

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



1019707

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

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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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1019707             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AB15                |
| Product key                          | ABNGAA              |
| Catalog page                         | Page 381 (C-2-2019) |
| GTIN                                 | 4055626701073       |
| Weight per piece (including packing) | 761.2 g             |
| Weight per piece (excluding packing) | 577 g               |
| Customs tariff number                | 85367000            |
| Country of origin                    | DE                  |

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         |

Data management status

|                  |    |
|------------------|----|
| Article revision | 10 |
|------------------|----|

Electrical properties

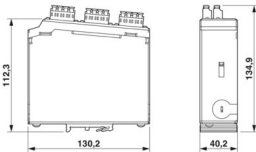
|                     |          |
|---------------------|----------|
| Attenuation         | ≤ 0.3 dB |
| Transmission medium | FO       |

Connection data

Connection technology

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

Dimensions

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

Housing

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|               |       |
|---------------|-------|
| 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   |
| 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                          |

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|                                         |                  |
|-----------------------------------------|------------------|
| 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  |

## Mounting

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

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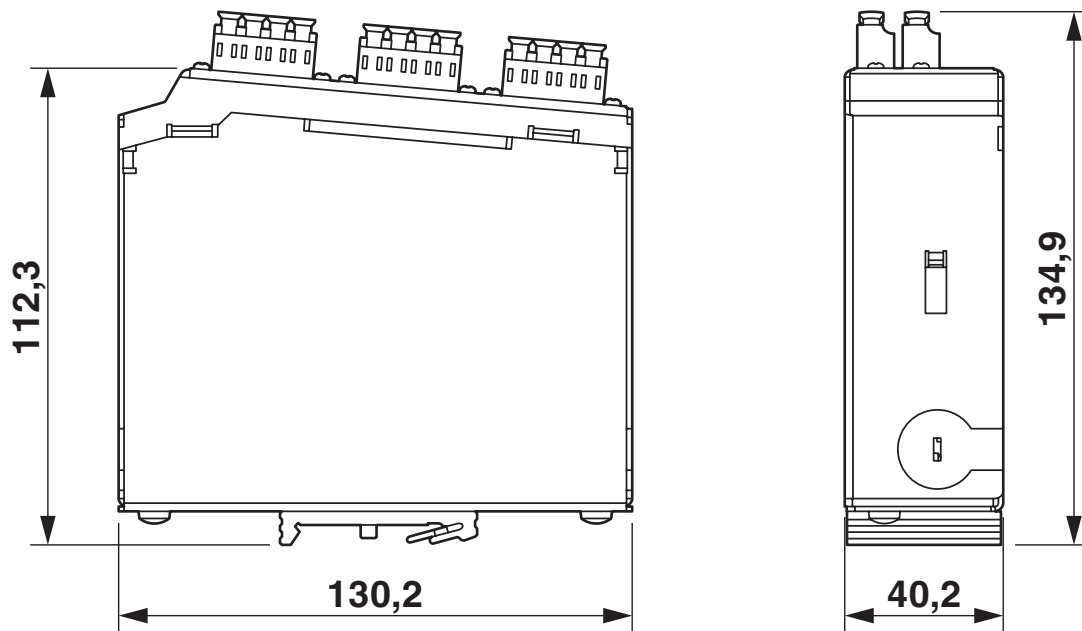
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## Drawings

Dimensional drawing



DIN rail splice box 6x LC quad OS2, fully mounted ready to splice

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 19170113 |
| ECLASS-12.0 | 19170113 |
| ECLASS-13.0 | 19170113 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001130 |
|----------|----------|

### 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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## Mandatory accessories

### FOC-SHRINKSPLICE-PROTECT - Shrink splice protection

1019676

<https://www.phoenixcontact.com/us/products/1019676>



Shrink splice protection, design: Straight, degree of protection: IP20, cable outlet: above and below, color: transparent

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### FOC-CRIMPSPLICE-PROTECT - Crimp splice protection

1019678

<https://www.phoenixcontact.com/us/products/1019678>



Crimp splice protection, design: Straight, degree of protection: IP20, connection method: Crimp connection, cable outlet: above and below, color: Bare metallic

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## Accessories

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



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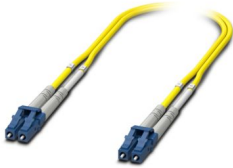
<https://www.phoenixcontact.com/us/products/1019707>

## FOC-LC:PA-LC:PA-OS2:D01/1 - FO patch cable

1115636

<https://www.phoenixcontact.com/us/products/1115636>

Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 1 m



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## FOC-LC:PA-ST:PA-OS2:D01/1 - FO patch cable

1115596

<https://www.phoenixcontact.com/us/products/1115596>

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 1 m



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



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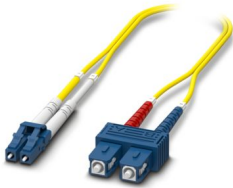
<https://www.phoenixcontact.com/us/products/1019707>

## FOC-LC:PA-SC:PA-OS2:D01/1 - FO patch cable

1115618

<https://www.phoenixcontact.com/us/products/1115618>

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 1 m



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## FOC-LC:PA-LC:PA-OS2:D01/2 - FO patch cable

1115629

<https://www.phoenixcontact.com/us/products/1115629>

Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 2 m



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## FOC-LC:PA-ST:PA-OS2:D01/2 - FO patch cable

1115595

<https://www.phoenixcontact.com/us/products/1115595>

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 2 m



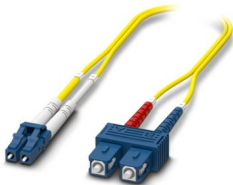
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## FOC-LC:PA-SC:PA-OS2:D01/2 - FO patch cable

