

Fiber optic cable - FVP

Deployment and installation type: designed for underground ducts, galleries or buried, where moderate rodent protection is required.

Cable type: fully dielectric cable, with fiberglass yarns as tensile reinforcement element, and polyethylene sheath, which brings an optimal protection against environmental factors.

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.

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

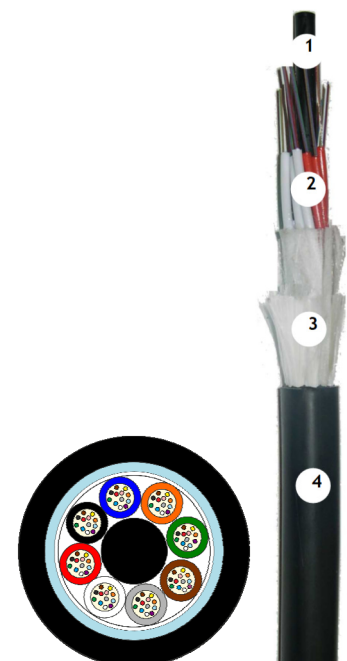
1. Dielectric Fiberglass Reinforced Plastic (FRP) as central strength member
2. PBT loose tubes containing optical fibers, and fillers (if required), stranded in SZ around the FRP and coated with water-blocking material
3. Fiber glass yarns as tensile reinforcement element and moderate protection against rodents
4. Polyethylene sheathing

Mechanical and physical features

| | Test Method | Acceptance criteria |
|-------------------|--------------------------|---------------------|
| Max. Tensile load | IEC 60794-1-E1 | 3000 N |
| Crush resistance | IEC 60794-1-E3 | 20 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 | |

Outer jacket marking (*)

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



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 |

Color coding of tubes (1)

| 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 (1)

| OF per cable | Number of tubes/fillers | | Number of fibers per tube | Nominal diameter (mm) | Nominal weight (Kg/Km) |
|--------------|-------------------------|---|---------------------------|-----------------------|------------------------|
| 12 | 1 | 5 | 12 | 11,4 | 110 |
| 24 | 2 | 4 | 12 | 11,4 | 110 |
| 36 | 3 | 3 | 12 | 11,4 | 110 |
| 48 | 4 | 2 | 12 | 11,4 | 110 |
| 60 | 5 | 1 | 12 | 11,4 | 110 |
| 72 | 6 | 0 | 12 | 11,4 | 110 |
| 96 | 8 | 0 | 12 | 12,6 | 135 |
| 144 | 12 | 0 | 12 | 15,4 | 205 |

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(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.