

1019692

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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 SC duplex couplings, fully assembled and ready for splicing, with pre-assembled 900 µm pigtails (OS2) 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 SC duplex couplings, 12x pigtails (OS2), 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 1000 Mbps

#### Commercial data

Item number	1019692
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB15
Product key	ABNGAA
Catalog page	Page 381 (C-2-2019)
GTIN	4055626701110
Weight per piece (including packing)	776 g
Weight per piece (excluding packing)	577 g
Customs tariff number	85367000
Country of origin	DE



1019692

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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.
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# Product properties

Product type	Network distributor box
Housing type	DIN rail adapter
Series	FDX 20 series
Туре	Rail-mountable module
Sensor type	Ethernet
Connection profile	SC-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

# Electrical properties

Attenuation	≤ 0.3 dB
Transmission medium	FO

# Connection data

#### Connection technology

Connection method	Splicing
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# Dimensions

Dimensional drawing	139.2 - 49.2 -
Width	40 mm
Height	130 mm
Depth	115 mm

#### Housing

riousing	
Housing width	40 mm

#### Mechanical characteristics



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erial specifications  Color  Flammability rating according to UL 94  Forrule material  Housing material  Housing surface material  Housing surface material  Flowing material  Housing surface material  Fowder-coated, gray  Idefline  Cable type  Single-mode fiberglass  Cable type  Single-mode fiberglass  Cable type  Single-mode fiberglass  Cable structure  Semi-loose compact wires (STB)  External cable diameter  External cable diameter  Single-wire, color  Assignment color-coded in accordance with IEC 60794  Halogen-free  Pee  Flame resistance  Death  Cable  Number of fibers  12  Fliber  GOF  Fiber type  Single-mode fiberglass, resistant to bending G.657 A2  Attenuation  Return Loss  2 50 dB (at 1310 nm / 1550 nm)  FO  hanical properties  schanical data  Type of the screw connection  Insertion/withdrawal cycles  racteristics  Attenuation  \$ 0.3 dB  Transmission medium  \$ 120 (according to IEC 60529)  IP20 (according to IEC 60529)  IP20  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)		
Color         gray           Flammability rating according to UL 94         V0           Ferrule material         Zirconia ceramics           Housing material         Metal           Housing surface material         Powder-coated, gray           le/line         Single-mode fiberglass           Cable type         900 µm           Cable type         900 µm           Cable structure         semi-loose compact wires (STB)           External cable diameter         6 mm 12 mm           Wive diameter incl. insulation         900 µm           Wive diameter incl. insulation         900 µm           Wive diameter incl. insulation         900 µm           Single wire, color         Assignment color-coded in accordance with IEC 60794           Halogen-free         yes           Islame resistance         yes           O cable         Ves           Number of fibers         12           Fiber type         Single-mode fiberglass, resistant to bending G, 657 A2           Attenuation         ≤ 0.3 dB (at 1310 nm / 1550 nm)           Transmission medium         FO           hanical properties         Sector           Sector         Sector           Attenuation         ≤ 0.3 dB	Ferrule diameter	2.50 mm
Flammability rating according to UL 94	terial specifications	
Ferrule material   Zirconia ceramics	Color	gray
Housing material Housing surface material Powder-coated, gray  Le/line  Cable type Single-mode fiberglass Cable type 900 µm Cable structure semi-loose compact wires (STB) External cable diameter 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 Halogen-free yes Flame resistance  Ves  Cable Number of fibers 12 Fiber GOF Fiber GOF Fiber type Single-mode fiberglass, resistant to bending G.657 A2 Attenuation \$ 0.3 dB (at 1310 nm / 1550 nm) Return Loos 2 50 dB (at 1310 nm / 1550 nm) For hanical properties  Catalical data Type of the screw connection M20 x 1.5 Insertion/withdrawal cycles  racteristics  Attenuation \$ 0.3 dB  rronmental and real-life conditions  The properties of the screw connection Insertion/withdrawal cycles  racteristics  Attenuation PD (according to IEC 60529) IP20 Ambient temperature (operation) 40° C 85° C  Ambient temperature (storage/transport) 40° C 85° C	Flammability rating according to UL 94	VO
Powder-coated, gray     Incident     Inci	Ferrule material	Zirconia ceramics
Le/line   Single-mode fiberglass   Single-mode fiberglass	Housing material	Metal
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           Halogen-free         yes           Flame resistance         yes           O cable         Ves           Number of fibers         12           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           hanical properties           schanical data           Type of the screw connection         M20 x 1.5           Insertion/withdrawal cycles         ≥ 500           racteristics           Attenuation         ≤ 0.3 dB           ronnential and real-life conditions           Degree of protection         IP20 (according	Housing surface material	Powder-coated, gray
