

# SUBCON-PLUS M1 - D-SUB bus connector



2761826

<https://www.phoenixcontact.com/us/products/2761826>

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D-SUB connector, 9-pos., male connector, two 35° cable entries, bus system: Modbus, Modbus Plus, BITBUS, ARCNET, MULT/MININET (B&R), SYSTEM 2003 (B&R), P-NET, pin assignment: 1, 2, 3, 5, 6, 8 to two screw connection terminal blocks

## Product description

Two cable infeeds are often required on the D-SUB plugs used in order to build fieldbus systems with RS-485 interfaces. The SUBCON-PLUS plugs range fulfills this requirement and routes the connection to screw terminal blocks – however, duplicated – for two cables. This means clarity during wiring and it simplifies every startup. These plugs are of course also shielded against EMC influences with a metallized housing. In addition, by placing the connection block in either the upper or lower shell, it is possible to select the cable infeed on site from the right or left .

## Your advantages

- Separate terminal blocks for each cable
- Assembly under field conditions
- High transmission speed
- Easy assembly thanks to knurled screws
- High level of EMC
- Flexibility in terms of cable entry selection
- Can be used universally
- Change to the D-SUB orientation through a reversible connection block

## Commercial data

Item number	2761826
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC521
Catalog page	Page 450 (C-6-2019)
GTIN	4017918131821
Weight per piece (including packing)	75.5 g
Weight per piece (excluding packing)	75.5 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

#### Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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### Product properties

Product type	Data plug
MTTF	6706 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1817 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	155 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Pin assignment	1, 2, 3, 5, 6, 8 on two terminal blocks

### Electrical properties

Nominal voltage $U_N$	50 V DC
Nominal current $I_N$	100 mA
Transmission medium	Copper

### Connection data

#### D-SUB connection

Connection method	D-SUB connector
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#### PCB connection

Connection method	Screw connection
Stripping length	5 mm
Conductor cross section, rigid min.	0.14 mm <sup>2</sup>
Conductor cross section, rigid max.	1.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1 mm <sup>2</sup>
Single-wire/terminal point, rigid AWG min.	26
Single-wire/terminal point, rigid AWG max.	16
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	18

### Interfaces

Bus system	Modbus, BODBUS-PLUS, BITBUS, ARCNET, MULT/MININET(B&R), SYSTEM 2003(B&R), P-NET
Signal	RS-485

### Dimensions

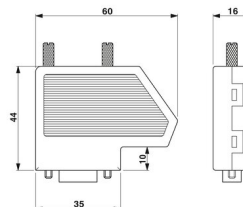
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## Dimensional drawing



Width	16 mm
Height	44 mm
Length	60 mm

## Material specifications

Material	ABS, metal-plated
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## Cable/line

External cable diameter ( )	6 mm ... 10 mm (Incoming bus line)
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 200
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP40
Ambient temperature (operation)	-20 °C ... 75 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

## Approvals

### EAC

Identification	EAC
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### ATEX

Identification	Ⓔ II 3 G Ex nA IIC T4 Gc X
Note	Please follow the special installation instructions in the documentation!

### Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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## Standards and regulations

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Free from substances that could impair the application of coating

in accordance with VW-AUDI-Seat central standard P-VW 3.10.7  
57 65 0

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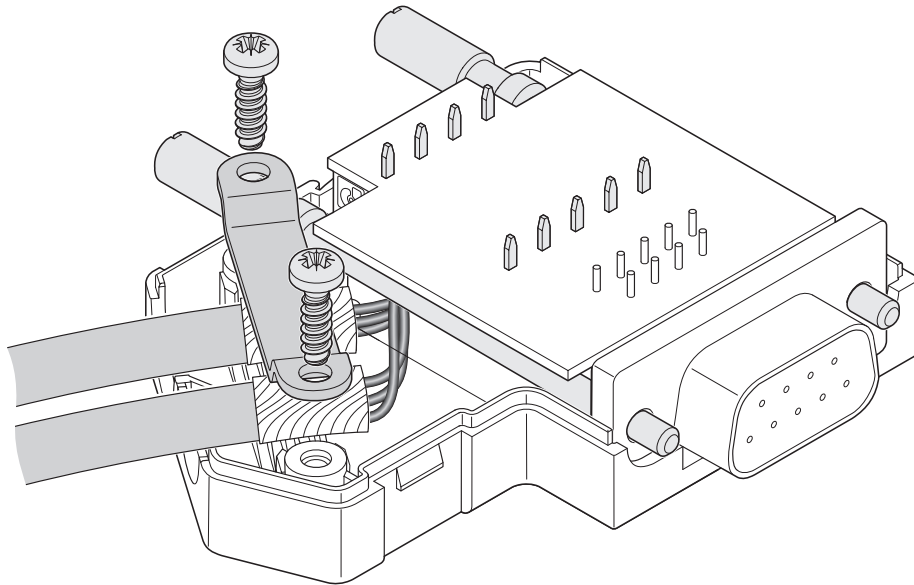


