

# INDOOR/OUTDOOR DROP CABLE - KT Sheath

## CENTRAL TUBE DROP FIBRE-OPTIC CABLES



### DESCRIPTION AND APPLICATION

Indoor/Outdoor drop cable with up to 24 fibres, totally dielectric, constituted by a single loose tube. Flame-retardant and halogen free sheath, KT type. Can be installed on overhead lines, stapled on façade walls or pulled inside from the point of junction with the outside plant cables to the building or subscriber RIT.

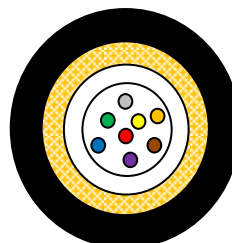
### CONSTRUCTION

1. A single loose tube with up to 24 optical fibres in a central PBT tube filled with thixotropic compound. Colour code according to table 1.
2. Optical fibres.
3. Aramid yarns as traction-resistant reinforcement.
4. Black, UV resistant and fire retardant thermoplastic, low smoke emission and halogen free.

Markings:

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

Other sheath marks available upon request



### OPTICAL FIBRE CHARACTERISTICS

The parameters of the optical fibres are compliant with the ITU-T G.652 D recommendation. See our fibre product sheet for the characteristics of the fibre

**Optical transmission characteristics of cabled fibre:**

Attenuation coefficient:

Average / maximum at 1310 nm: 0.36 / 0.37 dB/km

Average / maximum at 1550 nm: 0.22 / 0.24 dB/km

PMD individual  $\leq 0.05$  ps/km<sup>1/2</sup>

### OPTICAL FIBRE COLOUR CODE

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

### PRODUCT INFORMATION

| CODE             | Fibre Num. | Nominal OD (mm) | Nominal Weight (kg/km) |
|------------------|------------|-----------------|------------------------|
| EE6312L0000WW0WN | 2-24       | 7.1             | 48.5                   |

| Mechanical characteristics                                                       | Standard                   | Test conditions                                       |
|----------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------|
| Tensile strength ( $\Delta\epsilon_f \leq 0.33\%$ ; $\Delta\alpha \leq 0.05$ dB) | UNE-EN 60794-1-2, Met. E1A | 1250 N                                                |
| Crush resistance ( $\Delta\alpha \leq 0.05$ dB)                                  | UNE-EN 60794-1-2, Met. E3  | 1200 N; 10 cm                                         |
| Curvature ( $\Delta\alpha < 0.05$ dB)                                            | UNE-EN 60794-1-2, Met. E11 | R = 15 x cable OD; 5 turns; 3 cycles                  |
| Torsion ( $\Delta\alpha \leq 0.05$ dB)                                           | UNE-EN 60794-1-2, Met. E7  | 50 N; $\pm 1$ turn/cycle; 10 cycles                   |
| Impact resistance ( $\Delta\alpha \leq 0.05$ dB)                                 | UNE-EN 60794-1-2, Met. E4  | 5 J; r = 10 mm                                        |
| Repeated bending ( $\Delta\alpha \leq 0.05$ dB)                                  | UNE-EN 60794-1-2, Met. E6  | 100 N; r = 15 x cable OD; r $\geq 250$ mm; 100 cycles |
| Temperature cycling (operation, $\Delta\alpha \leq 0.05$ dB)                     | UNE-EN 60794-1-2, Met. F1  | -5°C / +60°C                                          |
| Flame propagation                                                                | UNE-EN 60332-1             |                                                       |
| Smoke density                                                                    | UNE-EN 61034-2             | Transmittance > 60 %                                  |
| CPR Class                                                                        |                            | Dca s2 d2 a1                                          |

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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.

