

# KT optical fiber horizontal FTTH drop cable

## Features

### Low bending radius

Optical fibers as recommendation G.657 A and B that guarantee curvatures of 15 and 7.5 mm respectively.

### G.652 Compatibility

Guaranteed compatibility on the joints by fusion with G.652 fiber optic lines.

### Low diameter

Up to 2 4.2mm optical fiber cables to facilitate installation in horizontal connections.

### Easy manipulation

The cable construction and materials used are tailored to the needs of installation within buildings and homes .

### Safety

Use of flame retardants that slow the spread of flame, have low smoke and zero halogen. .

### Easy to connect

Compatible with mechanical connections and field-mount connectors.

**NOTE:** Different fiber types and configurations available upon request



## Description

Under FTTH (Fiber to the Home) an important number of standards and solutions are collected, with the aim of bringing new services to homes through optical fiber, without the need of the traditional solutions based on coaxial cable or telephone copper pairs.

One of the main challenges in FTTH network development is laying optical cable inside buildings specially in blocks of flats. These cables provide the distribution of the optical signal inside buildings, typically between the outlet box of each plant and wall socket at the subscriber's home.

The **KT FTTH drop cable** is built around a single loose tube containing optical fibers optimized against curvatures. Aramid yarns provide longitudinal tension reinforcement and flame retardant cover is ideal for indoor applications. All the plastic materials comply with IEC 332-1, EN 50267-2-2 and EN 50268-1 regarding no flame propagation, no halogen and low smoke emission.

This solution can be complemented with the rest of TELNET FTTH portfolio: drop cables, Splitters, loose tube cable for trunk and access network, termination boxes, splice closures, microcables and patchcords.

### Layer construction

- 1.- Central loose tube containing optical fibers .
- 2.- Aramid yarns as strength reinforcement elements.
- 3.- LSZH outer sheathing.

### Sheath marking

TELNET-RI	YEAR	Nº of fibers	Type of fiber	Sheathing type	Lenght
TELNET-RI	2009	1 F.O.	10.D - 7A B	INT	0001

### Fibers and modules color-code

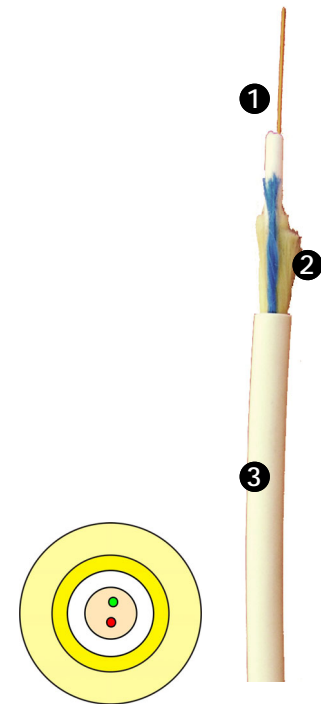
	1	2
<b>Optical fiber</b>	V	R
V: Green, R: Red		

### Size, weight and structure

F.O. per cable	Nominal Diameter (mm)	Nominal Weight (Kg/Km)
1	4,2	17
2	4,2	17

### Physical and mechanical properties

	Test	Acceptance criteria
Max. Tensile strength	IEC 794-1-E1	450 N
Crush resistance	IEC 794-1-E3	8 N/mm
Impact resistance	IEC 794-1-E4	2 J
Temperature cycling	IEC 794-1-F1	-5°C / +60°C
Bending radius	IEC 794-1-E11, proc. 1	10 x cable diameter
Flame propagation	IEC 332-1	
Halogen emission	UNE 50267-2-2	< 0,5 %; pH > 4,3
Fumes emission	UNE 50268-1	> 50 % transmitted light



### Contact Information

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