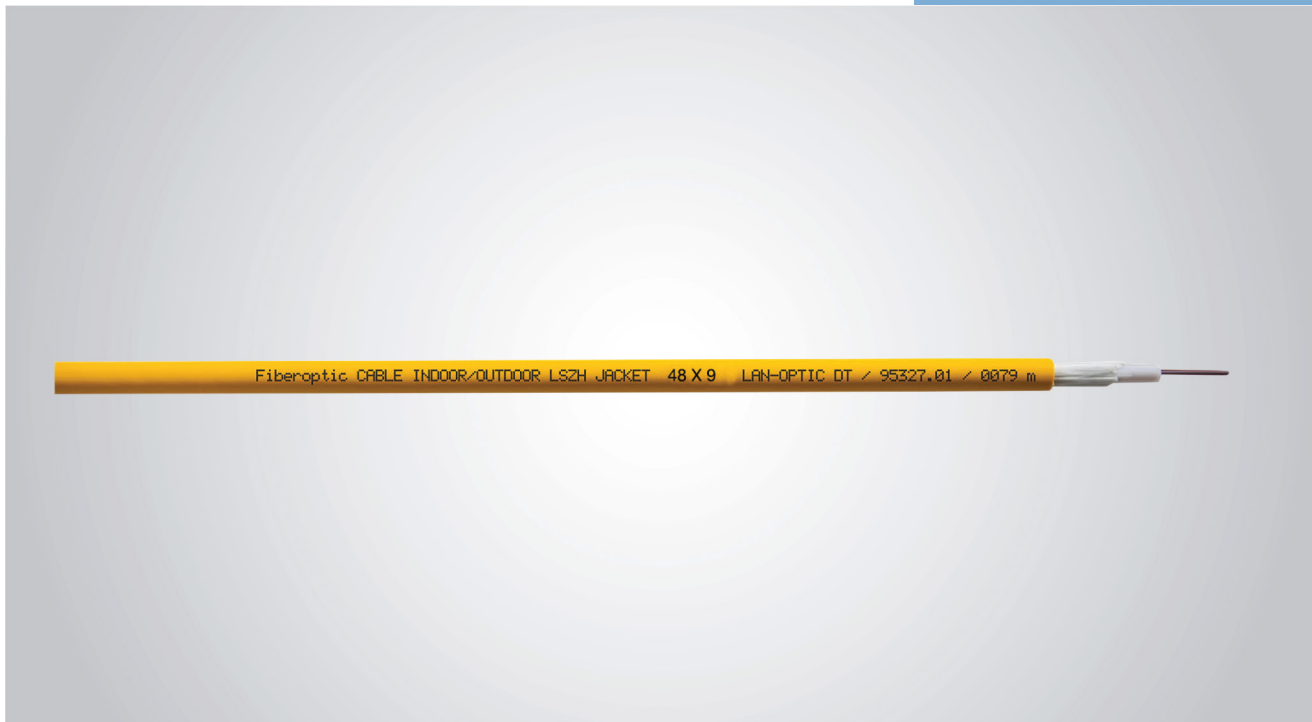


LAN-OPTIC

Fiberkabel 48x9/125 LSZH gul inden/
udendørs LAN-OPTIC OS2



Anvendelse

Anvendes i datainstallationer som backbone eller ved lange afstande, hvor der ønskes stor båndbrede. Kablet kan anvendes inde/udendørs. Skal føres i rør ved udendørs installationer.

Specifikation

Konstruktion: Loose tube

Antal fiber: 48

Fiberstørrelse: 9 my

IOE, 1310nm: 1.467

IOE, 1550nm: 1.468

IOE, 1625nm: 1.468

Kappe: LSZH

Trækstyrke: 700 N

Standard: G657A1

CRR: ECa

Oplægning: Tromle 4.000mtr

Varenr.: 232554



96 fo cable- not to scale -

- **Central Strength Member (CSM):** glass fibre reinforced plastic rod (FRP) with plastic overshathing.
- **Loose Tube:** thermoplastic material, containing up to 12 fibres and filled with a suitable water tightness compound.
- **Filler Elements:** thermoplastic rods, where needed.
- **Stranding:** loose tubes (and fillers), SZ stranded around the CSM. A white-red identification thread is laid into the optical core
- **Longitudinal Water Tightness:** dry core with water swellable elements.
- **1 Ripcord.**
- **Outer Sheath:** HFFR.

Technical data

No. of Fibres		48		
Design		6 x 12		
Loose Tube / Filler - Ø	mm	1.5		
CSM - Ø	mm	1.6		
CSM-Oversheathing - Ø	mm	-		
Outer Sheath Thickness	mm	1.0		
Cable Diameter	mm	7.0 (max)		
Cable Weight	kg/km	45		
Max. Installation Tension	N	700		
Minimum Bending Radius	mm	Without Tension 10 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø
Temperature Range	°C	Installation - 30 to + 60	Transport & Storage - 40 to + 70	Operation - 40 to + 70

Please refer to our General Installation, Safety & Handling recommendations before handling.

Main characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	See configuration table	$\Delta\alpha$ reversible, fibre strain $\leq 0.5\%$
Max. Operation Tension	IEC 60794-1-2-E1	130 N	no fibre strain, $\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	350 N / 100 mm, max. 15 min	$\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	2 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB after the test
Torsion	IEC 60794-1-2-E7	100N, +/- 180°, 5 cycles, 2 m	$\Delta\alpha \leq 0.05$ dB after the test, no damage
Cable Bend	IEC 60794-1-2-E11	R=10x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-2-F1	-15°C to +60°C -30°C to +70°C -40°C to +70°C	$\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.10$ dB/km $\Delta\alpha \leq 0.15$ dB/km
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water column=1m	no water leakage in 24h

All optical measurements at 1550 nm. Acceptance criteria for MM fibres ≤ 0.2 dB for all mechanical test and ≤ 0.5 dB/km for temperature cycling, instead of 0.05 dB (SM).

Fire Performance

Test	Test Standard	Specified Value	Acceptance Criteria
Single Cable Test	IEC 60332-1	unburnt cable length	> 50 mm
Halogen Content	IEC 60754-1	halogen content	< 0.5 %
Corrosivity of Smoke Gases	IEC 60754-2	pH-value	≥ 4.3
Conductivity of Smoke Gases	IEC 60754-2	conductivity	> 10 µS

Identification

Buffer Tube Colours

No.	1	2	3	4	5	6	7	8
Colour	red	green	blue	yellow	white	grey	brown	violet

Filler Elements Colours:

All filler elements are uncoloured (natural).

Sheath Colour:

The outer sheath colour is yellow.

Sheath Marking:

The outer sheath is marked in 1 meter intervals as follows: Lan-Optic fiber optic cable indoor/outdoor LSZH jacket 48xOS2

Delivery Lengths:

Standard delivery lengths are 4 km -1% / +3%