

Fiber optic cable - FVT monotube

Deployment and installation type: designed to be used for underground ducts, galleries, and drop inside buildings and homes, where optimal fire performance and moderate rodent protection are required. It outstands due to its reduced weight and diameter, which facilitates the installation.

Cable type: fully dielectric cable, built around central loose tube, over which fiberglass yarns are applied as tensile reinforcement element and moderate protection against rodents, and flame retardant, low smoke and halogen free thermoplastic sheath (LSZH).

Fully dielectric: Cables are completely dielectric, eliminating the possibility of interferences with existing power lines or coaxial cables.

Optical Fiber: different types based on customer requirements.

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

Construction detail

1. Central loose tube containing optical fibers
2. Fiber glass yarns as strength reinforcement element and moderate protection against rodents
3. Flame retardant, low smoke and halogen free thermoplastic sheath (LSZH)

Mechanical and physical features

	Test Method	Acceptance criteria
Max. Tensile load	IEC 60794-1-E1	1000 N
Crush resistance	IEC 60794-1-E3	10 N/mm
Impact resistance	IEC 60794-1-E4	3 J
Temperature cycle	IEC 60794-1-F1	-20°C / +60°C
Bending radius	IEC 60794-1-E11, proc. 1	20 x cable diameter
Water propagation	IEC 60794-1-F5	
Flame propagation	IEC 60332-2-2	
Halogen emission	IEC 60754-1	
Smoke density	IEC 61034-2	

Color coding of fibers (1)

	1	2	3	4	5	6	7	8	9	10	11	12
Optical fiber	A	Nj	V	M	Gr	B	R	N	Am	Vi	Rs	At
	13	14	15	16	17	18	19	20	21	22	23	24
Optical fiber	A*	Nj*	V*	M*	Gr*	B*	R*	Nt	Am*	Vi*	Rs*	At*

A: Blue, Nj: Orange, V: Green, M: Brown, Gr: Grey, B: White, R: Red, N: Black, Am: Yellow, Vi: Violet, Rs: Pink, At: Turquoise

Optical fibers with "*" have a black ringmark

Dimension, structure and weight (1)

OF per cable	Number of tubes/fillers	Number of fibers per tube	Nominal diameter (mm)	Nominal weight (Kg/Km)
Up to 24	1	0	7,0	55

Outer jacket marking (1)

TELNET-RI	Year	Num fibers	Fiber type	Cable type	Production order	Length
TELNET-RI	XXXX	XXX OF	XXX	FVT	OF-XXXXXXXX-E	XXXX

(1) TELNET, as manufacturer, designs and manufactures cables according to customer requirements, offering additional configurations to the ones shown in datasheet. For further information, please contact TELNET.

