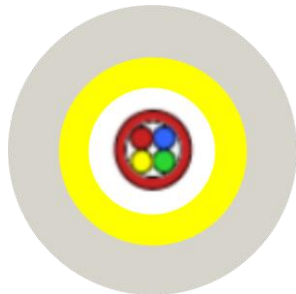


FTTH Indoor Drop cable with 2,4,8,12 or 24 fibres

Cable Design



-4F version illustrated not to scale -

- **Micromodule:** 2, 4, 8,12 or 24 fibres G.657.A2 protected with an easy-strippable tight buffer
- **Peripheral Strength Member:** aramid yarns.
- **Outer Sheath:** White LSZH-FR jacket (RAL9002).
- **Outer Diameter:** 2.8^{+0.2} mm for cables with 2f, 4f and 8f
3.0^{+0.2} mm for cables with 12f and 24f

Reference specification: **CEI EN 60794-2-20**

This dielectric optical cable is designed for indoor drop installation technique.

Main characteristics

Test	Standard	Value	Acceptance Criteria*
Installation tension	CEI EN 60794-1-21-E1B	500 N, 5 min.	$\Delta l/l$ fibre $\leq 0.6\%$, $\Delta\alpha$ reversible
Crush	CEI EN 60794-1-21-E3	500 N/100mm, 1 min 300 N/100mm, 5 min	$\Delta\alpha \leq 0.15$ dB after test $\Delta\alpha \leq 0.15$ dB during test cable integrity
Impact	CEI EN 60794-1-21-E4	1 Nm, 3 impacts, r=12.5mm	No fibre breakage
Cable bend	CEI EN 60794-1-21-E11A	R = 10 x cable \emptyset , 6 turns, 10 cycles	No fibre breakage
Repeated bending	CEI EN 60794-1-21-E6	R = 20 x cable \emptyset , mass 4 kg, 25 cycles	cable integrity
Cable bend under tension	CEI EN 60794-1-21-E18	R = 20 x cable \emptyset , load= installation tension	$\Delta\alpha \leq 0.15$ dB after test, cable integrity
Cable bend @ low temperature (-10°C)	CEI EN 60794-1-21-E11A	R = 10 x cable \emptyset , 6 turns, 2 cycles	No fibre breakage
Cable flexing	CEI EN 60794-1-21-E8	Pulley R = 10 x cable \emptyset , weight=2 kg, 100 cycles	No fibre breakage
Torsion	CEI EN 60794-1-21-E7	2 m, 20 N, +- 180°, 10 cycles	No fibre breakage
Cable Kink	CEI EN 60794-1-21-E10	Min. loop diameter: 20 x cable \emptyset	No kink
Temperature range	CEI EN 60794-1-22-F1	-10 -> +60°C	$\Delta\alpha \leq 0.10$ dB/km

* values for single-mode fibres, all optical measurements performed at 1550 nm

Fire Performance

Test	Standard	Value	Acceptance Criteria
Single vertical cable	CEI EN 60332-1-2	Un-burnt cable length	> 50 mm
Euroclass	CEI EN 50575 + A1	-	B2ca-s1a, d1, a1

Optical Characteristics

See the attached cabled optical fiber data sheet BBXS for cables up to 12f and BBXS 200 microns for cables with 24f

Identification

Fibre Colors:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	red	blue	green	yellow	violet	white	orange	grey	brown	black	turquoise	pink
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	red	blue	green	yellow	violet	white	orange	grey	brown	white	turquoise	pink

|=one black ring

Micromodule Colour:

The micromodule colour is white.

Sheath Colour:

The outer sheath colour is grey-white (RAL9002).

Sheath Marking: the outer sheath is marked with black color, in 1 meter intervals by ink jet method as follows:

nFO	G.657A2	mm/yyyy	CPR B2ca-s1a, d1, a1	mmmm
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where: n=nr. of fibers; mm/yyyy= month/year of production, mmmm=Sequential Length Mark

Logistic

Packing:

On bobbins with protection.

Delivery Lengths: 500 ± 50m, 1000 ± 100 m.

Other lengths available upon agreement, up to a maximum of 10% of the total number of cable lengths could be shorter than nominal values.

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