

LLCAUOM3+

Armored Multimode in/out Cable with two steel wire - OM3

General standards

- General UniLoose Tube cable, indoor/outdoor, PE, metallic armoring, two steel wires, 50µm-OM3 — Corrugated steel tape armoring PE sheath
- Standards: EN 50173-1:2002, cat. OM3 - ISO/IEC 11801:2002 2nd ed., cat. OM3 - IEEE 802.3-2002

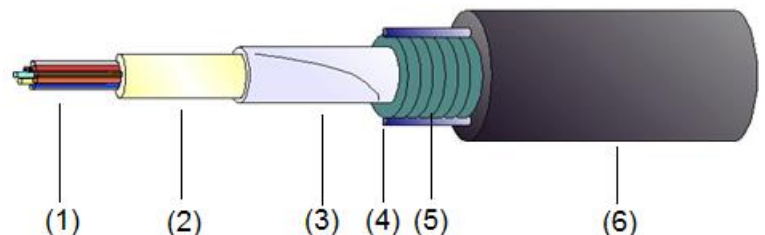


Application

Developed to be the ultimate option of the central-loose-tube outdoor cables family, featuring a metallic armoring. The plastic core with a jelly-filled helical coated channel, Spiral Space® design, contains up to 24 fibers, wrapped longitudinally with swelling tape, followed by an overlapping corrugated steel tape, and finally coated by a PE outer-sheath with two high tensile strength steel wires. Suitable for duct or direct burial installations. Also for arctic climate when the soil around the cable can be frozen; extra high crush strength.

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 Plastic core (Jelly-Filled):
 - Diameter: 5,0mm (nominal)
 - Thickness: 0,5mm – 0,7mm (nominal)
 - Color: white
- 3 – Wrapping: swelling tape material
- 4 – Corrugated Steel Tape:
 - Thickness: 0,155mm (nominal)
 - Overlap: 3,0mm (nominal)
- 5 – Strength Members:
 - Material: steel wires
 - Diameter: 1,57mm (nominal)
- 6 – PE outer-sheath



6 – Outer Sheath:

- Material: PE (Polyethylene) black
- Thickness: 2,4mm (nominal)
- Diameter: 10,7mm (nominal)

MECHANICAL PERFORMANCE - CABLE

Features		Test Method
WEIGHT	kg/km	175
TEMPERATURE RANGE	°C	-10 up to +60
BENDING RADIUS	mm	oper.: 240 / inst.: 270
TENSILE STRENGTH	N	oper.: 3500 / inst.: 5000
CRUSH RESISTANCE	N/10cm	4000
IMPACT RESISTANCE	Nm	25

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

Item	Singlemode (ITU-T G.652.D)	Test Method
CORE DIAMETER	µm	50 + 2,5
CLADDING DIAMETER	µm	125 ± 2
CLADDING NON-CIRCULARITY	%	≤1,0
CORE NON-CIRCULARITY	%	≤6,0
CORE/CLADDING CONCENTR.	µm	≤1,5
TYP. ATTENUATION @ 850nm	dB/km	≤3,0
TYP. ATTENUATION @ 1300nm	dB/km	≤1,0
BANDWIDTH @ 850nm	MHz * km	1500
BANDWIDTH @ 1300nm	MHz * km	500
EFF. MODAL BANDWIDTH @850 nm	MHz * km	2000
PROOF STRESS LEVEL	GPa	≥ 0,7 (~ 1%)
STRIP FORCE (AVERAGE)	N	1,0 ≤ F _{ave.strip} ≤ 5,0
STRIP FORCE (PEAK)	N	1,3 ≤ F _{ave.strip} ≤ 8,9
ENTIRE RANGE OF SPEC'S FOR OM3 FIBER REFER TO		LL-F-008-OM3

OTHER CHARACTERISTICS

Wavelength range (nm)	
Fiber requirements	ISO/IEC 11801:2002 cat. OM3, EN50173-1:2002 cat. OM3, IEEE 802.3-2003, IEEE 802.3ae
Marking	ww / yyyy Fumo Telecom LightLine LL-CA-UOM3 no. fo. G50/125-OM3 metric M
Typical delivery length	4000m ± 300m per drum

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