

OUTDOOR - KP Sheath

MULTITUBE FIBRE-OPTIC CABLES

DESCRIPTION AND APPLICATION

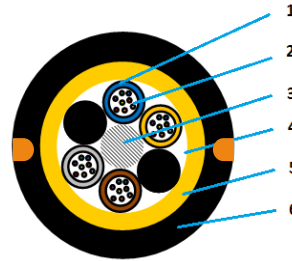
"Loose Tube" type fibre-optic cables with aramid yarns and high density polyethylene sheath. This cable is suitable for outdoor installations and can also be installed in underground ducts (by blowing or pulling). For use in medium or long-distance networks.

CONSTRUCTION

1. Jelly-filled PBT loose tubes.
2. Optical fibres.
3. Dielectric fibreglass-reinforced central element.
4. Water-blocking yarns and/or tapes.
5. Aramid yarns.
6. HDPE Polyethylene outer sheath. UV Resistant.

Markings:

CABLESCOM / Year / Cable Type designation/ Number of fibres / Type of fibre / CDC/
Tensile performance N / Fabrication Number / Length markings



PRODUCT INFORMATION

Code	Num. Fibres	Fibres per tube	Active Tubes	Passive Tubes	Nominal weight (kg/km)	Nominal OD (mm)	Max. Inst. Tensile strength (N)	Max. Operation Tensile strength (N)
EE5602O00002400N	24	12	2	4	86	10.8	3600	2500
EE5602O00004800N	48	12	4	2	88	10.8	3600	2500
EE5612O00019200N	192	24	8	0	167	17.0	6000	3000
EE5602O00028800N	288	24	12	0	242	18.7	6000	3000
EE5602O00043200N	432	24	18	0	251	19.0	6000	3000

Mechanical characteristics	Standard	Test conditions
Installation Maximum Tensile Strength ($\epsilon_f < 0.5\%$)	UNE-EN 60794-1-2, Met. E1	See table above
Operation Maximum Tensile Strength ($\epsilon_f < 0.2\%$)	UNE-EN 60794-1-2, Met. E1	See table above
Impact resistance ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. E4	5 J, r= 300 mm, 3 impacts
Curvature ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. 11	R=20 x Ø cable
Operating temperature ($\Delta\alpha < 0.05$ dB)	UNE-EN 60794-1-2, Met. F1	-20°C / 60°C
Water penetration	UNE-EN 60794-1-2, Met.F5C	LP _{water} ≤ 3 m (24 hours)
Crush	UNE-EN 60794-1-2, Met. E5	3000 N, 10 cm

OPTICAL FIBRE COLOUR CODE

Fibre Colour Abbrev.	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Green	Yellow	Blue	White	Violet	Orange	Black	Grey	Brown	Pink	Turquoise
	Rd	Gr	Ye	Bl	Wh	Vi	Or	Bk	Gr	Br	Rs	Tq
Fibre Colour Abbrev.	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Green	Yellow	Blue	White	Violet	Orange	Transparent	Grey	Brown	Pink	Turquoise
	Rd*	Gr*	Ye*	Bl*	Wh*	Vi*	Or*	Ts*	Gr*	Br*	Rs*	Tq*

Fibres from 13 to 24 will be ring-marked in black with 50 mm span between marks.

Tube colour code: Red – Green – White - Black (Passive).

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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