

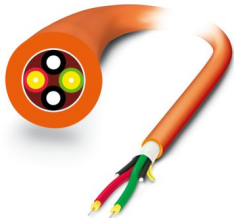
# FOC-HCS-RUGGED-1014/... - FO patch cable



1402191

<https://www.phoenixcontact.com/us/products/1402191>

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rugged PCF installation cable for inner areas with highly tear-proof aramid strain-relief elements. Individual elements made from highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

## Your advantages

- High degree of reliability, thanks to the exceptional quality
- Reliable even in EMC-sensitive applications
- Fast data transmission for demanding applications
- Halogen-free, ozone, and UV resistant
- Robust polyurethane (PUR) outer sheath
- 2.9 mm individual wires made from highly flexible FRNC material
- Rugged installation cable for indoor use
- Highly tear-resistant aramid strain relief elements

## Commercial data

|                        |                                |
|------------------------|--------------------------------|
| Item number            | 1402191                        |
| Packing unit           | 1 pc                           |
| Minimum order quantity | 1 pc                           |
| Note                   | Made to order (non-returnable) |
| Sales key              | AB50                           |
| Product key            | ABNIBB                         |
| Customs tariff number  | 85447000                       |
| Country of origin      | DE                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Application         | Indoor installation     |
| Number of positions | 2                       |

### Electrical properties

|                     |           |
|---------------------|-----------|
| Transmission medium | PCF fiber |
| Transmission speed  | 100 Mbps  |
| Transmission speed  | 100 Mbps  |

### Dimensions

#### External dimensions

|                        |        |
|------------------------|--------|
| External diameter min. | 7.5 mm |
| External diameter max. | 8.5 mm |

### Material specifications

|                        |     |
|------------------------|-----|
| Outer sheath, material | PUR |
|------------------------|-----|

### Connector

#### Connection 1

|      |              |
|------|--------------|
| Type | configurable |
|------|--------------|

#### Connection 2

|      |              |
|------|--------------|
| Type | configurable |
|------|--------------|

### Cable/line

|                                   |  |
|-----------------------------------|--|
| Cable weight                      | 54 kg/km                                 |
| External cable diameter           | 8 mm                                     |
| Outer sheath, material            | PUR                                      |
| Single wire, number of litz wires | 2  |
| Single wire, material             | FRNC material                            |
| Individual wire diameter          | 2.9 mm ±0.1 mm                           |
| Numerical aperture                | 0.37                                     |
| Tensile strength                  | 1000 N (Short-term)<br>200 N (permanent) |
| Impact strength                   | 2 Nm / 10 x                              |
| Bending radius, single element    | 30 mm (Short-term)<br>30 mm (Short-term) |
| Bending radius, entire cable      | 60 mm (Short-term)<br>60 mm (Short-term) |
| 660 nm                            | 10 dB/km                                 |

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|                   |  |
|-------------------|--|
| 850 nm            | 8 dB/km                                    |
| Halogen-free      | According to IEC 60754-2                   |
| Resistance to oil | IRM 902 No.2, 100 °C, DIN VDE 0473-811-2-1 |
| Behavior in fire  | 1.72 MJ/m (0.48 kWh/m)                     |

## FO cable

|                     |   |
|---------------------|---|
| Number of fibers    | 2   |
| Fiber               | Polymer fiber/fiberglass                      |
| Fiber type          | Multimode, 200/230 µm                         |
| Cable, attenuation  | 2.5 dB/km (at 850 nm), 0.7 dB/km (at 1300 nm) |
| Transmission medium | Multi-mode fiberglass                         |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection                    | IP67/IP20  |
| Impact strength                         | 2 Nm / 10 x  |
| Ambient temperature (operation)         | -40 °C ... 70 °C<br>-20 °C ... 70 °C (with quick mounting connector) |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C   |
| Ambient temperature (installation)      | -20 °C ... 60 °C   |
| Resistance to UV radiation              | 500 hours, in accordance with DIN EN ISO 4892-2                      |

## Mounting

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

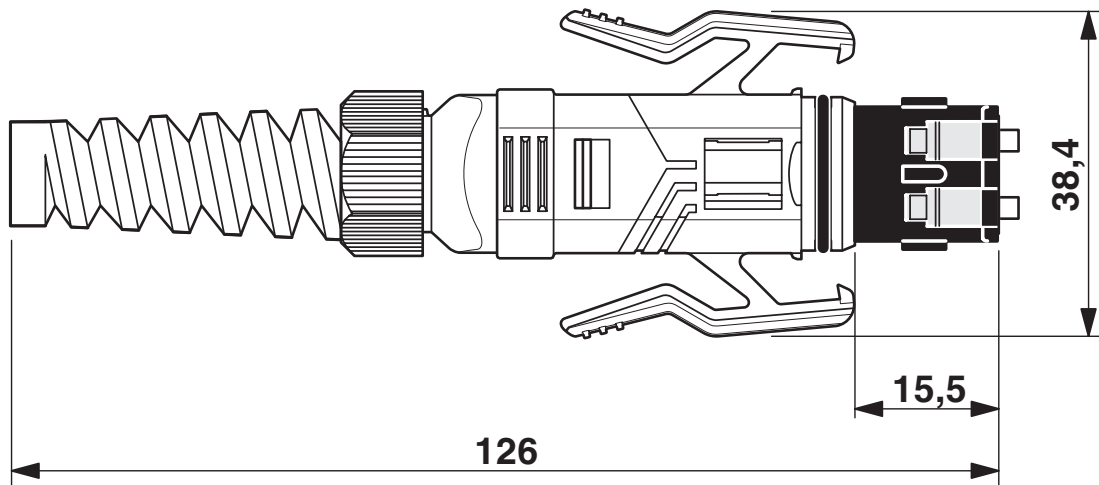
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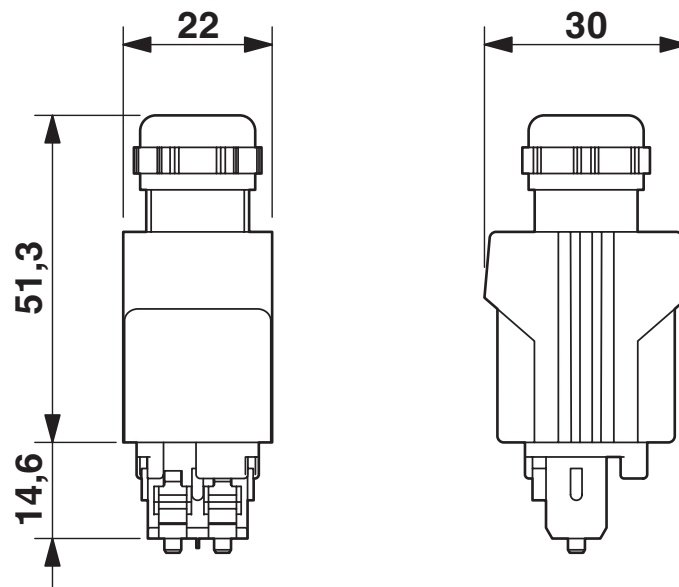
## Drawings

Dimensional drawing



SC-RJ connector IP67

Dimensional drawing



Push-Pull SC-RJ connector IP65/67

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061803 |
| ECLASS-15.0 | 27061803 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000034 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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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