

# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



1019683

<https://www.phoenixcontact.com/us/products/1019683>

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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, with 6x ST duplex coupling, fully assembled and ready for splicing with pre-assembled 900 µm pigtails (OM2) and splice holder (for separately sold shrink and crimp splice 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 (this can also be mounted on the side).

### Scope of supply:

DIN rail housing with integrated splice comb (mounted), assembled with 6x ST duplex coupling, 12x pigtail (OM2), 1x 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                          | 1019683             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AB15                |
| Product key                          | ABNGAA              |
| Catalog page                         | Page 381 (C-2-2019) |
| GTIN                                 | 4055626701141       |
| Weight per piece (including packing) | 819.9 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           | ST-Duplex               |
| No. of cable outlets         | 2                       |
| No. of conductors            | 12                      |
| Number of module slots       | 6                       |
| Number of slots              | 12                      |
| Type of the screw connection | M20 x 1.5               |
| Protective cover             | yes                     |
| Cable outlet                 | above and below         |

Data management status

|                  |    |
|------------------|----|
| Article revision | 09 |
|------------------|----|

Electrical properties

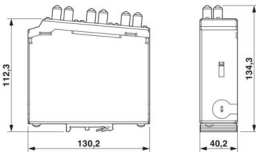
|                     |          |
|---------------------|----------|
| Attenuation         | ≤ 0.3 dB |
| Transmission medium | FO       |

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 | 2.50 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                     | Multimode 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    | 12                              |
| Fiber               | GOF                             |
| Fiber type          | Multi-mode 50/125 µm fiberglass |
| Attenuation         | ≤ 0.3 dB (at 850 nm / 1300 nm)  |
| Return Loss         | ≥ 35 dB (at 850 nm / 1300 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)         | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Ambient temperature (assembly)          | 0 °C ... 50 °C   |
| Resistance to UV radiation              | yes              |
| 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 |

# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box

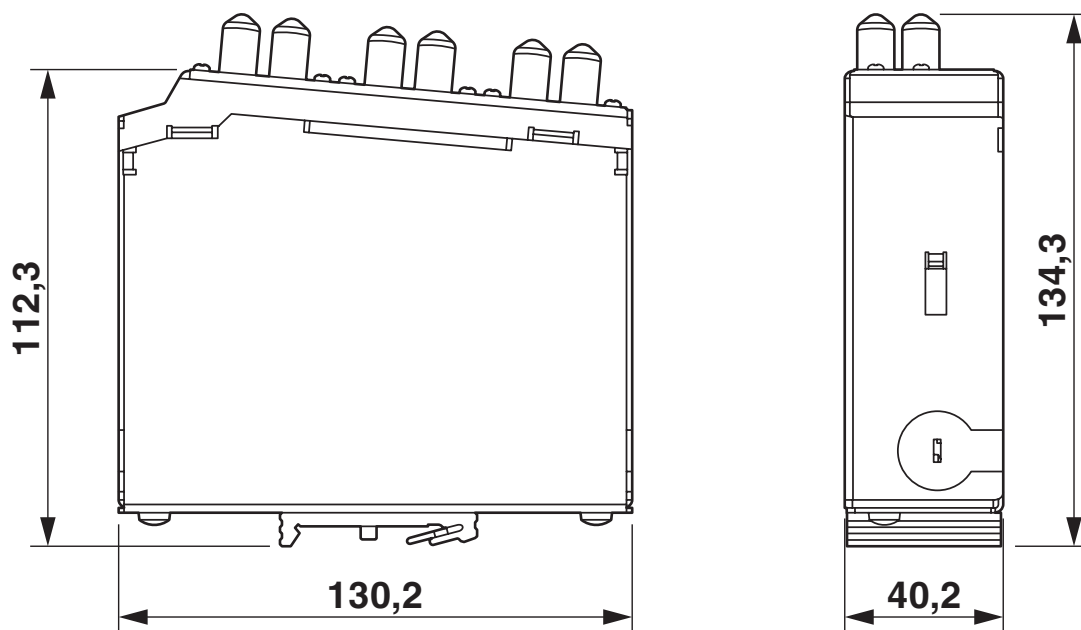
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## Drawings

Dimensional drawing



DIN rail splice box 6x ST duplex OM2, 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 |
|-------------|----------|

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

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## FOC-ST:PA-ST:PA-OM2:D01/1 - FO patch cable

1115560

<https://www.phoenixcontact.com/us/products/1115560>

Multi-mode OM2 duplex jumper, ST-ST, UPC polishing, length 1 m



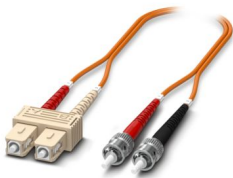
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## FOC-ST:PA-SC:PA-OM2:D01/1 - FO patch cable

1115574

<https://www.phoenixcontact.com/us/products/1115574>

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m



# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box

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<https://www.phoenixcontact.com/us/products/1019683>

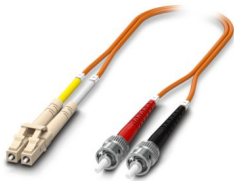


## FOC-LC:PA-ST:PA-OM2:D01/1 - Fiber optic cable

1115588

<https://www.phoenixcontact.com/us/products/1115588>

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 1 m



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## FOC-ST:PA-ST:PA-OM2:D01/2 - FO patch cable

