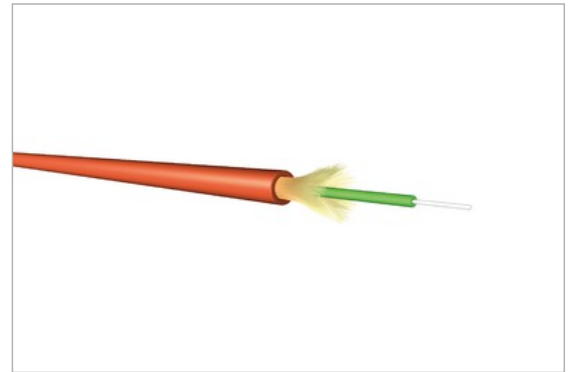


# FO Simplex cord 50/125µ OM2 LSOH 2,4mm

## Description

The standard fiber optic cable types of tde specifically for the assembling of patch and adapter cables, pigtails and trunk cables has been developed. Also the use in FTTH applications inside buildings is possible. The breakout cables have up to 24 individual elements with a 2mm diameter. The overall cable diameter is very slim.

These cables are characterized by very good termination properties. The cable jacket and the secondary coating are easy removable.



## Technical Data

|                  |             |
|------------------|-------------|
| Flame resistance | IEC 60332-3 |
|                  | IEC 60754   |
|                  | IEC 61034-1 |
|                  | IEC 61034-2 |

### Cable construction

|                  |  |
|------------------|--|
| Tight buffer     | 1x 900µ coated fiber (free movable in the compound)                    |
| Fiber type       | MM-OM2, 50/125µ, Corning   |
| Strength members | Aramid yarn (free movable in the compound)                             |
| Outer jacket     | LSZH (Halogen free, low smoke, flame retardant thermoplastic compound) |
| Jacket color     | Orange, RAL 2003   |
| Identification   | "t d e – IVH01G50-2.4 LSZH" and sequential meter marking + Lot number  |

### Physical properties

|                      |                |
|----------------------|----------------|
| Outer diameter cable | 2.4 ± 0.1 mm   |
| Temperature range    | -20°C to +70°C |

### FO Fiber

|      |                                     |
|------|-------------------------------------|
| Type | Corning 50/125µ OM2 multimode fiber |
|------|-------------------------------------|

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|              |         |
|--------------|---------|
| Manufacturer | Corning |
|--------------|---------|

## Optical Specifications

|                    |   |
|--------------------|---|
| Bandwidth          | 500 at 850 nm / 500 at 1300 nm                                      |
| Attenuation        | At 850 nm max. $\leq$ 2.5 dB/km<br>At 1300 nm max. $\leq$ 0.8 dB/km |
| Numerical Aperture | 0.200 $\pm$ 0.015   |

## Dimensional Specifications

|                                |                         |
|--------------------------------|-------------------------|
| Core Diameter                  | 50.0 $\pm$ 3.0 $\mu$ m  |
| Cladding Diameter              | 125.0 $\pm$ 2.0 $\mu$ m |
| Core-Clad Concentricity        | $\leq$ 3.0 $\mu$ m      |
| Cladding Non-Circularity       | $<$ 2.0%                |
| Core Non-Circularity           | $\leq$ 5.0%             |
| Coating Diameter               | 245 $\pm$ 5 $\mu$ m     |
| Coating-Cladding Concentricity | $<$ 12 $\mu$ m          |

## Environmental Specifications

| Environmental Test           | Test Condition                  | Induced Attenuation 850 nm and 1300 nm (dB/km) |
|------------------------------|---------------------------------|--|
| Temperature Dependence       | -60°C to +85°C                  | $\leq$ 0.20                                    |
| Temperature Humidity Cycling | -10°C to +85°C and 4% to 98% RH | $\leq$ 0.20                                    |
| Operating Temperature Range  | -60°C to +85°C                  |  |

## Mechanical Specifications

|            |  |
|------------|--|
| Proof Test | The entire fiber length is subjected to a tensile stress $\geq$ 100 kpsi (0.7 GN/m <sup>2</sup> ). |
| Length     | Fiber lengths available up to 8.8 km/spool.  |

## Performance Characterizations

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Refractive Index Difference         | 2%                              |
| Effective Group Index of Refraction | 850 nm: 1.490<br>1300 nm: 1.486 |

## FO Simplex cord 50/125 $\mu$ OM2 LSOH 2,4mm

|                                   |  |
|-----------------------------------|--|
| Fatigue Resistance Parameter (nd) | 20   |
| Coating Strip Force               | Dry: 0.6 lbs (2.7N)<br>Wet: 14 days in 23°C water soak: 0.6 lbs (2.7N)   |
| Chromatic Dispersion              | Zero Dispersion Wavelength ( $\lambda_0$ ): 1300 nm $\leq \lambda_0 \leq$ 1320 nm<br>Zero Dispersion Slope (S0): $\leq 0.101$ ps/(nm <sup>2</sup> *km) |

| Art.-No.           | Description                                    |
|--------------------|--|
| L-IVH01E09-2.4     | FO Simplex cord 9/125 $\mu$ G.652.D LSOH 2,4mm |
| L-IVH01G50-2.4     | FO Simplex cord 50/125 $\mu$ OM2 LSOH 2,4mm    |
| L-IVH01G50-OM3-2.4 | FO Simplex cord 50/125 $\mu$ OM3 LSOH 2,4mm    |
| L-IVH01G50-OM4-2.4 | FO Simplex cord 50/125 $\mu$ OM4 LSOH 2,4mm    |
| L-IVH01G62-2.4     | FO Simplex cord 62,5/125 $\mu$ OM1 LSOH 2,4mm  |