

Fiber optic cable - TFVEST

Deployment and installation type: designed to be used both in underground ducts, galleries or buried, as well as inside buildings where optimal fire performance is required, providing as well rodent protection.

Cable type: armed cable with corrugated steel tape, fiberglass yarns as tensile reinforcement element, and two flame retardant, low smoke and halogen free thermoplastic sheaths (LSZH).

Optical Fiber: different types based on customer requirements.

Dry core: the use of waterblocking materials avoids water propagation through the cable.

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

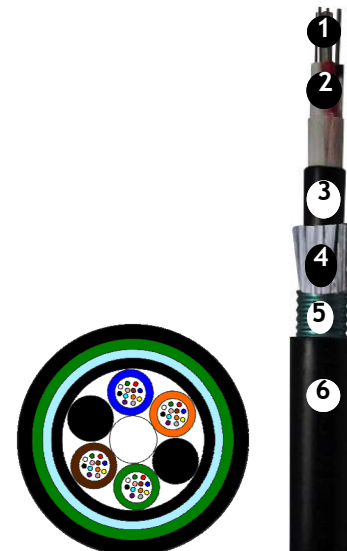
1. Dielectric Fiberglass Reinforced Plastic (FRP) as central strength member
2. PBT loose tubes containing optical fibers, and fillers (if required), stranded in SZ around the FRP and coated with water-blocking material
3. Inner Flame retardant, low smoke and halogen free thermoplastic sheath (LSZH)
4. Fiber glass yarns as tensile reinforcement element
5. Corrugated steel tape (CST) as maximum protection against rodents
6. External 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	3000 N
Crush resistance	IEC 60794-1-E3	30 N/mm
Impact resistance	IEC 60794-1-E4	5 J
Temperature cycle	IEC 60794-1-F1	-30°C / +70°C
Bending radius	IEC 60794-1-E11, proc. 1	15 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	

Outer jacket marking (1)

TELNET-RI	Year	Num fibers	Fiber type	Cable type	Production order	Length
TELNET-RI	XXXX	XXX F.O.	XXX	TFVEST	OF-XXXXXXXX-E	XXXX



Color coding of fibers (*)

	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

Color coding of tubes (*)

Number of fibers	1	2	3	4	5	6	7	8	9	10	11	12
12	A	N	N	N	N	N						
24	A	N	N	Nj	N	N						
36	A	N	Nj	N	V	N						
48	A	Nj	N	V	M	N						
60	A	Nj	V	M	Gr	N						
72	A	Nj	V	M	Gr	B						
96	A	Nj	V	M	Gr	B	R	N*				
144	A	Nj	V	M	Gr	B	R	N*	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

The tubes marked as "N" are fillers (without optical fiber)

The tubes marked as "N*" are tubes with optical fibers

Dimension, structure and weight (*)

OF per cable	Number of tubes/fillers		Number of fibers per tube	Nominal diameter (mm)	Nominal weight (Kg/Km)
12	1	5	12	15,5	305
24	2	4	12	15,5	305
36	3	3	12	15,5	305
48	4	2	12	15,5	305
60	5	1	12	15,5	305
72	6	0	12	15,5	305
96	8	0	12	17,0	360
144	12	0	12	20,0	480

Contact Information

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(*) 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.