

ADSS CABLE - KE Sheath

LIGHT ADSS FIBRE-OPTIC CABLES

DESCRIPTION AND APPLICATION

Fibre-optic ADSS cable with dielectric reinforcement elements and high density polyethylene sheath. This cable is designed for aerial self-supported installations in poles along with overhead, telecommunication or high voltage transmission lines. It contains 6, 8 or 11 loose tubes of 12, 24 or 36 fibres each.

These cables are used for medium or long distance telecommunications networks designed with single mode fibre type ITU-T G 652D, for cables from 12 to 192 fibres. Cables of 288 and 396 fibres, with 36 fibres per tube are designed with single mode fibre ITU-T G657A1 200µm.

CONSTRUCTION

1. Central element: Fibre-glass reinforced plastic rod.
2. Loose Tubes: PBT loose tubes filled with thixotropic compound. Optional fillers depending on the cable structure. Colour coding according to tables 1 and 2.
3. Core formation: Tubes are stranded in SZ.
4. Core wrapping: Water-blocking tape and/or yarns to avoid water propagation.
5. Aramid yarns for traction reinforcement. (≥ 75000 dtex)
6. Outer sheath: Grey (RAL 7001) HDPE, UV resistant outer jacket.
6. Sheath marking:
Manufacturer – CAVO OTTICO - Number of fibres (YY) FO - OPEN FIBER – (Month-Year) – Identification number of the fibre - Length markers

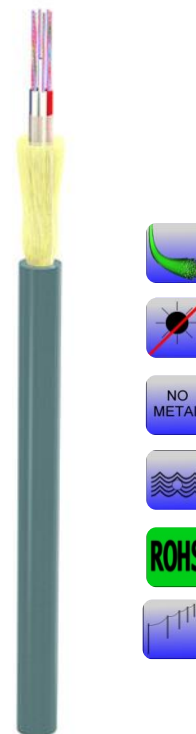
LOOSE TUBE AND OPTICAL FIBRE COLOUR CODE

Fibre/Tube Colour	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Green	Yellow	Brown	Blue	Violet	Grey	Orange	Rose	White	Black	Turquoise

*Fibers from 13 to 24 will be marked with one black ring each 50 mm.

*Fibers from 25 to 36 will be marked with two black rings each 50 mm.

* In case of the black fiber, this could be natural fiber with one or two black rings.



PRODUCT INFORMATION

CABLE FIBRES		24	48	96	144	192	288	396
Nominal OD (mm)		10.5	10.5	12.5	12.5	14.0	14.0	16.0
Nominal weight (kg/km)		84	84	125	125	150	160	211
Tubes Num.		2	4	4	6	8	8	11
Passive Elements Num.		4	2	2	0	0	0	0
Fibres Number per Tube		12	12	24	24	24	36	36
MAX. TENSILE STRENGTH (N) UNE-EN 60794-1-2, Met. E1 $\Delta\alpha \leq 0,1$ dB/km after test	MOT ($\Delta\epsilon_f \leq 0,05\%$)	3000						
	MAT ($\Delta\epsilon_f \leq 0,25\%$)	6000						
IMPACT RESISTANCE UNE-EN 60794-1-2, Met. E4		3 J, 300 mm ; $\Delta\alpha$ reversible ($\Delta\alpha \leq 0,1$ dB/km after test)						
CRUSH RESISTANCE (N/cm) UNE-EN 60794-1-2, Met. E3		1500 N/10 cm ; $\Delta\alpha$ reversible ($\Delta\alpha \leq 0,1$ dB/km after test)						
REPEATED BENDING UNE-EN 60794-1-2, Met. E6		25 Cycles: 20 x \varnothing cable, $\Delta\alpha$ reversible ($\Delta\alpha \leq 0,1$ dB/km after test)						
TORSION UNE-EN 60794-1-2, Met. E7		2m cable ; 100N ; 5 cycles ; $\pm 180^\circ$; $\Delta\alpha$ reversible ($\Delta\alpha \leq 0,1$ dB/km after test)						
BENDING UNE-EN 60794-1-2, Met. 11		$\varnothing=20x\varnothing$; 4 turns; 3 cycles, $\Delta\alpha$ reversible ($\Delta\alpha \leq 0,1$ dB/km after test)						
TEMPERATURE CYCLING UNE-EN 60794-1-2, Met. F1		$-30^\circ\text{C} / 60^\circ\text{C}$; $\Delta\alpha < 0.1$ dB/km						
WATER PENETRATION UNE-EN 60794-1-2, Met. F5B		$LP_{\text{water}} \leq 3$ m (24 hours); No leakage						
UV RESISTANCE ISO 4892-2 2013		720 hours, no change in physical-mechanical proprieties						

Optical fibre characteristics: See Annexes – Optical fibre characteristics.

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Certified Company ISO 9001 – ISO 14001

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.

TITLE
HP_EE2M12N/EE2M32N

EDITION
1

APPROVED BY
O. Salomón

DATE
2017-10-03