

OUTDOOR CENTRALTUBE CABLE

SINGLEMODE OPTICAL FIBER CABLE



DESCRIPTION AND APPLICATION

Dielectric optical fiber cables with one single central loose tube and a cover made of fiberglass reinforcements and polyethylene.

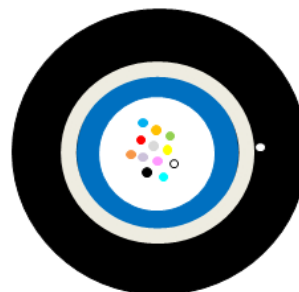
These cables have waterblocking elements to avoid water penetration and anti-rodent protection.

This cable is designed for outdoor installations, mainly in ducts or facades, by blowing or pulling.

CONSTRUCTION

- Optical fibers following ITU-T G.652.D recommendation.
- Single loose tube with tixotropic jelly to avoid water penetration inside the tube.
- Water blocking elements to avoid water penetration
- Fiberglass elements for mechanical and anti-rodent protection.
- Black UV resistant polyethylene sheath.
- Markings:

CABLESCOM Year Nr. of fibers G.652.D FVP Length markings
[Others upon request]



PRODUCT INFORMATION

Code	Nr. of fibers	Nominal weight [kg]	Nominal cable Ø [mm]	Installation max. tensile strength [N]	Operation max. tensile strength [N]
EE2203E0000040WN	4	35	6.1	1000	500
EE2203E0000080WN	8	35	6.1	1000	500
EE2203E0000120WN	12	35	6.1	1000	500
EE2203E0000160WN	16	40	6.8	1000	500
EE2203E0000240WN	24	42	6.8	1000	500

Mechanical characteristics	Standard	Test conditions
Max. tensile strength (installation: $\Delta\epsilon_f < 0.40\%$, $\Delta\alpha$ reversible) (operation: $\Delta\epsilon_f < 0.20\%$, $\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. E1	See above table
Impact resistance ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. E4	5 J, r= 300 mm, 3 impacts
Crush resistance ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. E3	700 N, 100 mm
Curvature test ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. 11	r=15 x Ø cable, 4 turns, 3 cycles
Bending radius ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. 6	r=20 x Ø cable, 25 cycles, 75N
Climatic cycle ($\Delta\alpha$ reversible)	UNE-EN 60794-1-2, Met. F1	-20°C / 60°C
Water penetration test	UNE-EN 60794-1-2, Met. F5C	LP _{water} ≤ 3 m (8 hours)

Fiber colour code (*:1 black ring):

Fibers 1-12: Green – Red – Blue – Yellow – Grey – Violet – Brown – Orange – White – Black – Pink – Turquoise

Fibers 13-24: Green* – Red* – Blue* – Yellow* – Grey* – Violet* – Brown* – Orange* – White* – Black* – Pink* – Turquoise*

Tube colour code: White (others upon request).

Optical transmission characteristics of cabled fiber :

Parameters of optical fibers used in these cables meet the ITU-T recommendation G.652D

Attenuation coefficient:

Average / maximum at 1310 nm: 0,36 / 0,37 dB/km

Average / Maximum at 1550 nm: 0,22 / 0,26 dB/km

PMD ≤ 0,20 ps/km^{1/2}

Cut-off wavelength (λ_{cc}) ≤ 1260nm

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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EDITION
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APPROVED BY
JJP

DATE
13/6/19