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## Drawings

Schematic diagram



Right-hand side cable entry

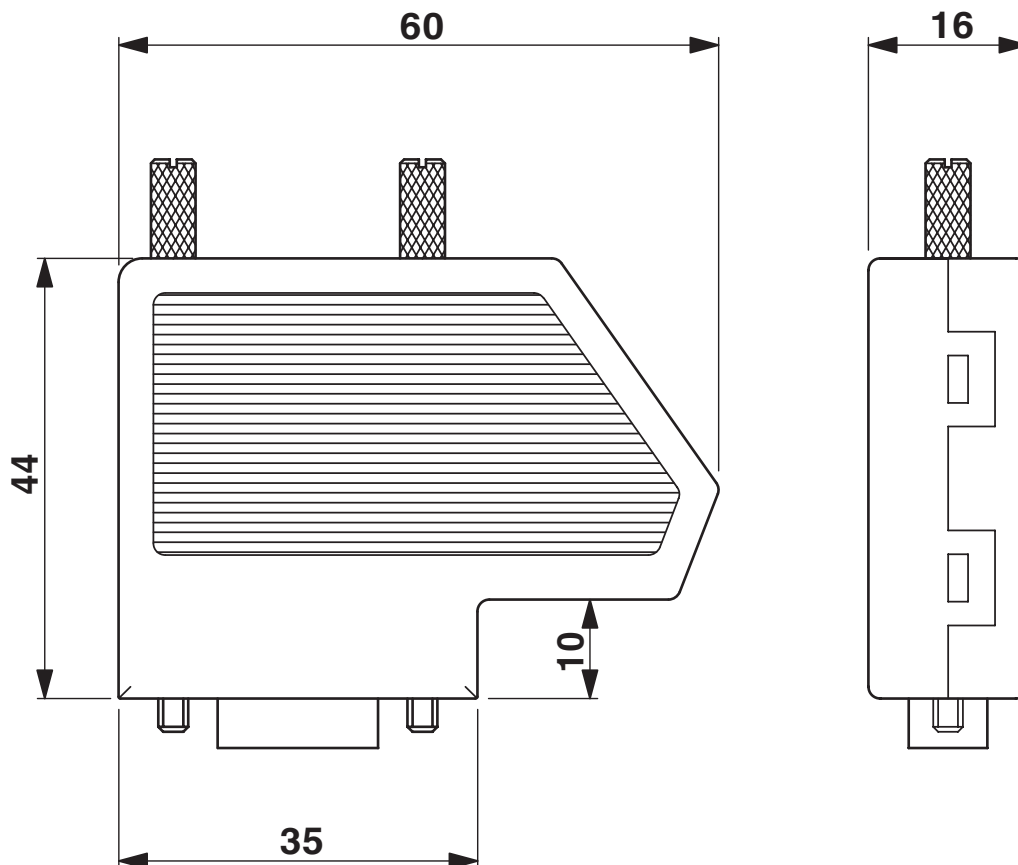
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Dimensional drawing



Dimensional drawing SUBCON-PLUS...