1115617

<https://www.phoenixcontact.com/us/products/1115617>

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 2 m



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## FOC-LC:PA-LC:PA-OS2:D01/5 - FO patch cable

1115626

<https://www.phoenixcontact.com/us/products/1115626>

Single-mode OS2 duplex jumper, LC-LC, UPC polishing, length 5 m



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## FOC-LC:PA-ST:PA-OS2:D01/5 - FO patch cable

1115592

<https://www.phoenixcontact.com/us/products/1115592>

Single-mode OS2 duplex jumper, LC-ST, UPC polishing, length 5 m



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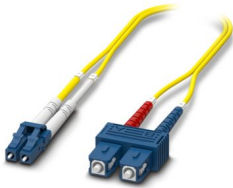
<https://www.phoenixcontact.com/us/products/1019707>

## FOC-LC:PA-SC:PA-OS2:D01/5 - FO patch cable

1115615

<https://www.phoenixcontact.com/us/products/1115615>

Single-mode OS2 duplex jumper, LC-SC, UPC polishing, length 5 m



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## FOC-OE-OE-GL-U-OS2-24/... - FO cable

1286210

<https://www.phoenixcontact.com/us/products/1286210>



GOF universal cable, 24-wire, loose tube cable for fixed installation, non-metallic rodent protection, can be easily stripped, UV-resistant, high mechanical and thermal stability, low smoke, halogen-free and self-extinguishing, improved tread resistance, longitudinally and transversely watertight

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## FOC-TOOL-FERRULECLEANER-1.25 - FO accessories

1407032

<https://www.phoenixcontact.com/us/products/1407032>

Ferrule cleaner, 1.25 mm, for LC, approx. 500 cleaning cycles



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## FOC-TOOL-STICKCLEANER-1.25 - FO accessories

1407000

<https://www.phoenixcontact.com/us/products/1407000>

Stick cleaner for couplings and plug end faces, 1.25 mm (LC), Pcs. / Pkt.: 10



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## A-INSP-M20-68N-P-LG - Screw plug

1424519

<https://www.phoenixcontact.com/us/products/1424519>

Screw plug, material for screw connection: PA, connecting thread: M20 x 1.5, color: lightgray RAL 7035, with O-ring



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## WP-CN PA M20 - Counter nut

3241134

<https://www.phoenixcontact.com/us/products/3241134>

Counter nut, for threads M20, color: gray



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## SF-PH 1-80 - Screwdriver

1212559

<https://www.phoenixcontact.com/us/products/1212559>



Screwdriver, PH crosshead (lasered), uninsulated, size: PH 1 x 80, 2-component grip, with non-slip grip

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## SF-SL 1,0X5,5-150 - Screwdriver

1212552

<https://www.phoenixcontact.com/us/products/1212552>



Screwdriver, bladed (lasered), size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

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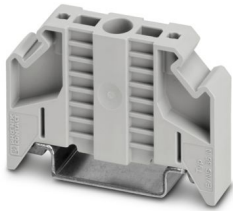
<https://www.phoenixcontact.com/us/products/1019707>

## E/NS 35 N - End bracket

0800886

<https://www.phoenixcontact.com/us/products/0800886>

End clamp, width: 9.5 mm, color: gray



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## NBC-PP-G1PGY - DIN rail adapter

1041740

<https://www.phoenixcontact.com/us/products/1041740>

DIN rail adapter, design: Headers with shielding, degree of protection: IP20, material: PC-GF10, connection method: Quick connection, without assembled modules



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## FL DIN RA - DIN rail adapter

2891053

<https://www.phoenixcontact.com/us/products/2891053>

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



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## G-INS-M20-S68N-PNES-GY - Cable gland

1411125

<https://www.phoenixcontact.com/us/products/1411125>



Cable gland, material for screw connection: PA, application: Standard, external cable diameter 6 mm ... 12 mm, shielding: no, connecting thread: M20 x 1.5, color: silver-gray RAL 7001

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## TML (104X10)R - Marker strip

0801835

<https://www.phoenixcontact.com/us/products/0801835>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 10 mm, Number of individual labels: 1500

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## TML (EX9,5)R TR - Marker strip

0816634

<https://www.phoenixcontact.com/us/products/0816634>



Marker strip, Roll, transparent, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 40000 x 9.5 mm, Number of individual labels: 1

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## EMLS (70X32)R SR - Safety label with special adhesive

0800346

<https://www.phoenixcontact.com/us/products/0800346>



Safety label with special adhesive, Roll, silver, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 70 x 32 mm, Number of individual labels: 500

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## EML-HA (76X51)R - Label for rough surfaces

0830609

<https://www.phoenixcontact.com/us/products/0830609>



Label for rough surfaces, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 76 x 51 mm, Number of individual labels: 1000

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## PML-W100 (25X25)R - Warning label

0830429

<https://www.phoenixcontact.com/us/products/0830429>



Warning label, Roll, yellow/black, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: adhesive, diameter: 0 mm, lettering field size: 25 x 25 mm, Number of individual labels: 500

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## LS-EMLP (60X15) WH - Device marker

0831696

<https://www.phoenixcontact.com/us/products/0831696>



Device marker, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 60 x 15 mm, Number of individual labels: 20

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## WML-RFID/HF 14 (25X19)R - Cable marker

0803386

<https://www.phoenixcontact.com/us/products/0803386>



Cable marker label with RFID-HF transponder, roll, white, unmarked, can be printed with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, mounting type: adhesive, min. cable diameter: 9 mm, max. cable diameter: 14 mm, lettering field size: 25 x 19 mm

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