

Indoor cable CLT, Euroclass B2_{ca} – s1, d1, a1

P/N: CLTIxxyyy-B2ca



Features

- fully dielectric construction, halogen-free
- tensile elements made of water blocking glass yarns
- primary protection of 250 µm
- CLT - central loose tube
- suitable for indoor environment
- resistant to moisture and water
- partial rodent protection (glass rodent protection - GRP)
- ideal for horizontal campus duct installations using blowing and pulling technique

12 fibers

OM3 P/N: CLTI12OM3-B2ca

OM3 multimode 50/125 µm

OS2 P/N: CLTI12OS2-B2ca

OS2 singlemode 9/125 µm (ITU-T G.652.D)

24 fibers

OS2 P/N: CLTI24OS2-B2ca

OS2 singlemode 9/125 µm (ITU-T G.652.D)

Reaction to fire and flame resistance

Reaction to fire	B2 _{ca} – s1, d1, a1	EN 50575, EN 13501-6
Fire safety	flame retardancy	EN 60332-1-1, EN 60332-1-2
	halogen acidity	EN 61034-1, EN 61034-2
	smoke performance	EN 60754-2

Mechanical properties

Number of fibers		12	24
Nominal cable diameter		5,4 mm	5,4 mm
Sheath		0,9 mm	0,9 mm
Loose tube diameter		2,4 mm	2,4 mm
Cable weight netto		32 kg/km	32 kg/km
Min. bending radius	installation	108 mm	108 mm
	operation	81 mm	81 mm
Max. tensile strength		1 000 N	1 000 N
Crush resistance	installation	1 000 N	1 000 N
	operation	500 N	500 N
Temperature range	installation	-5 °C to 50 °C	
	operation	-20 °C to 60 °C	

Fiber properties

Cabled optical fibre (ISO/IEC 11801)	OM3	OS2
IEC 60793-2	10-A1a.2	50-B1.3
ITU-T	—	G.652D
Attenuation @ 850 / 1300 nm (dB/km)	≤ 2,4 / ≤ 0,6	—
Attenuation @ 1310 / 1550 nm (dB/km)	—	≤ 0,32 / ≤ 0,18
Bandwidth @ 850 / 1300 nm (MHz.km)	≥ 1 500 / ≥ 500	—
Numerical Aperture	0,200 ± 0,015	—
Refractive index @ 850 / 1300 nm	1,482 / 1,477	—
Refractive index @ 1310 / 1550 nm	—	1,4691 / 1,4696
Core diameter (µm)	50 ± 2	—
MFD (µm)	—	9,2 ± 0,4 / 10,4 ± 0,5
Overall coating diameter (µm)	242 ± 5	242 ± 5



The determination of Reaction to Fire Class Performance of this cable has been performed by Product Certification Body notified by European Commission, which also carries out the assessment and verification of constant performance (AVCP) in the System 1+.