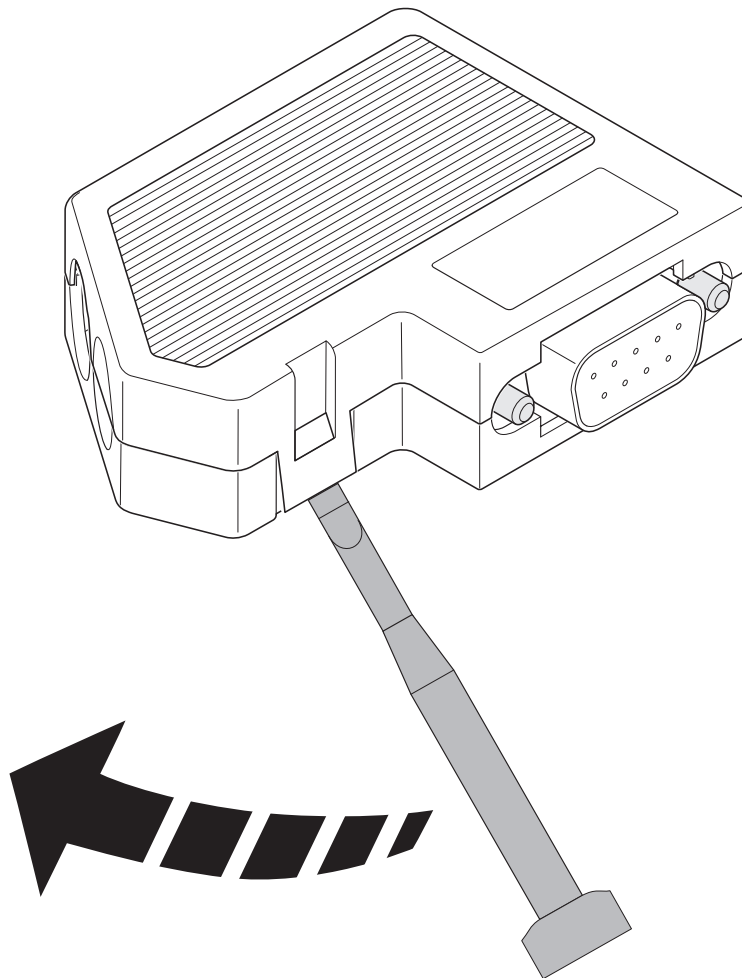
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Schematic diagram



