

OUTDOOR - PE Sheath

MULTITUBE FIBRE-OPTIC DUCT CABLES

DESCRIPTION AND APPLICATION

Loose tube optical fibre cables with HDPE sheath. For installation in ducts by pulling or blowing with maximum tensile strengths of 150 Kp. These cables are designed for medium or long distance telecommunications networks with single mode fibre optic type ITU-T G 652D (EN 60793-2 - Class B 50 B 1.3). They can also be made with other types of fibres on request.

CONSTRUCTION

1. Single mode optical fibres.
2. PBT loose tubes filled with thixotropic compound. Optional fillers depending on the cable structure. Colour coding according to tables 1 and 2.
3. Dielectric fibreglass central reinforced element.
4. Water-blocking tape to avoid moisture penetration.
5. High density polyethylene outer jacket with a nominal thickness of 1.5 mm. UV resistant.
6. Sheath marking: The cable sheath will be marked at regular intervals with the following information:
Number of fibres and type / Sheath type / Manufacturer / Year / Length markers
Other sheath marks available upon request



LOOSE TUBE COMPOSITION AND OPTICAL FIBRE COLOUR CODE

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

Note: Other colour code available upon request

PRODUCT INFORMATION

CABLE FIBRES		24	48
CODE		EE2331A0000240WN	EE2331A0000480WN
FO per Tube		12	12
Nominal OD (mm)		10.6	10.6
Nominal weight (kg/km)		88	88
Tubes Num. 1 st layer		2	4
Passive Elements Num. 1 st layer		4	2
MAX. INSTALLATION LOAD (N)	UNE-EN 60794-1-2, Met. E1	1500 N; ($\Delta\epsilon \leq 0.33\%$); $\Delta\alpha$ reversible	
CRUSH RESISTANCE (N)	UNE-EN 60794-1-2, Met. E3	2000 N; $\Delta\alpha \leq 0.1$ dB	
IMPACT RESISTANCE	UNE-EN 60794-1-2, Met. E4	10 J, 300 mm; $\Delta\alpha$ reversible	
BENDING	UNE-EN 60794-1-2, Met. 11B	12 x \emptyset cable; 5 cycles; $\Delta\alpha \leq 0.1$ dB	
WATER PENETRATION	UNE-EN 60794-1-2, Met. F5C	LP _{water} ≤ 3 m (24 hours); No leakage	
TEMPERATURE CYCLING	UNE-EN 60794-1-2, Met. F1	-25°C/70°C; $\Delta\alpha \leq 0.1$ dB/km	

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.