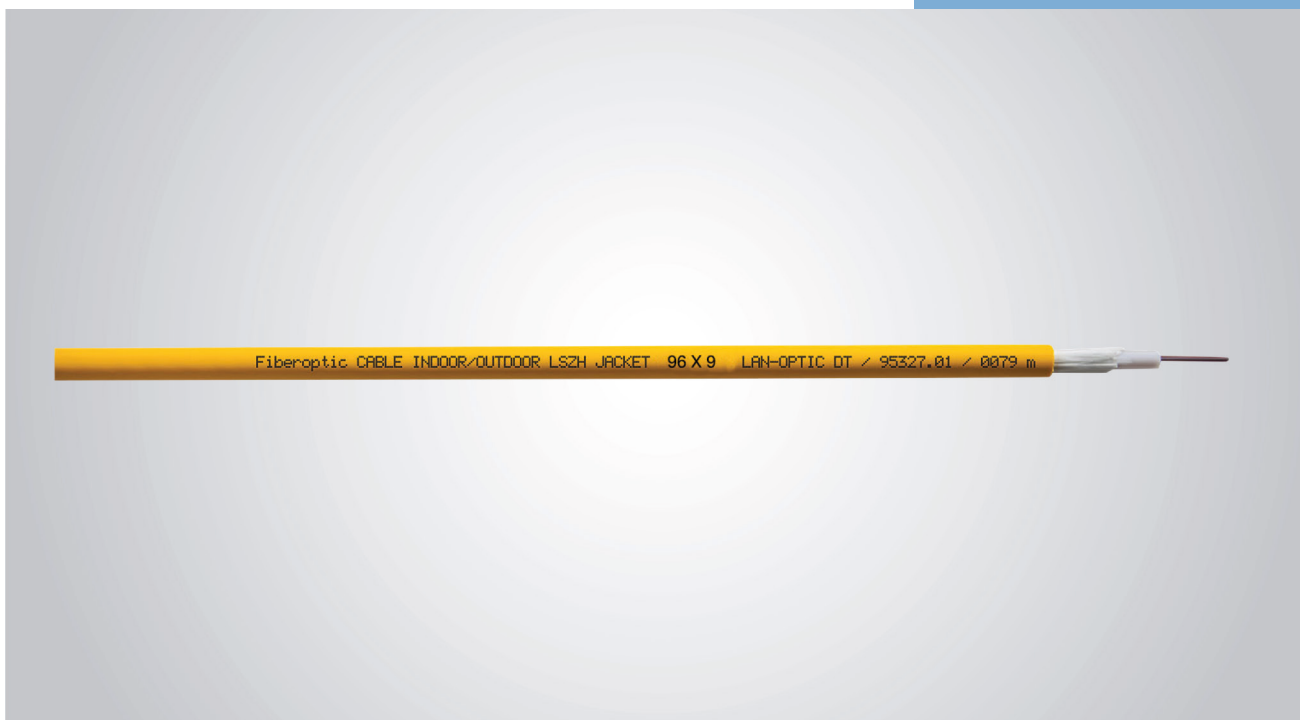


LAN-OPTIC

Fiiberkabel 96x9/125 LSZH gul
inden/udendørs LAN-OPTIC OS2



Anvendelse

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

Varenr.: 232556

Specifikation

Konstruktion: Loose tube

Antal fiber: 96

Fiberstørrelse: 9 my

IOR, 1310nm: 1.467

IOE, 1550nm: 1.468

IOE, 1625nm: 1.468

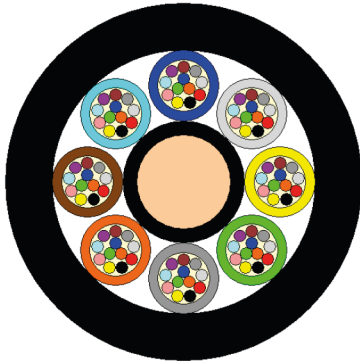
Kappe: LSZH

Trækstyrke: 1000 N

Standard: G657A1

CRR: ECa

Oplægning: Tromle 4000mtr



96 fo cable- not to scale -

- **Central Strength Member (CSM):** glass fibre reinforced plastic rod (FRP) with plastic oversheathing.
- **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 | 96 | | |
|---------------------------|-------|---------------------------------|--|
| Design | | 8 x 12 | |
| Loose Tube / Filler - Ø | mm | 1.5 | |
| CSM - Ø | mm | 2.0 | |
| CSM-Oversheathing - Ø | mm | 2.6 | |
| Outer Sheath Thickness | mm | 1.0 | |
| Cable Diameter | mm | 8.2 (max) | |
| Cable Weight | kg/km | 60 | |
| Max. Installation Tension | N | 1000 | |
| 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).

Optical Characteristics

See the attached cabled optical fibre data sheet.

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

Fibre Colours

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------|-----|-------|------|--------|-------|------|-------|--------|-----------|-------|--------|------|
| Colour | red | green | blue | yellow | white | grey | brown | violet | turquoise | black | orange | pink |

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: Fiberoptic indoor/outdoor LSZH jacket 96xG657A1 Lan-Optic

Logistic

Packing:

Plywood drums with protection.

Delivery Lengths:

Standard delivery lengths are 4 km with a tolerance of -1% / +3%