

# FOC-FDX20-PP-STD6-OM1-PT9 - Splice box



1019684

<https://www.phoenixcontact.com/us/products/1019684>

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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 ST duplex couplings, fully assembled and ready for splicing with pre-assembled 900 µm pigtails (OM1) and splice holder (for separately sold shrink and crimp splice protection) on a patented splice comb made from powder-coated sheet steel. Cable insertion possible via cable gland either at the top or bottom. Housing (2-part) prepared for DIN rail mounting through rear-side adapter (this can also be mounted on the side).

### Scope of supply:

DIN rail housing with integrated splice comb (mounted), equipped with 6x ST duplex couplings, 12x pigtails (OM1), 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
- Reduced installation time with plug-and-play
- Pin assignment straight in line in a link
- Continuously reliable data connection, thanks to extensively tested components
- Snap-on mounting on standard NS 35/7,5 or NS 35/15 DIN rails
- Transmission rate up to 1,000 Mbps

## Commercial data

Item number	1019684
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB15
Product key	ABNGAA
Catalog page	Page 381 (C-2-2019)
GTIN	4055626701134
Weight per piece (including packing)	818.7 g
Weight per piece (excluding packing)	833.3 g
Customs tariff number	85367000
Country of origin	DE

## Technical data

### Notes

General	In addition, shrink splice protection (Item No.: 1019676) or crimp splice protection (Item No.: 1019678) must be ordered separately.
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### Product properties

Type	Rail-mountable module
Product type	Network distributor box
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
Housing type	DIN rail adapter
Protective cover	yes
Series	FDX 20 series
Cable outlet	above and below

### Electrical properties

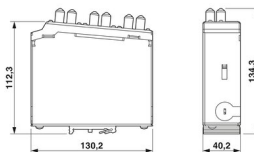
Attenuation	≤ 0.3 dB
Transmission medium	FO

### Connection data

#### Connection technology

Connection method	Splicing
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### Dimensions

Dimensional drawing	
Width	40 mm
Height	130 mm
Depth	115 mm

#### Housing

Housing width	40 mm
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#### Mechanical characteristics

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Ferrule diameter	2.50 mm
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## Material specifications

Color	gray
Flammability rating according to UL 94	V0
Ferrule material	Zirconia ceramics
Housing surface material	Powder-coated, gray
Housing material	Metal

## 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	≤ 12 mm (of 6 mm)
	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
Flame resistance	yes

## FO cable

Number of fibers	12
Fiber	GOF
Fiber type	Multimode fiberglass 62.5/125 µm
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
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (according to IEC 60529)
	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Ambient temperature (assembly)	0 °C ... 50 °C
Resistance to UV radiation	yes

## Standards and regulations

Resistance to UV radiation	yes
Flame resistance	yes

## Mounting

Mounting type	DIN rail mounting
Assembly instructions	Option for flexible replugging of DIN rail adapter
Connection method	Splicing

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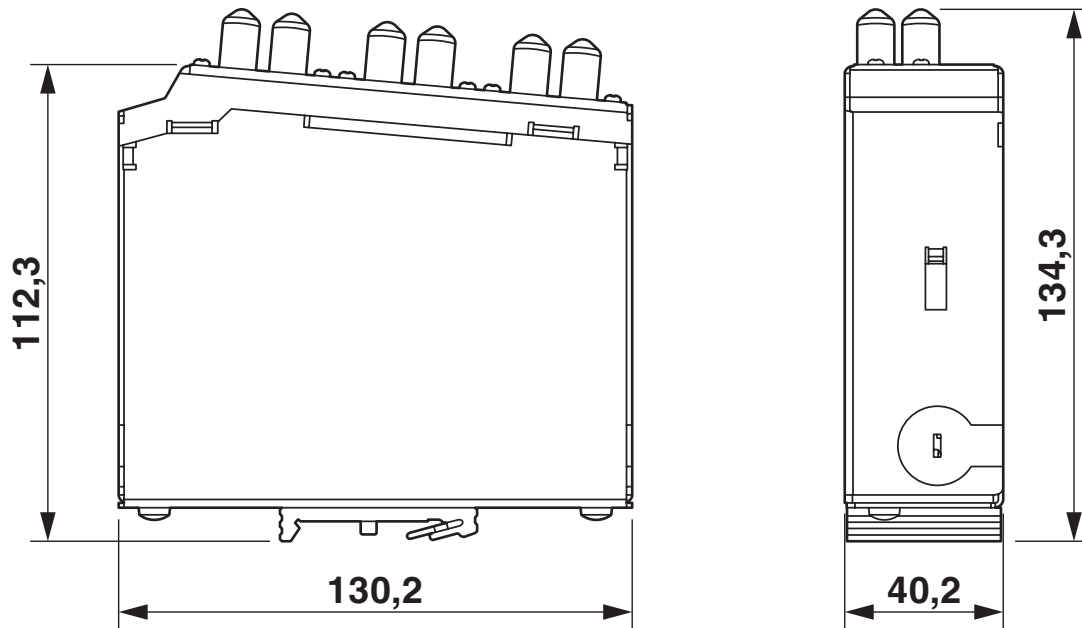
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## Drawings