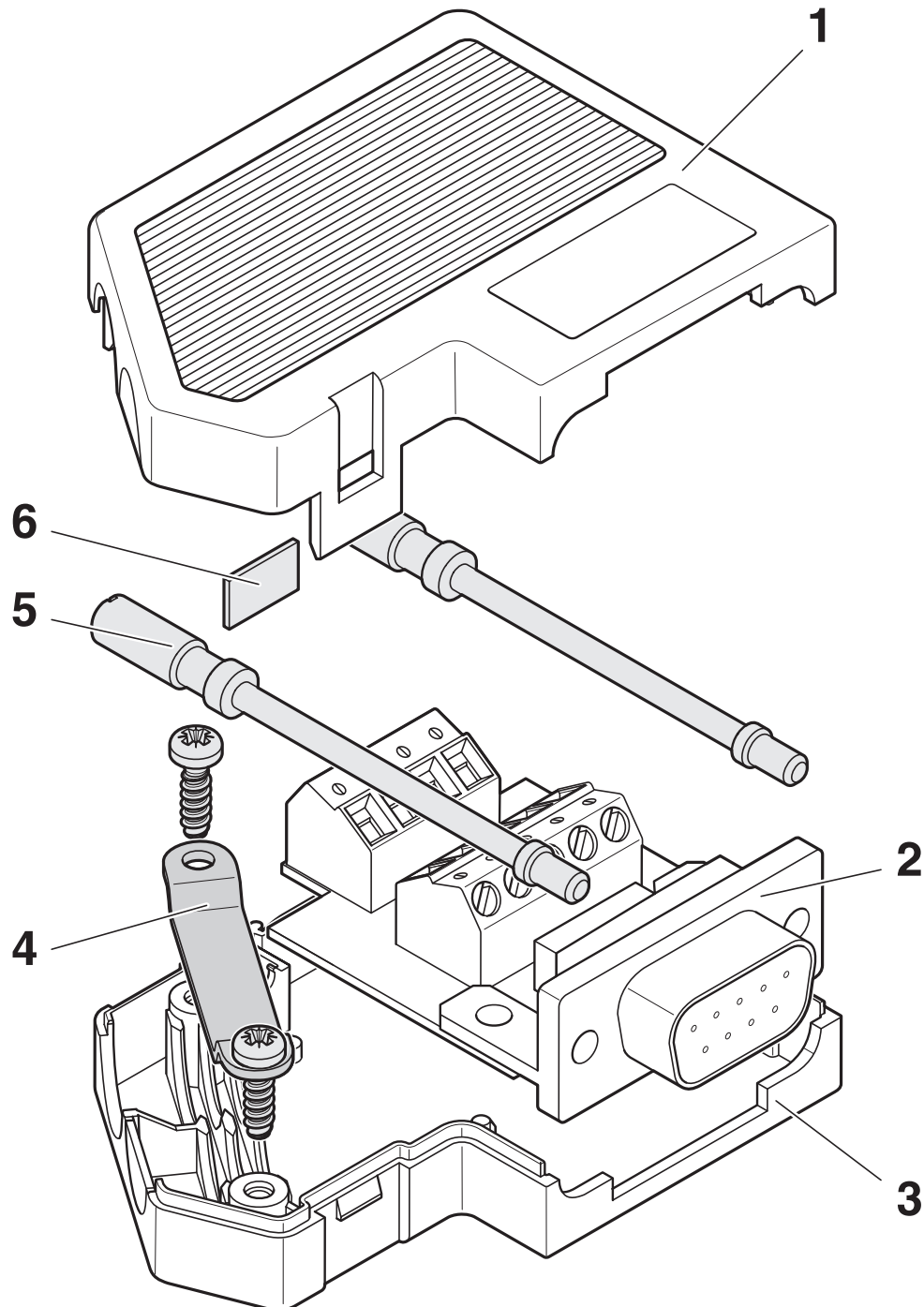
Opening the housing

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Schematic diagram



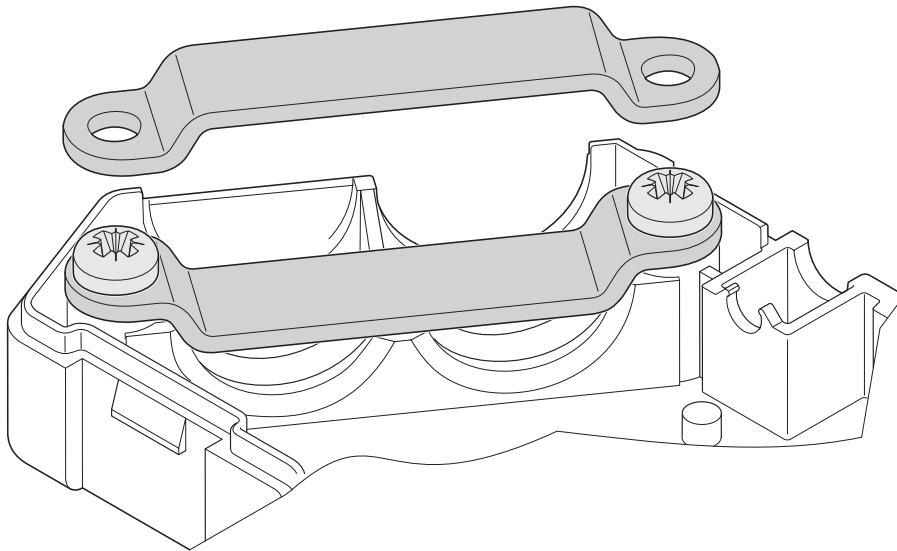
Function elements

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Schematic diagram



Clip bracket

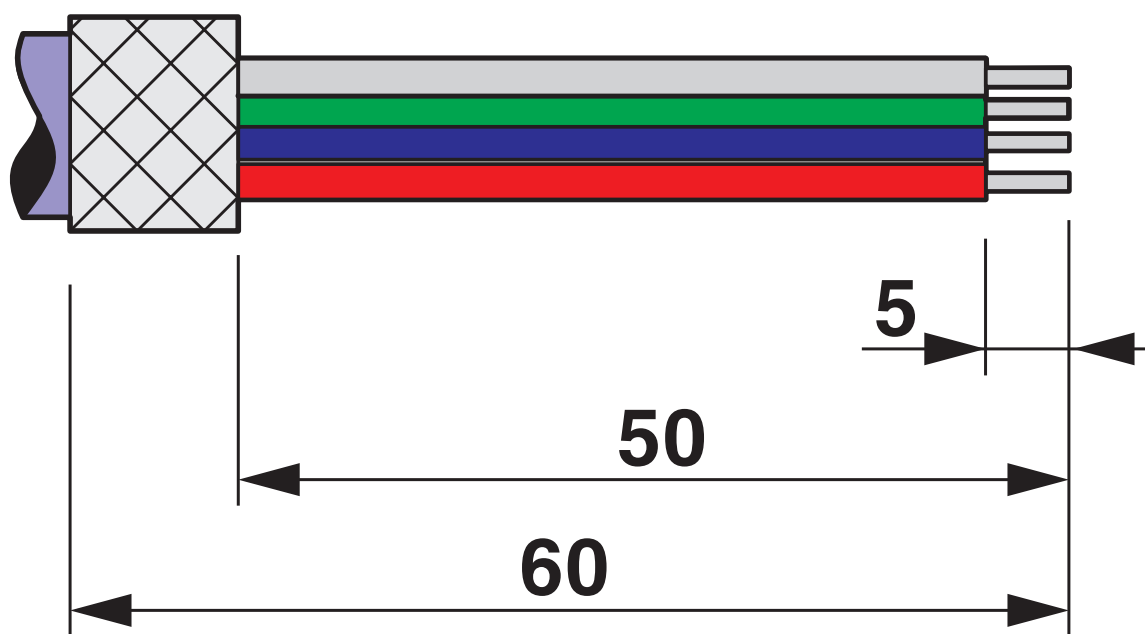
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Schematic diagram



