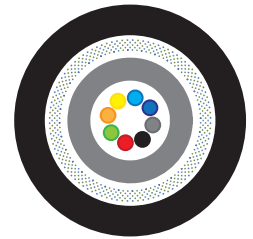
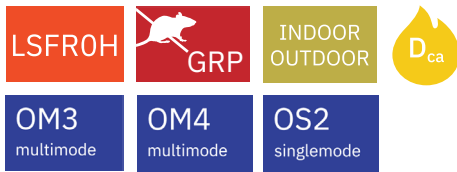


Universal CLT cable, Euroclass D_{ca} - s2, d1, a1

P/N: CLTDxyyy-Dca



Features

- fully dielectric construction, halogen-free and fire retardant sheath
- tensile elements made of water blocking glass yarns
- primary protection of 250 µm
- central loose tube filled with water blocking gel
- 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: CLTD04OM3-Dca
OM3 multimode 50/125 µm

OM4 P/N: CLTD04OM4-Dca
OM4 multimode 50/125 µm

OS2 P/N: CLTD04OS2-Dca
OS2 singlemode 9/125 µm
(ITU-T G.652.D / G.657.A1)

8 fibers

OM3 P/N: CLTD08OM3-Dca
OM3 multimode 50/125 µm

OM4 P/N: CLTD08OM4-Dca
OM4 multimode 50/125 µm

OS2 P/N: CLTD08OS2-Dca
OS2 singlemode 9/125 µm
(ITU-T G.652.D / G.657.A1)

12 fibers

OM3 P/N: CLTD12OM3-Dca
OM3 multimode 50/125 µm

OM4 P/N: CLTD12OM4-Dca
OM4 multimode 50/125 µm

OS2 P/N: CLTD12OS2-Dca
OS2 singlemode 9/125 µm
(ITU-T G.652.D / G.657.A1)

24 fibers

OM3 P/N: CLTD24OM3-Dca
OM3 multimode 50/125 µm

OM4 P/N: CLTD24OM4-Dca
OM4 multimode 50/125 µm

OS2 P/N: CLTD24OS2-Dca
OS2 singlemode 9/125 µm
(ITU-T G.652.D / G.657.A1)

Note: Possible to deliver cables with different number and type of fibers.

Reaction to fire and flame resistance

Reaction to fire	D _{ca} - s2, d1, a1	
	lame retardancy	EN 60332-3-22 (cat. A)
Fire safety	halogen acidity	IEC 61034-2
	smoke performance	IEC 60754-1, IEC 60754-2

Mechanical properties

Number of fibres		4	8	12	24
Loose tube diameter		2,3 mm	2,3 mm	2,3 mm	3,0 mm
Sheath		1,0 mm	1,0 mm	1,0 mm	1,1 mm
Nominal cable diameter		5,2 mm	5,2 mm	5,2 mm	5,8 mm
Cable weight netto		33 kg/km	33 kg/km	33 kg/km	41 kg/km
Min. bending radius acc. IEC 60794-1-21	installation	104 mm	104 mm	104 mm	116 mm
	operation	52 mm	52 mm	52 mm	58 mm mm
Tensile strenght acc. IEC 60794-1-21	installation	1 000 N	1 000 N	1 000 N	1 000 N
	operation	300 N	300 N	300 N	300 N
Impact resistance acc. IEC 60794-1-21		10 Nm	10 Nm	10 Nm	10 Nm
Crush resistance acc. IEC 60794-1-21		1 000 N	1 000 N	1 000 N	1 000 N
Temperature range acc. IEC 60794-1-22	installation	-5°C to 50°C			
	operation	-30°C to 70°C			

Fiber properties

Cabled optical fibre ISO/IEC 11801 and EN 50173	OM3	OM4	OS2
IEC 60793-2	10-A1a.2	10-A1a.3	50-B1.3
ITU-T P1	—	—	G.652.D / G.657.A1
Attenuation @ 850 / 1300 nm (dB/km)	≤ 2,5 / ≤ 0,6	≤ 2,5 / ≤ 0,6	—
Attenuation @ 1310 / 1550 / 1625 nm (dB/km)	—	—	≤ 0,32 / ≤ 0,18 / ≤ 0,20
Bandwidth 850 / 1300 nm (MHz.km)	≥ 1500 / ≥ 500	≥ 3500 / ≥ 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	—	—	1,4691 / 1,4696
MFD (µm) pri 1310 / 1550 nm	—	—	9,2 ± 0,4 / 10,4 ± 0,5
Core diameter (µm)	50 ± 2,5	50 ± 2,5	—
Overall coating diameter (µm)	125 ± 1	125 ± 1	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 3.