Dimensional drawing



DIN rail splice box 6x ST duplex OM1, fully mounted ready to splice

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## Approvals

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**EAC**

Approval ID: B.01687

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002699
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### UNSPSC

UNSPSC 21.0	43223300
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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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-OM1:D01/1 - FO patch cable

1146501

<https://www.phoenixcontact.com/us/products/1146501>

Multi-mode OM1 duplex jumper, ST-ST, UPC polishing, length 1 m



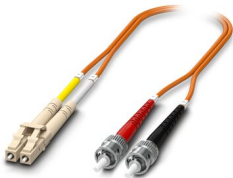
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## FOC-LC:PA-ST:PA-OM1:D01/1 - FO patch cable

1146499

<https://www.phoenixcontact.com/us/products/1146499>

Multi-mode OM1 duplex jumper, LC-ST, UPC polishing, length 1 m



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

1146509

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

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



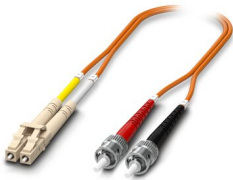
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## FOC-LC:PA-ST:PA-OM1:D01/2 - FO patch cable

1146508

<https://www.phoenixcontact.com/us/products/1146508>

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



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## FOC-ST:PA-ST:PA-OM1:D01/5 - FO patch cable

1146517

<https://www.phoenixcontact.com/us/products/1146517>

Multi-mode OM1 duplex jumper, ST-ST, UPC polishing, length 5 m



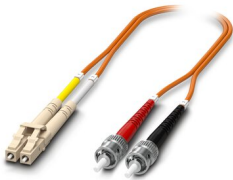
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## FOC-LC:PA-ST:PA-OM1:D01/5 - FO patch cable

1146516

<https://www.phoenixcontact.com/us/products/1146516>

Multi-mode OM1 duplex jumper, LC-ST, UPC polishing, length 5 m



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## FOC-OE-OE-GL-U-OM1-12/... - FO cable

1286223

<https://www.phoenixcontact.com/us/products/1286223>



GOF universal cable; 12-wire, loose tube cable for fixed installation; non-metal rodent protection; can be stripped easily; UV resistant; high mechanical and thermal stability; low smoke; halogen-free and self-extinguishing; improved impact resistance; longitudinally and transversely watertight

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## FOC-ST:A-ST:A-GZ04/... - FO patch cable

1413821

<https://www.phoenixcontact.com/us/products/1413821>



Assembled FO cable, zip cord cable, multi-mode fiberglass 62.5/125  $\mu\text{m}$ , OM1, connector: B-FOC (ST)/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets

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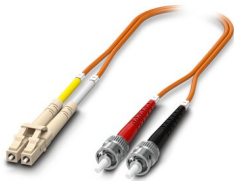
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<https://www.phoenixcontact.com/us/products/1019684>

## FOC-ST:A-LC:A-GZ04/... - FO patch cable

1413792

<https://www.phoenixcontact.com/us/products/1413792>



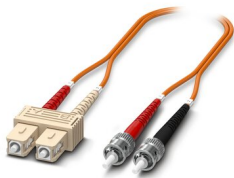
Assembled FO cable, zip cord cable, multi-mode fiberglass 62.5/125  $\mu\text{m}$ , OM1, connector: B-FOC (ST)/LC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets

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## FOC-SC:A-ST:A-GZ04/... - FO patch cable

1413791

<https://www.phoenixcontact.com/us/products/1413791>



Assembled FO cable, zip cord cable, multi-mode fiberglass 62.5/125  $\mu\text{m}$ , OM1, connector: SC duplex/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets

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<https://www.phoenixcontact.com/us/products/1019684>

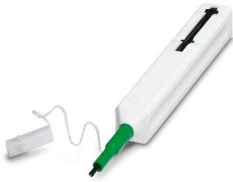


## FOC-TOOL-FERRULECLEANER-2.50 - FO accessories

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



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<https://www.phoenixcontact.com/us/products/1019684>

## 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: lightgrey RAL 7035, with O-ring



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## WP-CN PA M20 - Nut

3241134

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

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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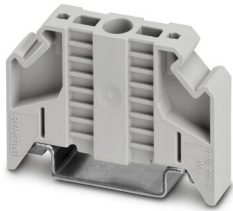
<https://www.phoenixcontact.com/us/products/1019684>

## E/NS 35 N - End clamp

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, external cable diameter 6 mm ... 12 mm, shielding: no, connecting thread: M20 x 1.5, color: silver-grey 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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