1115557

<https://www.phoenixcontact.com/us/products/1115557>

Multi-mode OM2 duplex jumper, ST-ST, UPC polishing, length 2 m



# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box

1019683

<https://www.phoenixcontact.com/us/products/1019683>

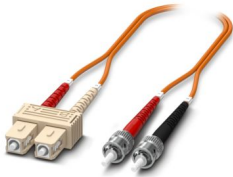


## FOC-ST:PA-SC:PA-OM2:D01/2 - FO patch cable

1115573

<https://www.phoenixcontact.com/us/products/1115573>

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m



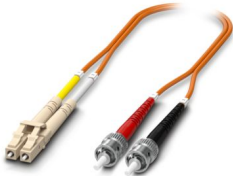
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## FOC-LC:PA-ST:PA-OM2:D01/2 - Fiber optic cable

1115587

<https://www.phoenixcontact.com/us/products/1115587>

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 2 m



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## FOC-ST:PA-ST:PA-OM2:D01/5 - FO patch cable

1115554

<https://www.phoenixcontact.com/us/products/1115554>

Multi-mode OM2 duplex jumper, ST-ST, UPC polishing, length 5 m



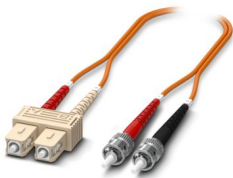
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## FOC-ST:PA-SC:PA-OM2:D01/5 - FO patch cable

1115570

<https://www.phoenixcontact.com/us/products/1115570>

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 5 m



## FOC-FDX20-PP-STD6-OM2-PT9 - Splice box

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<https://www.phoenixcontact.com/us/products/1019683>

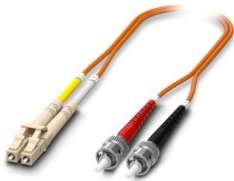


## FOC-LC:PA-ST:PA-OM2:D01/5 - FO patch cable

1115584

<https://www.phoenixcontact.com/us/products/1115584>

Multi-mode OM2 duplex jumper, LC-ST, UPC polishing, length 5 m



## FOC-OE-OE-GL-U-OM2-12/... - FO cable

1286222

<https://www.phoenixcontact.com/us/products/1286222>



GOF universal cable, 12-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

# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



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<https://www.phoenixcontact.com/us/products/1019683>

## FOC-ST:A-ST:A-GZ01/... - FO patch cable

1405712

<https://www.phoenixcontact.com/us/products/1405712>



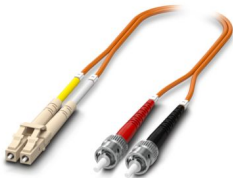
Assembled FO cable, zip cord cable, multi-mode fiberglass 50/125  $\mu\text{m}$ , OM2, plug: B-FOC (ST)/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets

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## FOC-ST:A-LC:A-GZ01/... - FO patch cable

1405706

<https://www.phoenixcontact.com/us/products/1405706>



Assembled FO cable, zip cord cable, multi-mode fiberglass 50/125  $\mu\text{m}$ , OM2, plug: B-FOC (ST)/LC, degree of protection: IP20, for installation in cable ducts or control cabinets

# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



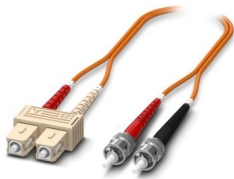
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<https://www.phoenixcontact.com/us/products/1019683>

## FOC-ST:A-SC:A-GZ01/... - FO patch cable

1405708

<https://www.phoenixcontact.com/us/products/1405708>



Assembled FO cable, zip cord cable, multi-mode fiberglass 50/125  $\mu\text{m}$ , OM2, plug: B-FOC (ST)/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets

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## FOC-ST:A-SJ:A-GZ01/... - FO patch cable

1405710

<https://www.phoenixcontact.com/us/products/1405710>



Assembled FO cable, zip cord cable, multi-mode fiberglass 50/125  $\mu\text{m}$ , OM2, plug: B-FOC (ST)/SC-RJ, degree of protection: IP20, for installation in cable ducts or control cabinets

## FOC-FDX20-PP-STD6-OM2-PT9 - Splice box

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<https://www.phoenixcontact.com/us/products/1019683>

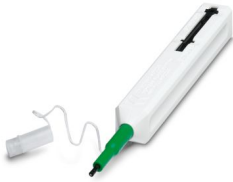


## FOC-TOOL-FERRULECLEANER-2.50 - FO accessories

1407029

<https://www.phoenixcontact.com/us/products/1407029>

2.50 mm ferrule cleaner, for ST, SC, FC, E2000 (also APC), approx. 500 cleaning cycles



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## FOC-TOOL-STICKCLEANER-2.50 - FO accessories

1407002

<https://www.phoenixcontact.com/us/products/1407002>

Stick cleaner for couplings and plug end faces, 2.50 mm (ST, SC), Pcs. / Pkt.: 10



# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



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<https://www.phoenixcontact.com/us/products/1019683>

## 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



# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



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<https://www.phoenixcontact.com/us/products/1019683>

## 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

# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



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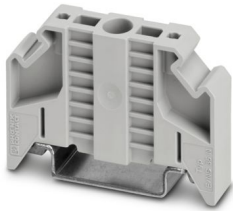
<https://www.phoenixcontact.com/us/products/1019683>

## 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



## FOC-FDX20-PP-STD6-OM2-PT9 - Splice box

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<https://www.phoenixcontact.com/us/products/1019683>



## 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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<https://www.phoenixcontact.com/us/products/1019683>

## 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

# FOC-FDX20-PP-STD6-OM2-PT9 - Splice box



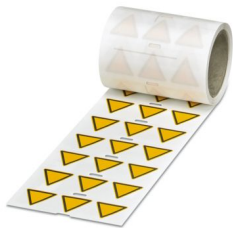
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## PML-W100 (25X25)R - Warning label

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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<https://www.phoenixcontact.com/us/products/1019683>

## 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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