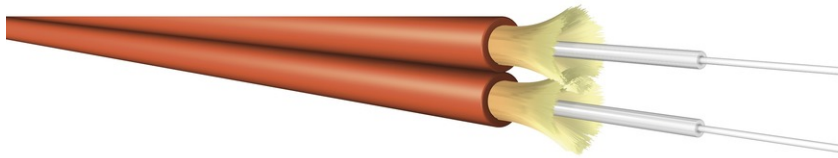


FO Duplex cord 50/125 $\mu$  OM2 LSOH 2,0mm



## tde - Standard FO Cables

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 FTTD 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.



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FO Duplex cord 50/125 $\mu$  OM2 LSOH 2,0mm

## Technical Data

### Cable Data

Type	IVH02G50 OM2
Fiber Amount	2
Fiber Type	MM-OM2, 50/125 $\mu$ , Corning
Secondary Coating	900 $\mu$ , easy strippable
Strength Members	Aramid yarns
Outer Jacket	LSOH (Halogen free, low smoke, flame retardant thermoplastic compound)
Jacket Colour	Orange
Outer Diameter	2x 2.0 ( $\pm$ 0.1mm)
Standard printing	"t d e – IVH02G50-2.0 LSZH" and sequential meter marking + Lot number
Applications	Patchcords/ Pigtaills

### Mechanical/ Thermal Characteristics

Weight	12 kg/km
Operational tensile load	210 N
Bending radius	15 x outer diameter
Operating temperature	-5°C to + 60°C
Fire resistance	Pass (EN 50266, IEC 60332-3)
Halogen content	Free (EN 50267, IEC 60754)
Smoke density	Low (EN 50268, IEC 61034-1/2)

### Special features

Characteristics	Fiber and aramid yarn free movable in the compound
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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%

## FO Duplex cord 50/125 $\mu$ OM2 LSOH 2,0mm

Core Non-Circularity	$\leq 5.0\%$
Coating Diameter	$245 \pm 5 \mu\text{m}$
Coating-Cladding Concentricity	$< 12 \mu\text{m}$

### 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 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 (SO): $\leq 0.101$ ps/(nm <sup>2</sup> *km)

## Product variants & accessories

Art.-No.	Description
L-IVH02E09-2.0	FO Duplex cord 9/125 $\mu$ G.652.D LSOH 2,0mm
L-IVH02G50-2.0	FO Duplex cord 50/125 $\mu$ OM2 LSOH 2,0mm
L-IVH02G50-OM3-2.0	FO Duplex cord 50/125 $\mu$ OM3 LSOH 2,0mm
L-IVH02G50-OM4-2.0	FO Duplex cord 50/125 $\mu$ OM4 LSOH 2,0mm
L-IVH02G62-2.0	FO Duplex cord 62,5/125 $\mu$ OM1 LSOH 2,0mm