

## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



D-SUB connector, 9-pos., male connector, two cable entries < 35°, 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

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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 131821
GTIN	4017918131821
Sales Key	07

### Technical data

#### Dimensions

Max. cable diameter	10 mm
Min. cable diameter	6 mm
Width	16 mm

# D-SUB bus connector - SUBCON-PLUS M1 - 2761826

## Technical data

### Dimensions

Height	44 mm
Length	60 mm

### Ambient conditions

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)
Degree of protection	IP20
	IP20

### General

Nominal voltage $U_N$	50 V DC
Nominal current $I_N$	100 mA
Bus system	Modbus, BODBUS-PLUS, BITBUS, ARCNET, MULT/MININET(B&R), SYSTEM 2003(B&R), P-NET
Signal	RS-485
Insertion/withdrawal cycles	> 200
SUBCON fixing screws	4-40 UNC
Tightening torque	0.4 Nm
Housing material	ABS, metal-plated
Pin assignment	1,2,3,5,6,8 on two terminal blocks
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%)

### Connection data

Connection	D-SUB connection
Number of positions	9
Connection method	D-SUB connector
Tightening torque	0.4 Nm
Connection	PCB connection
Connection method	Screw connection
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	18
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16

## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

### Technical data

#### Connection data

Stripping length	5 mm
Tightening torque	0.4 Nm

#### Conformance/approvals

Designation	EAC
Identification	EAC
Designation	ATEX
Identification	# II 3 G Ex nA IIC T4 Gc X
Additional text	Please follow the special installation instructions in the documentation!
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A

#### Standards and Regulations

Free from substances that could impair the application of coating	according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard
Connection in acc. with standard	CUL

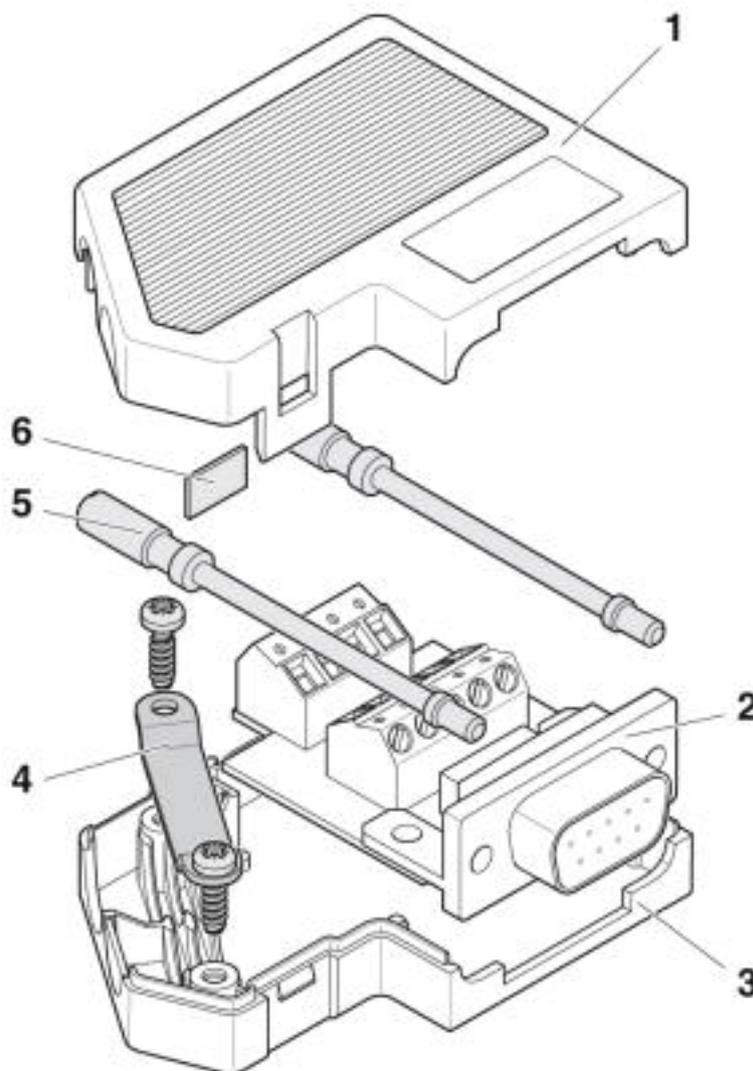
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

