

LLCAU50+

Armored – Unitube Multimode 50/125 OM2

General standards

- General: UniLooseTube cable, outdoor ,PVC, metallic armoring, 50µm — Corrugated steel tape armoring PVC-FieBur® sheath
- Standards: EN 50173-1:2002, cat. OM2 - ISO/IEC 11801:2002 2nd ed., cat. OM2 - IEEE 802.3-2002

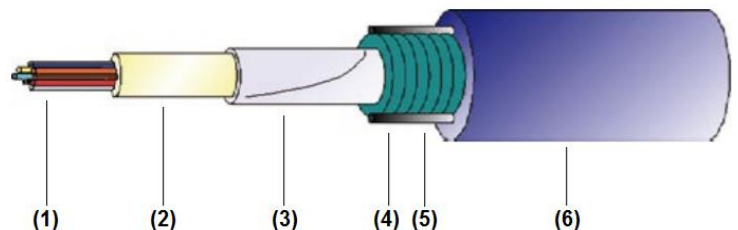


Application

Developed to be the best option of the central-loose-tube in-/outdoor cables family, featuring a metallic armoring. The jelly-filled plastic compound tube contains up to 24 fibers, embedded in a layer of strength members, followed by an overlapping corrugated steel tape, and finally coated by a FireBur® PVC outer-sheath. Corrugated steel armoring is considered one of the most secure rodent resistant and water-proof protections in cables.

CABLE DIAGRAMM CONSTRUCTION

- 1 – Optical Fibers: up to 24 x 50/125µm colors red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink, (>12-fo colored synthetic binder)
- 2 – Central Unitube (Jelly-Filled):
 - Diameter: (12-16-fo) 3mm (nominal)
 - Jelly-filled: (16 – 24-fo) 3,5mm (nominal)
 - Color: Black
- 3 – Wrapping:
 - Material: swelling tape
- 4 – Corrugated Steel Tape:
 - Thickness: 1.2mm * 2 (nominal)
- 5 – Strength Members:
 - Material: Steel wires
 - Diameter: 1,57mm (nominal)



6 – Outer Sheath:

- Material: FireBur®-PVC Black
- Diameter: (12- 16-fo) 9,5mm (nominal)
- Diameter: (16 -24-fo) 10,5 mm (nominal)

ECHANICAL PERFORMANCE - CABLE

Features			Test Method
WEIGHT	kg/km	2 - 16fibers: 75 / 18 - 24 fibers: 85	-
TEMPERATURE RANGE	°C	oper.: -40 up to +70 / inst.: -40 up to +70	IEC 60794-1-F1
BENDING RADIUS	mm	55	IEC 60794-1-E11
TENSILE STRENGTH	N	oper.: 500 / inst.: 1000	IEC 60794-1-E1
CRUSH RESISTANCE	N/10cm	2000	IEC 60794-1-E3
IMPACT RESISTANCE	Nm	10	IEC 60794-1-E4

OPTICAL PERFORMANCE – FIBERS (acc. to ITU-T G.651, IEC60793-2-10 Cat. A1a, EN60793-2-10 Class A1a)

Item	Test Method		
CORE DIAMETER	µm	50 ±2,5	IEC 60793-1-20
CLADDING DIAMETER	µm	125 ± 2	IEC 60793-1-20
CLADDING NON-CIRCULARITY	%	≤1,0	IEC 60793-1-20
CORE NON-CIRCULARITY	%	≤6,0	IEC 60793-1-20
CORE/CLADDING CONCENTR.	µm	≤1,5	IEC 60793-1-20
TYP. ATTENUATION @ 850nm	dB/km	≤2,70	IEC 60793-2-10
TYP. ATTENUATION @ 1300nm	dB/km	≤0,80	IEC 60793-2-10
BANDWITH @ 850nm	MHz * km	500	IEC 60793-2-10
BANDWITH @ 1300nm	MHz * km	800	IEC 60793-2-10
GROUP INDEX OF REFRACTION	@850nm: 1482 / @1300nm: 1477		
PROOF STRESS LEVEL	GPa	≥ 0,7 (~ 1%)	IEC 60793-2-30
STRIP FORCE (AVERAGE)	N	1,0 ≤ F _{ave.strip} ≤ 5,0	IEC 60793-2-32
STRIP FORCE (PEAK)	N	1,3 ≤ F _{ave.strip} ≤ 8,9	IEC 60793-2-32
ENTIRE RANGE OF SPEC'S FOR 50µm FIBER REFER TO	LL-F-006-50		

OTHER CHARACTERISTICS

Wavelength range (nm)	
Fiber requirements	ISO/IEC 11801:2002 cat. OM2, EN50173-1:2002 cat. OM2, IEEE 802.3-2003, IEEE 802.3ae
Marking	ww / yyyy LightLine LL-CA-126+ no. fo. G50/125 metric
Typical delivery length	3000m ± 200m per drum

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