

# FOC-ST:PA-ST:PA-OM1:D01/2 - FO patch cable



1146509

<https://www.phoenixcontact.com/us/products/1146509>

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.

Multi-mode OM1 duplex jumper, ST-ST, UPC polishing, length 2 m



## Your advantages

- Comprehensively tested according to IEC 61753-122-2 and IEC 61753-1 Cat. C
- Temperature change test in accordance with IEC 61300-2-1
- Vibration test according to IEC 61300-2-1
- Tensile strength of the cable connection according to IEC 61300-2-5
- Multimode patch cable with outstanding optical and mechanical properties for indoor installation
- Ideal for use in distributor systems and for connecting termination devices
- Fire protection with LSZH sheath and UL 94 V0 components
- Interferometer tests at every stage of the certification process
- Satisfies optical and mechanical industry standards
- Connector with UPC polishing for optimum attenuation values

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1146509       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB16          |
| Product key                          | ABNIBC        |
| GTIN                                 | 4063151137250 |
| Weight per piece (including packing) | 37.7 g        |
| Weight per piece (excluding packing) | 21 g          |
| Customs tariff number                | 85447000      |
| Country of origin                    | CN            |

1146509

<https://www.phoenixcontact.com/us/products/1146509>

## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Number of positions | 2                       |
| Connection profile  | ST/UPC-ST/UPC connector |

### Electrical properties

|                     |                       |
|---------------------|-----------------------|
| Transmission medium | Multi-mode fiberglass |
| Transmission speed  | 1 Gbps                |
| Transmission speed  | 1 Gbps                |

### Mechanical properties

|                                       |      |
|---------------------------------------|------|
| Tensile strength short-term/long-term | 70 N |
|---------------------------------------|------|

#### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

### Material specifications

|  |      |
|--|------|
| Flammability rating according to UL 94 | V0   |
| Outer sheath, material                 | LSZH |

### Dimensions

#### External dimensions

|                        |      |
|------------------------|------|
| External diameter min. | 2 mm |
| External diameter max. | 4 mm |

### Connector

#### Connection 1

|                      |            |
|----------------------|------------|
| Type                 | Plug 2x ST |
| Degree of protection | IP20       |

#### Connection 2

|                      |            |
|----------------------|------------|
| Type                 | Plug 2x ST |
| Degree of protection | IP20       |

### Cable/line

|                         |                      |
|-------------------------|----------------------|
| Cable length            | 2.00 m               |
| Cable weight            | 5.30 kg/km           |
| Cable type              | Multimode fiberglass |
| Cable type              | Zip cord             |
| Cable abbreviation      | I-V(ZN)H             |
| Cable structure         | Figure 8 cable       |
| External cable diameter | 2.00 mm              |

# FOC-ST:PA-ST:PA-OM1:D01/2 - FO patch cable



1146509

<https://www.phoenixcontact.com/us/products/1146509>

|   |   |
|---|---|
| Outer sheath, material                        | LSZH  |
| External sheath, color                        | orange  |
| Single wire, number of litz wires             | 2   |
| Individual wire diameter                      | 900 µm  |
| Bending radius, long-term                     | 50 mm   |
| Bending radius short term/long term           | 30 mm   |
| Smallest bending radius, fixed installation   | 30 mm   |
| Smallest bending radius, movable installation | 30 mm   |
| Tensile strength short-term/long-term         | 70 N  |
| Lateral pressure, long-term                   | 100.00 N/cm                                     |
| Halogen-free                                  | complying with IEC 60754-1/2                    |
| Resistance to oil                             | Not resistant to oil, gasoline, acids, and lyes |
| Concentration of fumes                        | in accordance with IEC 61034                    |
| Flame resistance                              | yes   |
| Behavior in fire                              | No corrosive or toxic fumes                     |

## FO cable

|                     |  |
|---------------------|--|
| Number of fibers    | 2  |
| Fiber               | Fiberglass                               |
| Fiber type          | Multimode fiberglass, 62.5/125 µm        |
| Cable, attenuation  | 3.5 dB/km (850 nm) , 1.5 dB/km (1300 nm) |
| Attenuation         | ≤ 3.5 dB/km (with 850 nm)                |
| Transmission medium | Multi-mode fiberglass                    |

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection                    | IP20  |
| Ambient temperature (operation)         | -20 °C ... 60 °C                                |
| Ambient temperature (storage/transport) | -20 °C ... 60 °C                                |
| Ambient temperature (assembly)          | -20 °C ... 60 °C                                |
| Ambient temperature (installation)      | -20 °C ... 60 °C                                |
| Resistance to oil                       | Not resistant to oil, gasoline, acids, and lyes |

## Standards and regulations

|                          |   |
|--------------------------|---|
| Behavior in fire         | No corrosive or toxic fumes                     |
| Flame resistance         | yes   |
| Resistance to oil        | Not resistant to oil, gasoline, acids, and lyes |
| Concentration of fumes   | in accordance with IEC 61034                    |
| Standards/specifications | IEC 61300-3-4                                   |
|                          | RL: IEC 61300-3-6                               |

1146509

<https://www.phoenixcontact.com/us/products/1146509>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061003 |
| ECLASS-15.0 | 27061003 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002700 |
|-----------|----------|

### UNSPSC

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

1146509

<https://www.phoenixcontact.com/us/products/1146509>

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

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 5.972 kg CO2e |
|---------|---------------|

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)