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           Halogen-free         yes           Flame resistance         yes           O cable         Ves           Number of fibers         12           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           hanical properties           schanical data           Type of the screw connection         M20 x 1.5           Insertion/withdrawal cycles         ≥ 500           racteristics           Attenuation         ≤ 0.3 dB           ronmental and real-life conditions           nbient conditions           Degree of protection         IP20 (according to IEC 60529)      <	ble/line	
Cable structure         semi-loose compact wires (STB)           External cable diameter         6 mm 12 mm           Wire diameter incl. insulation         900 µm           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           Halogen-free         yes           Flame resistance         yes           O cable         Value           Number of fibers         12           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           hanical properties           sechanical data           Type of the screw connection         M20 x 1.5           Insertion/withdrawal cycles         ≥ 500           racteristics           Attenuation         ≤ 0.3 dB           ronmental and real-life conditions           Inbient conditions           Degree of protection         IP20 (according to IEC 60529)           IP20         40 °C 85 °C	Cable type	Single-mode fiberglass
External cable diameter 6 mm 12 mm  External cable diameter 6 mm 12 mm  Wire diameter incl. insulation 900 μm  Individual wire diameter 9900 μm (250/900 μm)  Single wire, color Assignment color-coded in accordance with IEC 60794  Halogen-free yes  Plame resistance yes  Cable  Number of fibers 12  Fiber GOF  Fiber ye 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  hanical properties  schanical data  Type of the screw connection M20 x 1.5  Insertion/withdrawal cycles  racteristics  Attenuation ≤ 0.3 dB  ronmental and real-life conditions  begree of protection IP20 (according to IEC 60529)  IP20  Ambient temperature (operation) 4-40 °C 85 °C  Ambient temperature (operation) -40 °C 85 °C	Cable type	900 µm
External cable diameter 6 mm 12 mm  Wire diameter incl. insulation 900 μm  Individual wire diameter 9000 μm (250/900 μm)  Single wire, color Assignment color-coded in accordance with IEC 60794  Halogen-free yes  Plame resistance yes  O cable  Number of fibers 12  Fiber GOF  Fiber yes  Single-mode fiberglass, resistant to bending G.657 A2  Attenuation ≤ 0.3 dB (at 1310 nm / 1550 nm)  Formatical properties  Particular diameter incl. insulation M20 x 1.5  Insertion/withdrawal cycles  Particular incl. insertion/withdrawal cycles  Particular incl. insertion/withdrawal cycles  Particular incl. insertion/withdrawal cycles  Particular incl. insertion/withdrawal incl. insertion/withdrawal incl. insertion/withdrawal incl. insertion/withdrawal insertion insertin	Cable structure	semi-loose compact wires (STB)
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           Halogen-free         yes           Flame resistance         yes           O cable	External cable diameter	6 mm 12 mm
Individual wire diameter   900 μm (250/900 μm)     Single wire, color   Assignment color-coded in accordance with IEC 60794     Halogen-free   yes     Flame resistance   yes     O cable     Number of fibers   12     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)     FO	External cable diameter	6 mm 12 mm
Single wire, color  Assignment color-coded in accordance with IEC 60794 Halogen-free  yes  Plame resistance  yes  Cable  Number of fibers  12  Fiber  GOF  Fiber type  Single-mode fiberglass, resistant to bending G.657 A2  Attenuation  Seturn Loss  ≥ 50 dB (at 1310 nm / 1550 nm)  Return Loss  Transmission medium  FO  hanical properties  schanical data  Type of the screw connection  Insertion/withdrawal cycles  racteristics  Attenuation  ≤ 0.3 dB  rronmental and real-life conditions  mibient conditions  Degree of protection  IP20 (according to IEC 60529)  IP20  Ambient temperature (operation)  And °C 85 °C  Ambient temperature (storage/transport)  Assignment color-coded in accordance with IEC 60794  yes  yes  12  12  60F  Single-mode fiberglass, resistant to bending G.657 A2  40 °C 85 °C	Wire diameter incl. insulation	900 µm
Halogen-free yes Flame resistance yes  Plame resistant to bending G.657 A2  Plame resistant t	Individual wire diameter	900 μm (250/900 μm)
Flame resistance    December   D	Single wire, color	Assignment color-coded in accordance with IEC 60794-2
D cable         Number of fibers       12         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         hanical properties       sechanical data         Type of the screw connection       M20 x 1.5         Insertion/withdrawal cycles       ≥ 500         racteristics         Attenuation       ≤ 0.3 dB         rronmental and real-life conditions         nbient conditions       IP20 (according to IEC 60529)         IP20         Ambient temperature (operation)       40 °C 85 °C         Ambient temperature (storage/transport)       40 °C 85 °C	Halogen-free	yes
