

SureLIGHT® CLTGF InteX LSZH FireFighter® HFFR

Cable Design

Fibre Type	62.5/125	50/125	9/125
Fibre Colour Code	acc. to IEC 60304		
Loose Tube	PBT Gel filled with optical fibres		
Diameter	2,50 mm		
Strength Member	Glass yarns (swellable for longitudinal watertightness and as rodent protection)		
Outer Jacket	FR-LSZH FireFighter®, UV-Stable		
Thickness	1,0 ± 0,2 mm		
Diameter	Ø 5,40 ± 0,5 mm		
Colour	Black		



Fire Performance

Flame Retardant	EN 60332-2-22 (Cat.A)
Acid Gases	EN 50267-1, EN 50267-2-2, EN 50267-2-3
Smoke Density	EN 61034-1, EN 61034-2

Specification

Part Number	No. Of Fibres
10*044CLT-01	4
10*084CLT-01	8
10*124CLT-01	12
10*164CLT-01	16
10*244CLT-01	24

* denotes fibre type requires ; 1=62.5/125 | 2 = 50/125 OM2 | 3 = 50/125 OM3 | 8 = 9/125

Mechanical & Thermal Characteristics

Tensile strength (max.)	*E1A		1100	N
Crush resistance	*E3		2000	N/10cm
Impact resistance	*E4		3	impacts (w/20N.m)
Bending Radius (min.)	*E11A	Static	15	x Ø
	*E11B	Dynamic	20	x Ø (load)
Moisture resistance	*F5		passed	
Compound flow	*E14		30	cm / 24h / 70°C passed
Temperature Range	*F1	Installation	-15 to +50 °C	
	*F1	Operating	-20 to +70 °C	
	*F1	Storage	-20 to +70 °C	
Nominal Weight			35,5	kg/km

* IEC 60794-1-2

Note. When installing under temperatures below -5°C the cable has to be stocked in temp of 20°C for at least 24h before installation.

Optical Characteristics

62.5/125 OM1 multi-mode graded-index optical fibres acc. to IEC 60793

Fibre Type	Mode-Field Diameter (µm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Bandwidth (MHz·km)	Ethernet Performance (m)		Num. Aperture (µm)	Refr. Index
					1 GBE	10 GBE		
62.5/125 OM1	62.5 ± 2.5 125 ± 1	850	2.7 / 3.2	≥ 200	275	33	0.275 ± 0.015	1.495
		1300	0.6 / 1.1	≥ 600	550	n.a		1.490

50/125 OM2 / OM3 multi-mode graded-index optical fibres acc. to IEC 60793

Fibre Type	Mode-Field Diameter (µm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Bandwidth (MHz·km)	Ethernet Performance (m)		Num. Aperture (µm)	Refr. Index
					1 GBE	10 GBE		
50/125 OM2	50 ± 2.5 125 ± 1	850	2.3 / 2.8	≥ 600	600	82	0.20 ± 0.015	1.481
		1300	0.6 / 0.9	≥ 1200	600	n.a		1.476
50/125 OM3	50 ± 2.5 125 ± 1	850	2.6 / 2.8	≥ 1500	600	300	0.20 ± 0.015	1.481
		1300	0.6 / 0.9	≤ 500	550	n.a		1.476

9/125 G652D Single-mode matched-cladded optical fibre acc. to ITU

Fibre Type	Mode-Field Diameter (µm)	Wavelength (nm)	Attenuation average/max. (dB/km)	Dispersion (ps/(nm·km))	PMD (ps/km)	Cable Cut-off Wavelength (nm)
9/125 G652D	9.2 ± 0.4 125 ± 0.7	1310	0.32 / 0.40	≤ 3.5	≤ 0.2	≤ 1260
		1550	0.21 / 0.30	≤ 18		