

# FOC-C-SCD-SM - FO connectors

1089517

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

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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 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                          | 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            |

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## 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)<br>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) |
|-------------|---|

## 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 |
|------------------|---------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170122 |
| ECLASS-15.0 | 19170122 |

### ETIM

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

### UNSPSC

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

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## 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% |
|-------------------------------------|----------------------------|

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