

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

CLTDxxyyy-Dca - KELINE SYSTEM - Optical Fibre Cable X x Y - LSFROH - Euroclass Dca - s2, d1, a1 - Glass Yarn Rodent Protected OP3 (ID number, WW/YYYY)

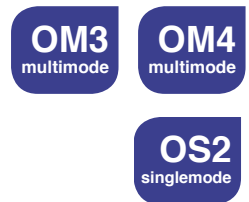


features

- complies with the Construction Products Regulation (CPR) EU No. 305/2011 and reaction to fire requirements according to the harmonized standards EN 50575: 2014+A1: 2016
- fully dielectric construction, halogen-free LSFROH 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

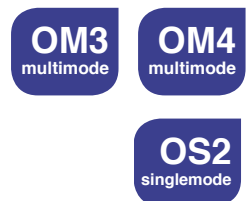
4-fibers

P/N: CLTD04OM3-Dca	OM3 multimode 50/125 µm
P/N: CLTD04OM4-Dca	OM4 multimode 50/125 µm
P/N: CLTD04OS2-Dca	OS2 singlemode 9/125 µm (ITU-T G.652.D)



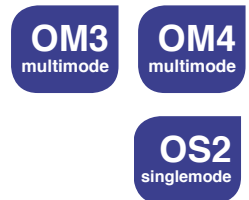
8-fibers

P/N: CLTD08OM3-Dca	OM3 multimode 50/125 µm
P/N: CLTD08OM4-Dca	OM4 multimode 50/125 µm
P/N: CLTD08OS2-Dca	OS2 singlemode 9/125 µm (ITU-T G.652.D)



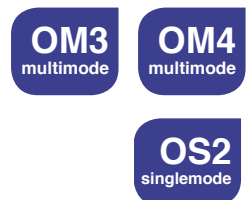
12-fibers

P/N: CLTD12OM3-Dca	OM3 multimode 50/125 µm
P/N: CLTD12OM4-Dca	OM4 multimode 50/125 µm
P/N: CLTD12OS2-Dca	OS2 singlemode 9/125 µm (ITU-T G.652.D)



24-fibers

P/N: CLTD24OM3-Dca	OM3 multimode 50/125 µm
P/N: CLTD24OM4-Dca	OM4 multimode 50/125 µm
P/N: CLTD24OS2-Dca	OS2 singlemode 9/125 µm (ITU-T G.652.D)



reaction to fire and flame resistance

Reaction to fire	D _{ca} - s2, d1, a1	
Fire safety	flame retardancy	EN 60332-3-22 (cat. A)
	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	installation	104 mm	104 mm	104 mm	116 mm
	operation	52 mm	52 mm	52 mm	58 mm
Tensile strenght	installation	1000 N	1000 N	1000 N	1000 N
	operation	300 N	300 N	300 N	300 N
Impact resistance		10 Nm	10 Nm	10 Nm	10 Nm
Crush resistance		1000 N	1000 N	1000 N	1000 N
Temperature range	installation	-5°C to 50°C			
	operation	-30°C to 70°C			

fibre properties MM

Cabled optical fibre (ISO/IEC 11801)	OM3	OM4
IEC 60793-2	10-A1a.2	10-A1a.3
ITU-T P1	-	-
Attenuation @ 850 / 1300 nm (dB/km)	≤ 2,5 / ≤ 0,6	≤ 2,5 / ≤ 0,6
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
Core diameter (µm)	50 ± 2,5	50 ± 2,5
Overall coating diameter (µm)	125 ± 1	125 ± 1

fibre properties SM

Cabled optical fibre ISO/IEC 11801	OS2
IEC 60793-2	50-B1.3
ITU-T P1	G.652.D
Attenuation @ 1310 / 1550 / 1625 nm (dB/km)	≤ 0,33 / ≤ 0,20 / ≤ 0,24
Refractive index @ 1310 / 1550 / 1625 nm	1,467 / 1468 / 1468
MFD (µm) @ 1310 / 1550 nm	9,0 ± 0,4 / 10,1 ± 0,5
Overall coating diameter (µm)	125 ± 0,7