

# FOC-C-SCD-SM - FO connectors

1089517

<https://www.phoenixcontact.com/us/products/1089517>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

SC duplex single-mode connector for wire or cable assembly



SC duplex connector IP20

## Product description

SC duplex connector, for assembling onto wires or cables with a diameter of 2.0 mm or 3.0 mm, single mode 9/125  $\mu\text{m}$ . 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	1089517
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNIAC
GTIN	4055626894218
Weight per piece (including packing)	13.4 g
Weight per piece (excluding packing)	13.4 g
Country of origin	DE

1089517

<https://www.phoenixcontact.com/us/products/1089517>

## Technical data

### Product properties

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

### Electrical properties

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

### Connection data

Connection method	mechanical splice
-------------------	-------------------

### Dimensions

#### Mechanical characteristics

Ferrule diameter	2.50 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

1089517

<https://www.phoenixcontact.com/us/products/1089517>

## 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)
-------------	---

## 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
------------------	-----

## Mounting

cable layer type	Indoors
------------------	---------

# FOC-C-SCD-SM - FO connectors



1089517

<https://www.phoenixcontact.com/us/products/1089517>

## Classifications

### ECLASS

ECLASS-13.0	19170122
ECLASS-15.0	19170122

### ETIM

ETIM 10.0	EC001122
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# FOC-C-SCD-SM - FO connectors



1089517

<https://www.phoenixcontact.com/us/products/1089517>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)