

# FOC-C-LCD-SM - FO connectors

1089520

<https://www.phoenixcontact.com/us/products/1089520>



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LC duplex single mode connector for wire or cable assembly



## Product description

LC duplex connector, for assembling onto wires or cables with a diameter of 2.0 mm or 3.0 mm, single mode 9/125 µm. The reusable connector is particularly suitable for quick and easy field connection, as there is no need for bonding and polishing.

## Your advantages

- Suitable for quick and easy field assembly or repair
- No bonding or polishing
- Reusable connectors
- A real alternative to splicing
- Optimum attenuation values with easy assembly
- Long-term durability thanks to the latest index matching gel

## Commercial data

Item number	1089520
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB16
Product key	ABNIAC
GTIN	4055626894225
Weight per piece (including packing)	9.5 g
Weight per piece (excluding packing)	9.5 g
Customs tariff number	85367000
Country of origin	DE

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## Technical data

### Product properties

Product type	Fiber optic connector (cable side)
Type	LC
Number of positions	2
Connection profile	LC duplex plug
Number of slots	2
Cable outlet	straight

### Electrical properties

Attenuation	$\geq 0.5 \text{ dB } 900 \mu\text{m}$ (95%, <0.7 dB for cable connection)
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### Connection data

Connection method	mechanical splice
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### Dimensions

Mechanical characteristics	
Ferrule diameter	1.25 mm

### Material specifications

Material	Plastic
Ferrule material	Zirconia ceramics
Housing material	PBT

### Cable/line

Cable type	Single-mode fiberglass
Cable type	for all common cable types
Cable structure	STB and TB
External cable diameter	0.25 mm up to 3 mm (for the wire and cable connection) 2 mm ... 3 mm (Core assembly)
External sheath, color	blue
Wire diameter	2 mm ... 3 mm
Individual wire diameter	900 $\mu\text{m}$ (for pigtails 0.9 mm, for cable connection 2 mm and 3 mm)
Tensile strength short-term/long-term	50 N
Halogen-free	yes
Flame resistance	yes

### FO cable

Number of fibers	2
Fiber	Fiberglass
Fiber type	Single mode 9/125 $\mu\text{m}$
Transmission medium	FO

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## Mechanical properties

Tensile strength short-term/long-term	50 N
Mechanical data	
Insertion/withdrawal cycles	≥ 500 (according to IEC 61300-2-2)
Extraction force per signal contact	≥ 50 N (Cable connection in accordance with IEC 61300-2-4)

## Characteristics

Attenuation	≥ 0.5 dB 900 µm (95%, <0.7 dB for cable connection)
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## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (with cable connection only at room temperature)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Ambient temperature (assembly)	0 °C ... 50 °C

## Standards and regulations

Flame resistance	yes
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## Mounting

cable layer type	Indoors
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## Classifications

### ECLASS

ECLASS-15.0	19170122
ECLASS-13.0	19170122

### ETIM

ETIM 9.0	EC001122
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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