

INDOOR CENTRALTUBE CABLE

SINGLEMODE OPTICAL FIBER CABLE

DESCRIPTION AND APPLICATION

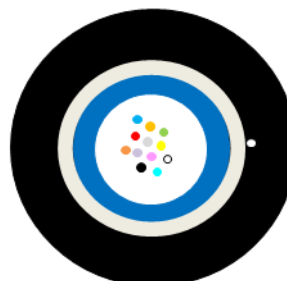
Dielectric optical fiber cables with one single central loose tube and a cover made of fiberglass reinforcements and LSZH material.

These cables have fiberglass elements for mechanical and anti-rodent protection.

The suggested installation is indoor. CPR classification: Cca – s1a, d0, a1

CONSTRUCTION

- Optical fibers following ITU-T G.652.D recommendation.
- Central loose tube with thixotropic jelly to avoid water penetration inside the tube.
- Fiberglass elements for mechanical and anti-rodent protection.
- Black UV resistant LSZH material sheath.
- Markings (others upon request):
CABLESCOM Year Nr. of fibers G.652.D FVT CPR OF Length markings
OF = Manufacturing order
CPR = Cca – s1a, d0, a1.



PRODUCT INFORMATION

Code	Nr. of fibers	Nominal weight [kg]	Nominal cable Ø [mm]	Installation max. tensile strength [N]	Operation max. tensile strength [N]
EE22C3H0000020WN	2	60	7.1	1500	600
EE22C3H0000040WN	4	60	7.1	1500	600
EE22C3H0000080WN	8	60	7.1	1500	600
EE22C3H0000120WN	12	60	7.1	1500	600
EE22C3H0000160WN	16	60	7.1	1500	600
EE22C3H0000240WN	24	60	7.1	1500	600

Mechanical characteristics	Standard	Test conditions
Max. tensile strength (installation: $\Delta\epsilon_f < 0.50\%$, $\Delta\alpha$ 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	1500 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

Fiber color code (*: with 1 black ring):

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

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

Tube color code: Blue (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: 0,24 / 0,26 dB/km

PMD $\leq 0,20$ ps/km^{1/2}

Cut-off wavelength (λ_{co}) ≤ 1260 nm

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

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