

# FOC-LC:PA-LC:PA-OS2:D01/10 - FO patch cable

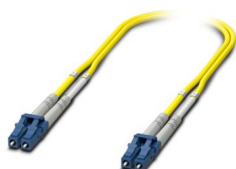


1146544

<https://www.phoenixcontact.com/us/products/1146544>

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Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 10 m



## Your advantages

- Glass fiber optical, 8-shaped FO cable jumper
- Made of halogen-free flame-retardant material, RoHS compliant
- Excellent mechanical and optical properties
- Indoor use, suitable for FO distribution and termination devices
- Made of halogen-free flame-retardant material, RoHS compliant
- All components satisfy UL 94, V0
- Satisfies industry standards for optical and mechanical properties
- Insertion loss  $\leq 0.5$  dB (varies depending on the condition)
- Connector with UPC polishing for optimum attenuation values

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1146544       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB16          |
| Product key                          | ABNIBC        |
| GTIN                                 | 4063151138325 |
| Weight per piece (including packing) | 81 g          |
| Weight per piece (excluding packing) | 81 g          |
| Customs tariff number                | 85447000      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

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

### Electrical properties

|                     |                        |
|---------------------|------------------------|
| Transmission medium | Single-mode fiberglass |
| Transmission speed  | 100 Gbps               |
| Transmission speed  | 100 GBit/s             |

### 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 LC duplex |
| Degree of protection | IP20           |

#### Connection 2

|                      |                |
|----------------------|----------------|
| Type                 | Plug LC duplex |
| Degree of protection | IP20           |

### Cable/line

|                         |                        |
|-------------------------|------------------------|
| Cable length            | 10.00 m                |
| Cable weight            | 5.30 kg/km             |
| Cable type              | Single-mode fiberglass |
| Cable type              | Zip cord               |
| Cable abbreviation      | I-V(ZN)H               |
| Cable structure         | Figure 8 cable         |
| External cable diameter | 2.00 mm                |

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|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Outer sheath, material                        | LSZH                                            |
| External sheath, color                        | yellow                                          |
| 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 | 16 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          | Single mode fiberglass, 9/125 µm         |
| Cable, attenuation  | 0.5 dB/km (1310 nm), 0.4 dB/km (1550 nm) |
| Attenuation         | ≤ 0.5 dB/km ()                           |
| Return Loss         | ≥ 50 dB                                  |
| Transmission medium | Single-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                               |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002607 |
|----------|----------|

### 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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