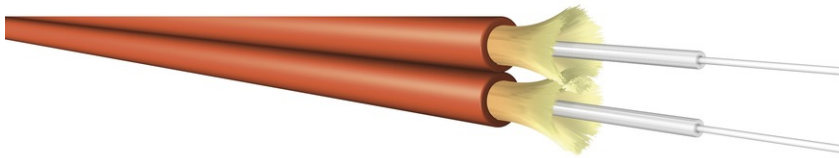


FO Duplex cord 50/125 $\mu$  OM2 LSOH 2,4mm



## tde - Standard FO Cables

The standard fiber optic cable types of tde specifically for the assembling of patch and adapter cables, pigtailed 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.



**tde<sup>®</sup>** trans data elektronik GmbH

**Headquarter address:**

Lingener Str. 2  
D-49626 Bippen/Ohrte  
Tel.: +49 5435 9511 0  
Fax.: +49 5435 9511 32

**Sales office address:**

Prinz-Friedrich-Karl-Str. 46  
D-44135 Dortmund  
Tel.: +49 231 914 36 99  
Fax.: +49 231 914 31 29

info@tde.de | www.tde.de

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

### Technical Data

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

### Cable construction

Type	IVH02G50 OM2
Tight buffer	2x 900 $\mu$ coated fibers (free movable in the compound)
Fiber type	MM-OM2, 50/125 $\mu$ , 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 – IVH02G50-2.4 LSZH" and sequential meter marking + Lot number

### Physical properties

Outer diameter cable	2x 2.4 $\pm$ 0.1 mm
Temperature range	-20°C to +70°C

### FO Fiber

Type	Corning 50/125 $\mu$ OM2 multimode fiber
Manufacturer	Corning

### Optical Specifications

Bandwidth	500 at 850 nm / 500 at 1300 nm
Attenuation	At 850 nm max. $\leq$ 2.5 dB/km 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

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

### Environmental Specifications

Environmental Test	Test Condition	Induced Attenuation 850 nm and 1300 nm (dB/km)
Temperature Dependence	-60°C to +85°C	≤ 0.20
Temperature Humidity Cycling	-10°C to +85°C and 4% to 98% RH	≤ 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 1300 nm: 1.486
Fatigue Resistance Parameter (nd)	20
Coating Strip Force	Dry: 0.6 lbs (2.7N) 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 Zero Dispersion Slope (S0): $\leq$ 0.101 ps/(nm <sup>2</sup> *km)

## Product variants & accessories

Art.-No.	Description
L-IVH02E09-2.4	FO Duplex cord 9/125 $\mu$ G.652.D LSOH 2,4mm
L-IVH02G50-2.4	FO Duplex cord 50/125 $\mu$ OM2 LSOH 2,4mm
L-IVH02G50-OM3-2.4	FO Duplex cord 50/125 $\mu$ OM3 LSOH 2,4mm
L-IVH02G50-OM4-2.4	FO Duplex cord 50/125 $\mu$ OM4 LSOH 2,4mm
L-IVH02G62-2.4	FO Duplex cord 62,5/125 $\mu$ OM1 LSOH 2,4mm