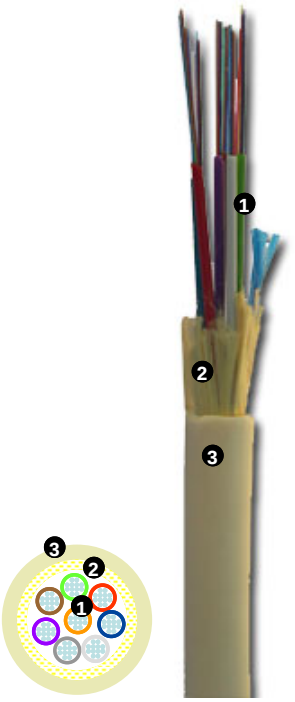
Riser Cable for FTTH



Features

Low bending radius fiber
Optical fiber according to both G.657 A and B, guarantees bending radius of 15 and 7,5 mm, respectively.

G.652 compatibility
Compatibility while fusion splicing with G.652 is guaranteed.

Small diameter
Up to 48 optical fibers in a 7,6 mm diameter cable that makes easier instalation inside buildings.

Easy to handle
Both cable construction and its materials have been designed to comply with requirements inside buildings and home.

Security
Flame retardant materials with zero halogen and low smoke emission are used.

Easy to splice
Compatible with mechanical splices and field mountable 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 tradicional 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. In these cases there is a reduced space available in the existing conduits..

Riser FTTH microcable contains reduced diameter micromodules. This construction brings high flexibility to the cable and makes it easier to install on conduit walls, roofs and wiring closet.

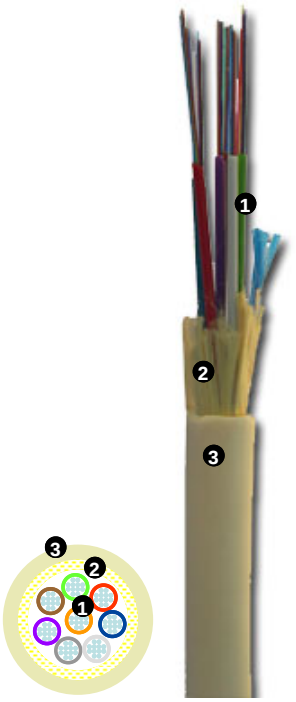
Furthermore, TELNET Redes Inteligentes techonology for Riser FTTH, is based on new materials designed for easy field handling, simpliying module branching in each floor. All the plastic materials comply with IEC 332-1, EN 50267-2-2 and EN 50268-1 regarding no flame propagation, no halogen and low smoke emission.

From 8 up to 48 optical fibers with semi-tight buffering secondary protection.

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.

Technical Specifications

Layer construction
1.- Micromodules containing optical fibers.
2.- Aramid yarns as strength reinforcement elements.
3.- LSZH outer sheathing.



Sheath marking

TELNET-RI	Year	N° of fibers	Type of fiber	Sheating type	Lenght
TELNET-RI	2008	48 F.O.	10.D - 7A B	INT-V	0001

Physical features

Bending radius (mm)	15	10	7,5
Number of tuns	10	1	1
Maximum attenuation at 1550 nm (dB)	0,03	0,1	0,5
Maximum attenuation at 1625 nm (dB)	0,1	0,2	1,0

Fibers and modules color-code

	1	2	3	4	5	6	7	8
Optical fiber	G	R	B	Y	Gr	Vi		
Micromodules	G	R	B	W	Gr	Vi	Br	O

B: Blue; G: Green, R: Red, Y: Yellow, Gr: Grey, Vi: Violet, W: White, Br: Brown, Nj: Orange.

Size, weight and structure

Number of fibers	N° of micro-modules	Fibers per micromodule	Nominal diameter (mm)	Nominal weight (Kg/Km)
8	8	1	7,6	45
16	8	2	7,6	45
24	6	4	7,6	45
32	8	4	7,6	47
48	8	6	7,6	49

Physical and mechanical properties

	Test	Acceptance criteria
Max. Tensile strength	IEC 794-1-E1	1000 N
Crush resistance	IEC 794-1-E3	15 N/mm
Impact resistance	IEC 794-1-E4	5 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	EN 50267-2-2	< 0,5 %; pH > 4,3
Fumes emission	EN 50268-1	> 50 % transmitted light

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