

μCABLE OUTDOOR - E Sheath

MICRO FIBRE-OPTIC CABLES

DESCRIPTION AND APPLICATION

This low diameter cable is used for Access, Distribution, City Network and FTTx applications. It is designed to be rapidly installed by blowing. High blowing distance due to the excellent friction properties of the outer sheath. ≈ 1500 m depending on way route.

It contains 8 loose tubes of 36 fibres each.

These cables are used for medium or long distance telecommunications networks and can be designed with single mode type ITU-T G 657A1 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. Outer sheath: Grey 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	288	396
Nominal OD (mm)	8.2	10.8
Nominal weight (kg/km)	70	105
Tubes Num.	8	11
Passive Elements Num.	0	0
Fibres Number per Tube	36	36
MAX. TENSILE STRENGTH (N) UNE-EN 60794-1-2, Met. E1 $\Delta ef \leq 0,5\%$, $\Delta \alpha \leq 0,1$ dB/km after test	1500	
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	100 ; $\Delta \alpha$ 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	R=20X \varnothing ; 5 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°C / 60°C; $\Delta \alpha < 0.1$ dB/km	
WATER PENETRATION UNE-EN 60794-1-2, Met. F5B	LP _{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.

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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