

Universal central loose tube cable, Euroclass B2_{ca}

CLTDxxyyy-B2ca - KELINE SYSTEM - Optical Fibre Cable X x Y - LSOH - Euroclass B2ca - s1a, d1, a1 - Glass Yarn Rodent Protected OP2 (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 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

12-fibers

P/N: **CLTD12OM3-B2ca**

OM3 multimode 50/125 µm

P/N: **CLTD12OS2-B2ca**

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



24-fibers

P/N: **CLTD24OS2-B2ca**

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



reaction to fire and flame resistance

Reaction to fire	B2 _{ca} - s1a, d1, a1	EN 50399
	flame retardancy	IEC 60332-1-2
Fire safety	halogen acidity	IEC 61034-2
	smoke performance	IEC 60754-1, IEC 60754-2

mechanical properties

Number of fibres		12	24
Nominal cable diameter		10 mm	10 mm
Sheath		2,0 mm	2,0 mm
Loose tube diameter		2,8 mm	2,8 mm
Cable weight netto		112 kg/km	112 kg/km
Min. bending radius	installation	180 mm	180 mm
	operation	90 mm	90 mm
Tensile strength	installation	3000 N	3000 N
	operation	1000 N	1000 N
Impact resistance		2000 N / 100mm	2000 N / 100mm
Temperature range	installation	-40°C to 70°C	-40°C to 70°C
	operation	-40°C to 70°C	-40°C to 70°C

fibre properties MM

Cabled optical fibre (ISO/IEC 11801)	OM3
IEC 60793-2	10-A1a.2
ITU-T P1	-
Attenuation @ 850 / 1300 nm (dB/km)	≤ 2,8 / ≤ 0,8
Bandwidth 850 / 1300 nm (MHz.km)	≥ 1500 / ≥ 500
EMBc pri 850 / 953 (MHz.km)	≥ 2000
Numerical Aperture	0,200 ± 0,015
Refractive index @ 850 / 1300 nm	1,482 / 1,477
Core diameter (µm)	50 ± 2
Core / cladding concentricity error (µm)	≤ 1
Overall coating diameter (µm)	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 / 1383 / 1550 nm (dB/km)	≤ 0,35 / ≤ 0,35 / ≤ 0,21
Refractive index @ 1310 / 1550 nm	1,470
MFD (µm)	9,2 ± 0,4
Core / cladding concentricity error (µm)	≤ 0,5
Overall coating diameter (µm)	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+