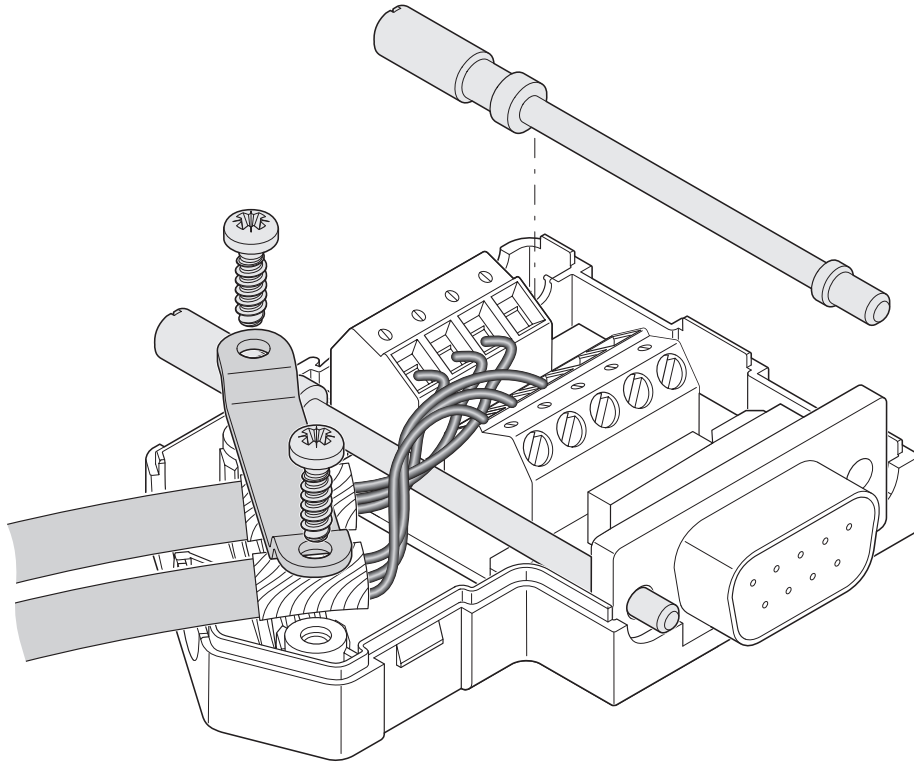
Stripping specifications

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Schematic diagram



Left-hand side cable entry

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2761826>



**cUL Recognized**

Approval ID: FILE E 238705



**UL Recognized**

Approval ID: FILE E 238705



**ATEX**

Approval ID: PxCIF14ATEX2744267X

**cULus Recognized**

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## Classifications

### ECLASS

ECLASS-11.0	27440302
ECLASS-12.0	27440302
ECLASS-13.0	27440302

### ETIM

ETIM 8.0	EC001132
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### UNSPSC

UNSPSC 21.0	39121400
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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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## Accessories

### SUBCON-SHORT-SCREW - Screw

2799694

<https://www.phoenixcontact.com/us/products/2799694>



Optional mounting screw, without knurl for narrow installation conditions, slotted head, length: 40 mm, UNC 4-40 thread Supplied as standard: 1 bag of 20 screws

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### SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/us/products/1204504>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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## VS-09-GC-BU/BU - D-SUB gender changer

1688722

<https://www.phoenixcontact.com/us/products/1688722>

D-SUB gender changer, degree of protection: IP20, number of positions: 9, material: Metal, connection method: Coupling, cable outlet: angled, housing size: 1, Universal



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