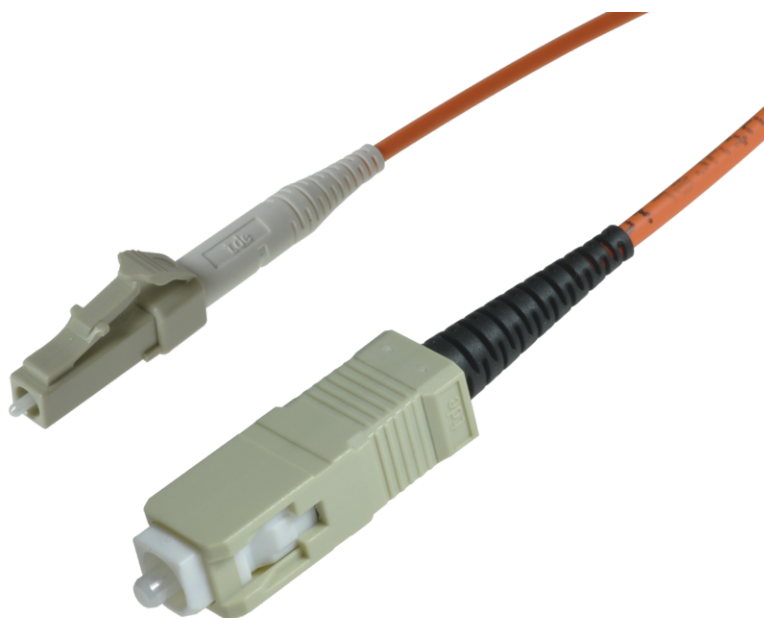


FO-Patch cord LC/SC tde 50/125µ OM2 Simplex LSOH Length: xxxxx



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.

**tde[®]** 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 8805 61 13
Fax.: +49 231 8805 61 15

info@tde.de | www.tde.de

FO-Patch cord LC/SC tde 50/125μ OM2 Simplex LSOH Length: xxxxx

Technical Data

FO Connectors

Connector Type	LC Unibody Simplex
Housing	Plastic, Beige
Ferrule	Zirkonia 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

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 Connectors

Connector Type	SC Simplex
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	150 N
Manufacturer	tde

Optical performance

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

FO Cables

Cable Data

Fiber Amount	1
Fiber Type	MM-OM2, 50/125μ, Corning
Secondary Coating	900μ, easy strippable
Strength Members	Aramid yarns
Outer Jacket	LSOH (Halogen free, low smoke, flame retardant thermoplastic compound)

FO-Patch cord LC/SC tde 50/125µ OM2 Simplex LSOH Length: xxxxx

Jacket Colour	Orange
Outer Diameter	2.0 (± 0.1mm)
Standard printing	"t d e – IVH01G50/125-2.0" and sequential meter marking + Lot number
Applications	Patchcords/ Pigtails

Mechanical/ Thermal Characteristics

Weight	6 kg/km
Operational tensile load	105 N
Bending radius	10 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
-----------------	--

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

FO-Patch cord LC/SC tde 50/125μ OM2 Simplex LSOH Length: xxxxx

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 ≥ 100 kpsi (0.7 GN/m²).
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 (λ ₀): 1300 nm ≤ λ ₀ ≤ 1320 nm Zero Dispersion Slope (S ₀): ≤ 0.101 ps/(nm²*km)

Product variants & accessories

Art.-No.	Description
L-LC/SC09Sxxxxx	FO-Patch cord LC/SC tde 9/125μ OS2 Simplex LSOH Length: xxxxx
L-LC/SC50S3-xxxxx	FO-Patch cord LC/SC tde 50/125μ OM3 Simplex LSOH Length: xxxxx
L-LC/SC50S4-xxxxx	FO-Patch cord LC/SC tde 50/125μ OM4 Simplex LSOH Length: xxxxx
L-LC/SC50Sxxxxx	FO-Patch cord LC/SC tde 50/125μ OM2 Simplex LSOH Length: xxxxx
L-LC/SC62Sxxxxx	FO-Patch cord LC/SC tde 62/125μ OM1 Simplex LSOH Length: xxxxx