Number of fibers         12           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           hanical properties         FO           chanical data         M20 x 1.5           Insertion/withdrawal cycles         ≥ 500           racteristics           Attenuation         ≤ 0.3 dB           ronmental and real-life conditions           nbient conditions         IP20 (according to IEC 60529)           IP20         (according to IEC 60529)           IP20         Ambient temperature (operation)         40 °C 85 °C           Ambient temperature (storage/transport)         -40 °C 85 °C	Flame resistance	yes
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           hanical properties         FO           chanical data         ### Wide State of Company of the screw connection           Insertion/withdrawal cycles         ≥ 500           racteristics         Attenuation         ≤ 0.3 dB           rronmental and real-life conditions         ### Wide State of Company	FO cable	
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           hanical properties         FO           achanical data         Type of the screw connection           Insertion/withdrawal cycles         ≥ 500           racteristics         Attenuation         ≤ 0.3 dB           ronmental and real-life conditions         IP20 (according to IEC 60529)           Insertion temperature (operation)         40 °C 85 °C           Ambient temperature (storage/transport)         -40 °C 85 °C	Number of fibers	12
Attenuation	Fiber	GOF
Return Loss ≥ 50 dB (at 1310 nm / 1550 nm)  Transmission medium FO  hanical properties  echanical data  Type of the screw connection M20 x 1.5 Insertion/withdrawal cycles ≥ 500  racteristics  Attenuation ≤ 0.3 dB  ronmental and real-life conditions  nbient 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	Fiber type	Single-mode fiberglass, resistant to bending G.657 A2
Transmission medium  hanical properties  chanical data  Type of the screw connection  Insertion/withdrawal cycles  racteristics  Attenuation  ≤ 0.3 dB  ronmental and real-life conditions  nbient conditions  Degree of protection  IP20 (according to IEC 60529)  IP20  Ambient temperature (operation)  Ambient temperature (storage/transport)  FO  M20 x 1.5  M20 x 1.5  0 3 dB  FO  M20 x 1.5  P20  IP20 (according to IEC 60529)  IP20  Anorem 85 °C  40 °C 85 °C	Attenuation	≤ 0.3 dB (at 1310 nm / 1550 nm)
hanical properties  chanical data  Type of the screw connection M20 x 1.5  Insertion/withdrawal cycles ≥ 500  racteristics  Attenuation ≤ 0.3 dB  ronmental and real-life conditions  nbient 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	Return Loss	≥ 50 dB (at 1310 nm / 1550 nm)
rechanical data  Type of the screw connection M20 x 1.5  Insertion/withdrawal cycles ≥ 500  racteristics  Attenuation ≤ 0.3 dB  ronmental and real-life conditions  nbient 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	Transmission medium	FO
Type of the screw connection  Insertion/withdrawal cycles  Paracteristics  Attenuation  ≤ 0.3 dB  Tronmental and real-life conditions  Thient conditions  Degree of protection  IP20 (according to IEC 60529)  IP20  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  M20 x 1.5  M20 x 1.5  M20 x 1.5  M20 x 1.5  PE00  Ambient temperature (storage/transport)  M20 x 1.5  PE00  Ambient temperature (storage/transport)	chanical properties	
Insertion/withdrawal cycles  racteristics  Attenuation ≤ 0.3 dB  ronmental and real-life conditions  nbient 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	Mechanical data	
Insertion/withdrawal cycles  racteristics  Attenuation ≤ 0.3 dB  ronmental and real-life conditions  nbient 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	Type of the screw connection	M20 x 1.5
Attenuation ≤ 0.3 dB  ronmental and real-life conditions  bient conditions  Degree of protection  IP20 (according to IEC 60529)  IP20  Ambient temperature (operation)  -40 °C 85 °C  Ambient temperature (storage/transport)	Insertion/withdrawal cycles	≥ 500
ronmental and real-life conditions  abient 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	aracteristics	
Degree of protection  IP20 (according to IEC 60529)  IP20  Ambient temperature (operation)  Ambient temperature (storage/transport)  IP20  -40 °C 85 °C  -40 °C 85 °C	Attenuation	≤ 0.3 dB
Degree of protection  IP20 (according to IEC 60529)  IP20  Ambient temperature (operation)  Ambient temperature (storage/transport)  IP20  -40 °C 85 °C  -40 °C 85 °C		
Degree of protection IP20 (according to IEC 60529)  IP20  Ambient temperature (operation) -40 °C 85 °C  Ambient temperature (storage/transport) -40 °C 85 °C	vironmental and real-life conditions	
IP20 Ambient temperature (operation) -40 °C 85 °C Ambient temperature (storage/transport) -40 °C 85 °C	ambient conditions	
Ambient temperature (operation)  -40 °C 85 °C  -40 °C 85 °C  -40 °C 85 °C	Degree of protection	IP20 (according to IEC 60529)
Ambient temperature (storage/transport) -40 °C 85 °C		IP20
	Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (assembly) 0 °C 50 °C	Ambient temperature (storage/transport)	-40 °C 85 °C
• • • • • • • • • • • • • • • • • • • •	Ambient temperature (assembly)	0 °C 50 °C



1019692

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Resistance to UV radiation	yes
Standards and regulations	
Flame resistance	yes
Mounting	
Mounting type	DIN rail mounting
Assembly instructions	Option for flexible replugging of DIN rail adapter

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