

# FOC-FDX20-PP-LCQ6-OSP-PT9 - Splice box



1019707

<https://www.phoenixcontact.com/us/products/1019707>

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DIN rail splice box 12x LC duplex, including pigtails and splice holder

Splice box, design: Rail-mountable module, degree of protection: IP20, material: Metal, connection method: Splicing, cable outlet: above and below, housing size: 1, color: gray, Ethernet

## Product description

FDX 20 series DIN rail splice box, equipped with 6x LC quad coupling, fully assembled and ready for splicing with preassembled 900 µm pigtails (OS2) and splice holder for separately available shrink and crimp splicing protection, on a patented splice comb made from powder-coated sheet steel. Cable entry possible via cable gland from above or below. Housing (2-part), prepared for DIN rail mounting through the rear-side adapter. The adapter can also be mounted on the side.

### Scope of supply:

DIN rail housing with integrated splice comb (mounted), assembled with 6x LC quad coupling, 24x pigtail (OS2), 2x splice holder, 1x cable gland (M20x1.5)

## Your advantages

- Intuitive front-panel operation and clear control cabinet layout thanks to uniform design
- Flexible DIN rail mounting possible in six positioning directions
- Suitable for industrial applications
- Continuously reliable data connection, thanks to extensively tested components
- Snap-on mounting on standard DIN rails NS 35/7.5 or NS 35/15
- Perfectly sized and patented pigtail tray for convenient splicing and compact bending radii.
- Particularly suitable for fusion splicing
- For easy field connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1019707       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB15          |
| Product key                          | ABNGAA        |
| GTIN                                 | 4055626701073 |
| Weight per piece (including packing) | 718 g         |
| Weight per piece (excluding packing) | 636.057 g     |
| Customs tariff number                | 85367000      |
| Country of origin                    | DE            |

1019707

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Order information: | In addition, shrink splice protection (Item No.: 1019676) or crimp splice protection (Item No.: 1019678) must be ordered separately. |
|--------------------|--|

### Product properties

|                              |                         |
|------------------------------|-------------------------|
| Product type                 | Network distributor box |
| Housing type                 | DIN rail adapter        |
| Series                       | FDX 20 series           |
| Type                         | Rail-mountable module   |
| Sensor type                  | Ethernet                |
| Connection profile           | LC-Duplex               |
| No. of cable outlets         | 2                       |
| No. of conductors            | 24                      |
| Number of module slots       | 12                      |
| Number of slots              | 24                      |
| Type of the screw connection | M20 x 1.5               |
| Protective cover             | yes                     |
| Cable outlet                 | above and below         |

### Electrical properties

|                     |          |
|---------------------|----------|
| Attenuation         | ≤ 0.3 dB |
| Transmission medium | FO       |

### Connection data

#### Connection technology

|                   |          |
|-------------------|----------|
| Connection method | Splicing |
|-------------------|----------|

### Dimensions

|        |        |
|--------|--------|
| Width  | 40 mm  |
| Height | 130 mm |
| Depth  | 115 mm |

#### Housing

|               |       |
|---------------|-------|
| Housing width | 40 mm |
|---------------|-------|

#### Mechanical characteristics

|                  |         |
|------------------|---------|
| Ferrule diameter | 1.25 mm |
|------------------|---------|

### Material specifications

|  |                   |
|--|-------------------|
| Color                                  | gray              |
| Flammability rating according to UL 94 | V0                |
| Ferrule material                       | Zirconia ceramics |

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|                          |                     |
|--------------------------|---------------------|
| Housing material         | Metal               |
| Housing surface material | Powder-coated, gray |

## Cable/line

|                                |   |
|--------------------------------|---|
| Cable type                     | Single-mode fiberglass                                |
| Cable type                     | 900 µm  |
| Cable structure                | semi-loose compact wires (STB)                        |
| External cable diameter        | 6 mm ... 12 mm  |
| External cable diameter        | 6 mm ... 12 mm  |
| Wire diameter incl. insulation | 900 µm  |
| Individual wire diameter       | 900 µm (250/900 µm)                                   |
| Single wire, color             | Assignment color-coded in accordance with IEC 60794-2 |
| Halogen-free                   | yes   |
| Resistance to oil              | no  |
| Flame resistance               | yes   |

## FO cable

|                     |   |
|---------------------|---|
| Number of fibers    | 24  |
| Fiber               | GOF   |
| Fiber type          | Single-mode fiberglass, resistant to bending G.657 A2 |
| Attenuation         | ≤ 0.3 dB (at 1310 nm / 1550 nm)                       |
| Return Loss         | ≥ 50 dB (at 1310 nm / 1550 nm)                        |
| Transmission medium | FO  |

## Mechanical properties

### Mechanical data

|                              |           |
|------------------------------|-----------|
| Type of the screw connection | M20 x 1.5 |
| Insertion/withdrawal cycles  | ≥ 500     |

## Characteristics

|             |          |
|-------------|----------|
| Attenuation | ≤ 0.3 dB |
|-------------|----------|

## Environmental and real-life conditions

### Ambient conditions

|   |                               |
|---|-------------------------------|
| Degree of protection                    | IP20 (according to IEC 60529) |
|   | IP20                          |
| Ambient temperature (operation)         | -40 °C ... 85 °C              |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C              |
| Ambient temperature (assembly)          | 0 °C ... 50 °C                |
| Resistance to oil                       | no                            |

## Standards and regulations

|                   |     |
|-------------------|-----|
| Flame resistance  | yes |
| Resistance to oil | no  |

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## Mounting

|               |  |
|---------------|--|
| Mounting type | DIN rail mounting                                  |
| Assembly note | Option for flexible replugging of DIN rail adapter |

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## Approvals

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**UL Listed**

Approval ID: E335024-20250729



**cUL Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170113 |
| ECLASS-15.0 | 19170113 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002699 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43223300 |
|-------------|----------|

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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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