

Universal gel-free central loose tube cable, Euroclass B2_{ca}-s1a, d0, a1

P/N: CLTGFxyyy-B2ca

LSFR0H

GRP

Indoor
Outdoor

B2_{ca}

OM3
multimode

OM4
multimode

OS2
singlemode



Features

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

4 fibers

OM3 P/N: CLTGF04OM3-B2ca

OM3 multimode 50/125 µm

OM4 P/N: CLTGF04OM4-B2ca

OM4 multimode 50/125 µm

OS2 P/N: CLTGF04OS2-B2ca

OS2 singlemode 9/125 µm
(ITU-T G.652.D and G.657.A1)

8 fibers

OM3 P/N: CLTGF08OM3-B2ca

OM3 multimode 50/125 µm

OM4 P/N: CLTGF08OM4-B2ca

OM4 multimode 50/125 µm

OS2 P/N: CLTGF08OS2-B2ca

OS2 singlemode 9/125 µm
(ITU-T G.652.D and G.657.A1)

12 fibers

OM3 P/N: CLTGF12OM3-B2ca

OM3 multimode 50/125 µm

OM4 P/N: CLTGF12OM4-B2ca

OM4 multimode 50/125 µm

OS2 P/N: CLTGF12OS2-B2ca

OS2 singlemode 9/125 µm
(ITU-T G.652.D and G.657.A1)

Reaction to fire and flame resistance

Reaction to fire	B2 _{ca} – s1a, d0, a1	EN 50575, EN 13501-6
	flame retardancy	EN 60332-3-25
Fire safety	halogen acidity	EN 60754-2
	smoke performance	EN 61034-1, EN 61034-2

Mechanical properties

Number of fibres	4	8	12
Nominal cable diameter	7,8 mm	7,8 mm	7,8 mm
Sheath	1,5 mm	1,5 mm	1,5 mm
Loose tube diameter	2,8 mm	2,8 mm	2,8 mm
Cable weight netto	70 kg/km	70 kg/km	70 kg/km
Min. bending radius	installation	78 mm	78 mm
	operation	32mm	32 mm
Tensile strength	installation	3000 N	3000 N
	operation	1000 N	1000 N
Crush resistance	2000 N / 100mm	2000 N / 100mm	2000 N / 100mm
Temperature range	installation	-5°C to 50°C	-5°C to 50°C
	operation	-40°C to 70°C	-40°C to 70°C

Fibre properties

Cabled optical fibre ISO/IEC 11801	OM3	OM4	OS2
IEC 60793-2	10-A1a.2	10-A1a.3	50-B1.3
ITU-T	—	—	G.652.D and G.657.A1
Attenuation @ 850 / 1300 nm (dB/km)	≤ 2,5 / ≤ 0,6	≤ 2,5 / ≤ 0,6	—
Attenuation @ 1310 / 1550 nm (dB/km)	—	—	≤ 0,33 / ≤ 0,20
Bandwidth 850 / 1300 nm (MHz.km)	≥ 1 500 / ≥ 500	≥ 3 500 / ≥ 500	—
Numerical Aperture	0,200 ± 0,015	0,200 ± 0,015	—
Refractive index @ 850 / 1300 nm	1,482 / 1,477	1,482 / 1,477	—
Refractive index @ 1310 / 1550 nm	—	—	1,467 / 1,468
Core diameter (µm)	50 ± 2	50 ± 2	—
MFD (µm)	—	—	9,2 ± 0,4
Overall cladding diameter (µm)	125 ± 1,0	125 ± 1,0	125 ± 0,7



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+.