤ 18ps/nm•km			
Zero Dispersion Wavelength	1300 ~ 1324 nm			
Zero Dispersion Slope	pe ≤ 0.092 ps/nm²•km			
Cable cut-off wavelength (λcc)	≤ 1260 nm			
Macro bending Loss				
(10 turns; φ30 mm) @1550 nm	≤ 0.25 dB			
(10 turns; φ30 mm) @1625 nm	≤ 1.0 dB			
( 1 turn; Φ20 mm) @1550 nm	≤ 0.75 dB ≤ 1.5 dB			
(1 turn; Φ20 mm) @1625 nm				
Mode Field Diameter @1310 nm	8.8 ± 0.4μm			



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## MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

			ITEM DESCRIPTION
Tensile performance	IEC 60794-1-2-E1	short-term	200N
		long-term	100N
Crush Resistance	IEC 60794-1-E3	short-term	2200N
		long-term	1000N
Cable Impact	IEC 60794-1-E4		
Repeat Bending	IEC 60794-1-E6	No obvious chan	ge after test
Torsion	IEC 60794-1-E7		
Cable Bend	IEC 60794-1-E11		
Temperature Range	IEC 60794-1-2-F1	-20° to +60°	
Bending Radius	Static	30mm	
	Dynamic	15mm	



### STRUCTURE AND TECHNICAL PARAMETERS

Туре	Strength Member	Fibre Count	Cable Size (mm)	Cable Weight	Tensile strength Long / Short Term (N)	Crush resistance Long/Short Term (N/100mm)	Bending Radius Static / Dynamic (mm)	Storage, Operating Temp. (°C)
DC-1-ID-W-7A1-S-N	Steel Wire	1	2.0mm*3.0mm	10.5 (kg/km)	100/200	1000/2200	15/30	-20 ~ + 75
DC-2-ID-W-7A1-S-N		2	2.0mm*3.0mm	10.5 (kg/km)	100/200	1000/2200	15/30	-20 ~ + 75
DC-1-ID-W-7A1-F-N	- FRP -	1	2.0mm*3.0mm	8.5 (kg/km)	100/200	1000/2200	15/30	-20 ~ + 75
DC-2-ID-W-7A1-F-N		2	2.0mm*3.0mm	8.5 (kg/km)	100/200	1000/2200	15/30	-20 ~ + 75

### Marking

DConnect OPTICAL DROP FTTH FIBRE CABLE - INTERNAL / EXTERNAL - LSZH - 1X9/125 - G.657A1 - 2016 - BATCH xxxxm DConnect OPTICAL DROP FTTH FIBRE CABLE - INTERNAL / EXTERNAL - LSZH - 1X9/125 - G.657A2 - 2016 - BATCH xxxxm

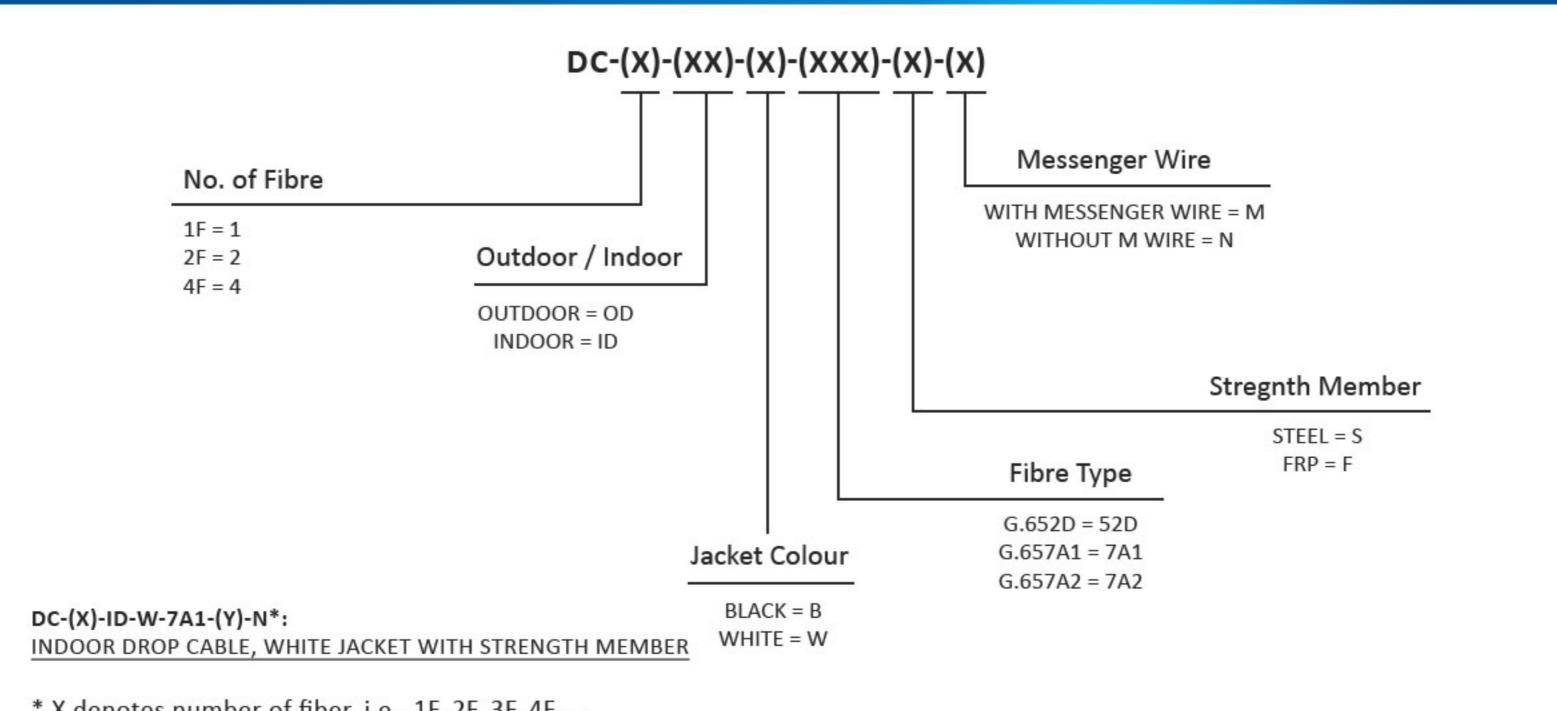
#### **Delivery Length**

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

Packing: Wooden Drum in Carton Box

### ORDERING INFORMATION

### **DROP CABLES**



\* X denotes number of fiber, i.e., 1F, 2F, 3F, 4F ...

\* Y denotes type of strength member

