

OUTDOOR - SP Sheath

MULTITUBE FIBRE-OPTIC CABLES

DESCRIPTION AND APPLICATION

"Loose Tube" type fibre-optic cables with a polyethylene sheath and armoured with a steel tape for mechanical and rodent protection. This cable can be installed in underground ducts or directly buried. For use in medium or long distance networks.

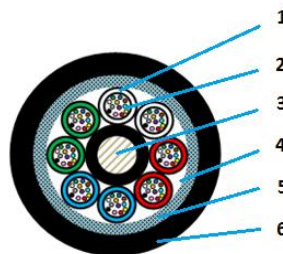
CONSTRUCTION

1. Jelly-filled PBT loose tubes.
2. Optical fibres.
3. Dielectric fibreglass-reinforced central element.
4. Water-blocking yarns and/or tapes.
5. Corrugated copolymer-coated steel tape longitudinally applied with overlap.
6. Polyethylene sheath.

Markings:

CABLESCOM / Year / Number of fibres / Type of fibre / Type of sheath / Length markings

Other markings available upon request



PRODUCT INFORMATION

Code	Num. Fibres	Fibres per tube	Active Tubes	Passive Tubes	Nominal weight (kg/km)	Nominal OD (mm)	Max. Inst. Tensile strength (N)
EE2772V00001200N_Ir	12	12	1	5	135	12.5	1.500
EE2772V00004800N_Ir	48	12	4	5	135	12.5	1.500

Mechanical characteristics	Standard	Test conditions
Installation Maximum Tensile Strength ($\epsilon_f < 0.33\%$, $\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. E1	See table
Impact resistance ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. E4	10 J, 300 mm
Curvature ($\Delta\alpha < 0.1$ dB)	UNE-EN 60794-1-2, Met. 11	D=15 x ϕ cable, 5 cycles
Operating temperature ($\Delta\alpha < 0.1$ dB)	UNE-EN 60794-1-2, Met. F1	-25°C / 70°C
Water penetration	UNE-EN 60794-1-2, Met. F5C	LP _{water} $\leq$ 3 m (24 hours)
Torsion ($\Delta\alpha < 0.1$ dB)	UNE-EN 60794-1-2 Met. E7	20 cycles, 25 N, $\pm 180^\circ$
Crush resistance ($\Delta\alpha < 0.1$ dB)	UNE-EN 60794-1-2 Met. E3	20 daN/cm

FIBRE OPTIC CHARACTERISTICS

Attenuation:

Average/Maximum at 1310 nm: 0.36/0.4 dB/km

Average/Maximum at 1550 nm: 0.22/0.25 dB/km

PMD ≤ 0.2 ps/km^{1/2}

PMDq link ≤ 0.10 ps/km^{1/2}

Cut-off wavelength (λ_{cc}) ≤ 1260 nm

FIBRE AND TUBES COLOUR CODE

Fibre Colour Abbrev.	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Blue	Green	Yellow	Violet	White	Orange	Grey	Brown	Black	Turquoise	Rose
	Gr	Rd	Bl	Ye	Gy	Vi	Br	Or	Wh	Bk	Rs	Tq

Tube position in the layer	Colour
First	Red
Second	Blue
Rest	White

All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and must not be considered contractual.

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