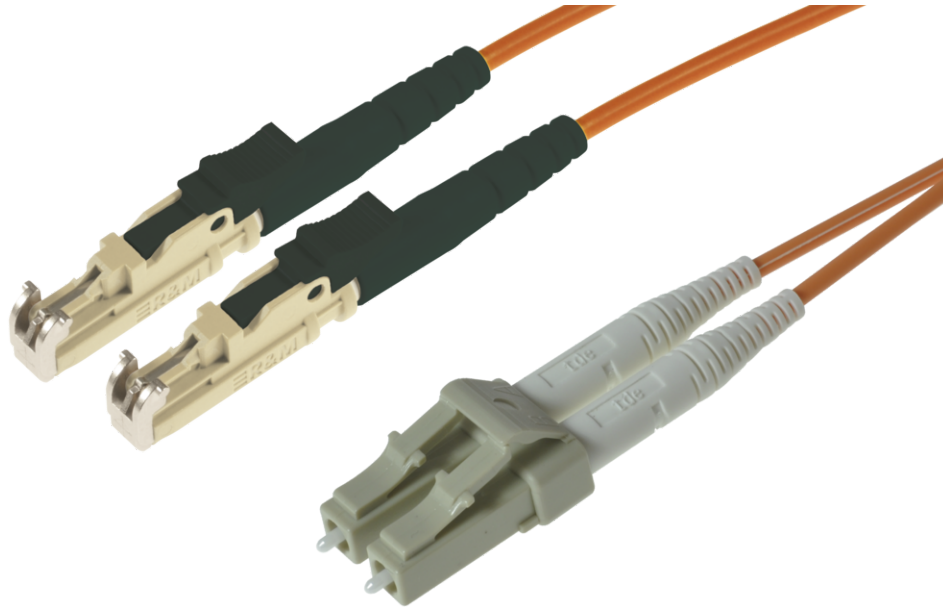


FO-Patch cord E2000/LC RDM/tde 50/125 $\mu$  OM2 Duplex LSOH Length: xxxxx



## tde - Fiber Optic Assemblies

The tde patch and trunk cables are manufactured completely at the German facility in Ohrte. Production processes at tde meet the latest standards, and the company has one of the most up-to-date fiber optic assembly houses in Europe. Fiber optic patch cables and trunk cables are manufactured in many different configurations using highly automated processes on two independent mass production lines. The range of products on offer encompasses the entire spectrum of connector types available on the market. Production capacity is around 100,000 fiber optic connectors per month, and this can be ramped up easily whenever required. To guarantee consistently top quality, only the best components from renowned vendors are used. All tde production staff have the necessary qualifications and education, and have been well trained in using specialist technical equipment such as laser cleavers and glue-dispensing robots.

Each cable application is subjected to a full test procedure comprising interferometer measurements, insertion loss and return loss measurements and a final visual inspection to ensure that only 100% error-free products are shipped to the customer.

Products made by tde perform at least internationally accepted quality standards and norms. The quality management system is ISO 9001, ISO 14001 and TL9000 certified.



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FO-Patch cord E2000/LC RDM/tde 50/125µ OM2 Duplex LSOH Length: xxxxx

## Technical Data

### FO Connectors

Type	E2000
Ferrule	Ceramic
Ferrule Hole	126 µ
Connector colour	Beige
Lever Colour	Black
Boot colour	Black
Manufacturer	RDM

### Optical performance

Fiber	Type	Wavelength	Insertion loss typ.	Insertion loss max.	Return loss min.
50/125µ OM2	E2000	850 nm	≤ 0.25 dB	0.45 dB	30 dB
62.5/125µ OM1	E2000	850 nm	≤ 0.25 dB	0.45 dB	

### FO Connectors

Connector Type	LC Unibody Duplex
Housing	Plastic, Beige
Ferrule	Zirconia Straight Split, Spring-loaded Axially
Ferrule Hole	126 µ
Mating Cycles	1.000
Operating Temperature	-40°C up to +75°C
Strain Relief to	100 N
Manufacturer	tde
Simplex / Duplex Clip	with Duplex Clip

### Optical performance

Fiber	Type	Wavelength	Insertion loss typ.	Insertion loss max.	Return loss min.
50/125µ OM2	LC	850 nm	≤ 0.25 dB	0.45 dB	30 dB
62.5/125µ OM1	LC	850 nm	≤ 0.25 dB	0.45 dB	

### FO Cables

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

## FO-Patch cord E2000/LC RDM/tde 50/125μ OM2 Duplex LSOH Length: xxxxx

### Cable construction

Type	IVH02G50 OM2
Tight buffer	2x 900μ coated fibers (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 – IVH02G50-2.4 LSZH" and sequential meter marking + Lot number

### Physical properties

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

### FO Fiber

Type	Corning 50/125μ OM2 multimode fiber
Manufacturer	Corning

### Optical Specifications

Bandwidth	500 at 850 nm / 500 at 1300 nm
Attenuation	At 850 nm max. ≤ 2.5 dB/km At 1300 nm max. ≤ 0.8 dB/km
Numerical Aperture	0.200 ± 0.015

### Dimensional Specifications

Core Diameter	50.0 ± 3.0 μm
Cladding Diameter	125.0 ± 2.0 μm
Core-Clad Concentricity	≤ 3.0 μm
Cladding Non-Circularity	< 2.0%
Core Non-Circularity	≤ 5.0%
Coating Diameter	245 ± 5 μm
Coating-Cladding Concentricity	< 12 μm

### 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	

FO-Patch cord E2000/LC RDM/tde 50/125 $\mu$  OM2 Duplex LSOH Length: xxxxx

## 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-E2A/LC09Dxxxxx	FO-Patch cord E2000 APC/LC PC RDM/tde 9/125 $\mu$ OS2 Duplex LSOH Length: xxxxx
L-E2A/LCA09Dxxxxx	FO-Patch cord E2000 APC/LC APC RDM/tde 9/125 $\mu$ OS2 Duplex LSOH Length: xxxxx
L-E2/LC50D3-xxxxx	FO-Patch cord E2000/LC RDM/tde 50/125 $\mu$ OM3 Duplex LSOH Length: xxxxx
L-E2/LC50D4-xxxxx	FO-Patch cord E2000/LC RDM/tde 50/125 $\mu$ OM4 Duplex LSOH Length: xxxxx
L-E2/LC50Dxxxxx	FO-Patch cord E2000/LC RDM/tde 50/125 $\mu$ OM2 Duplex LSOH Length: xxxxx