# D-SUB bus connector - SUBCON-PLUS M1 - 2761826

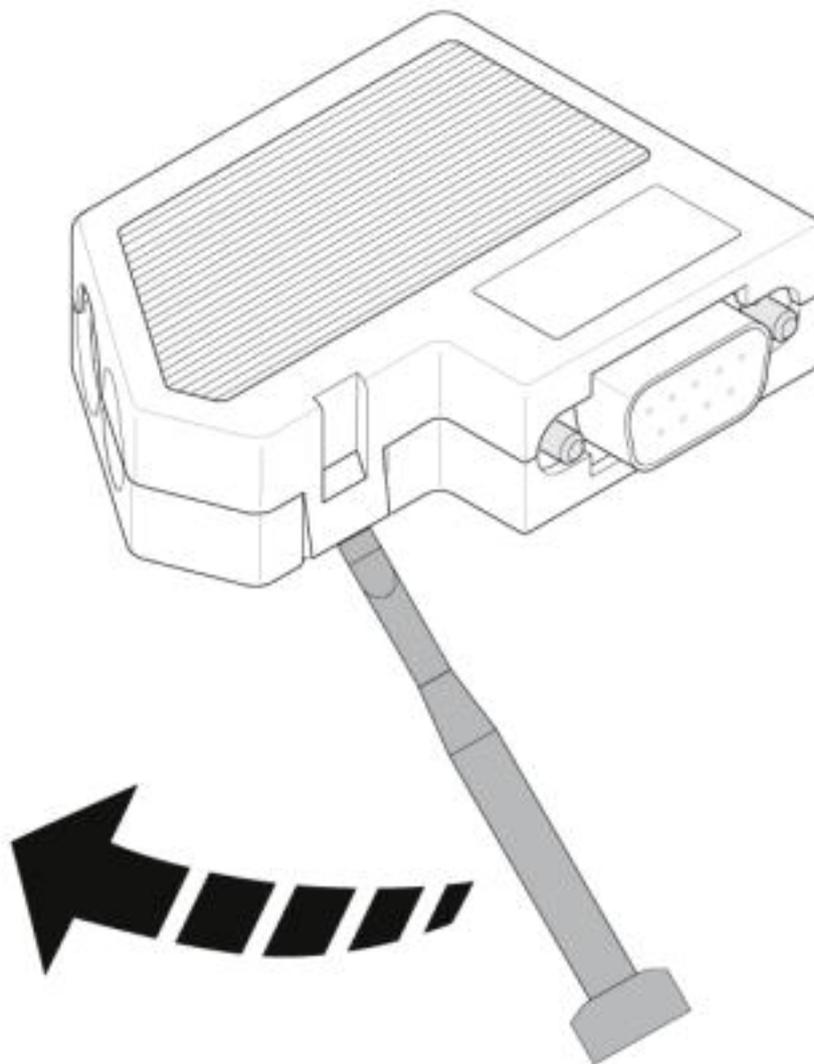
Schematic diagram



Function elements

## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

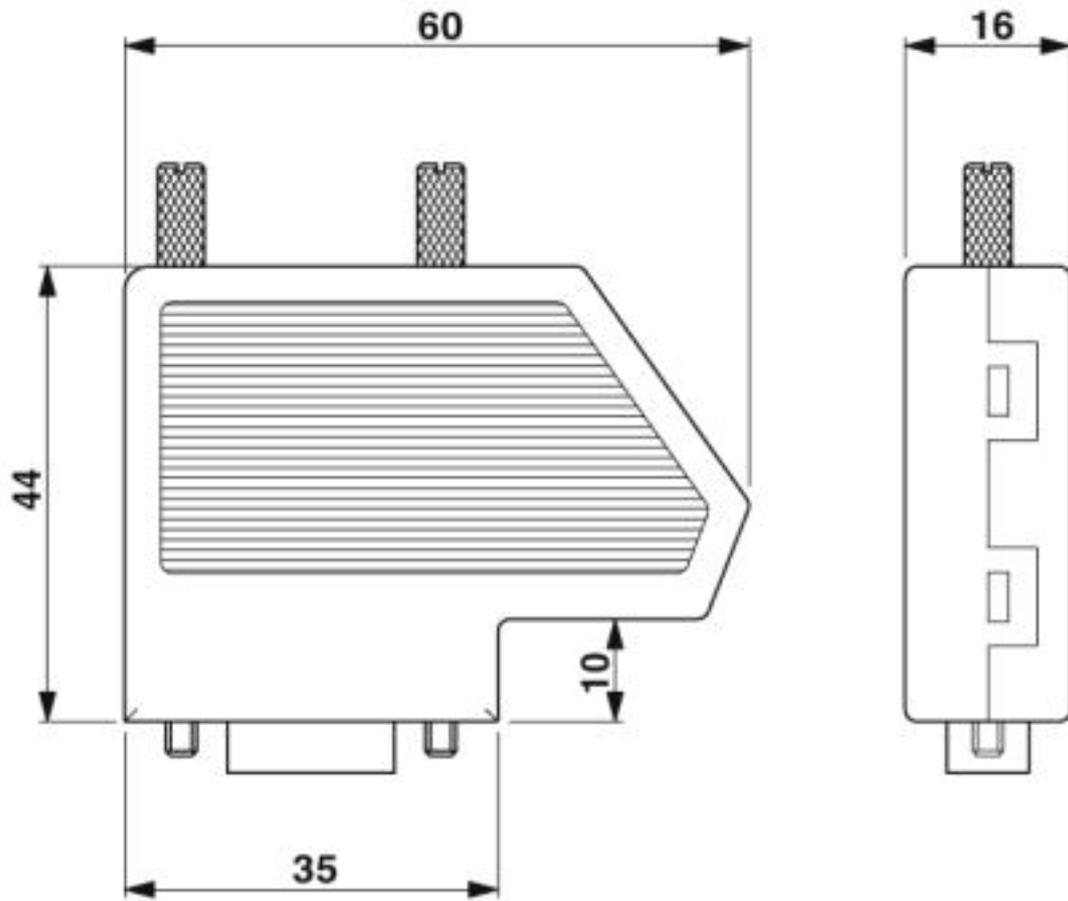
Schematic diagram



Opening the housing

## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

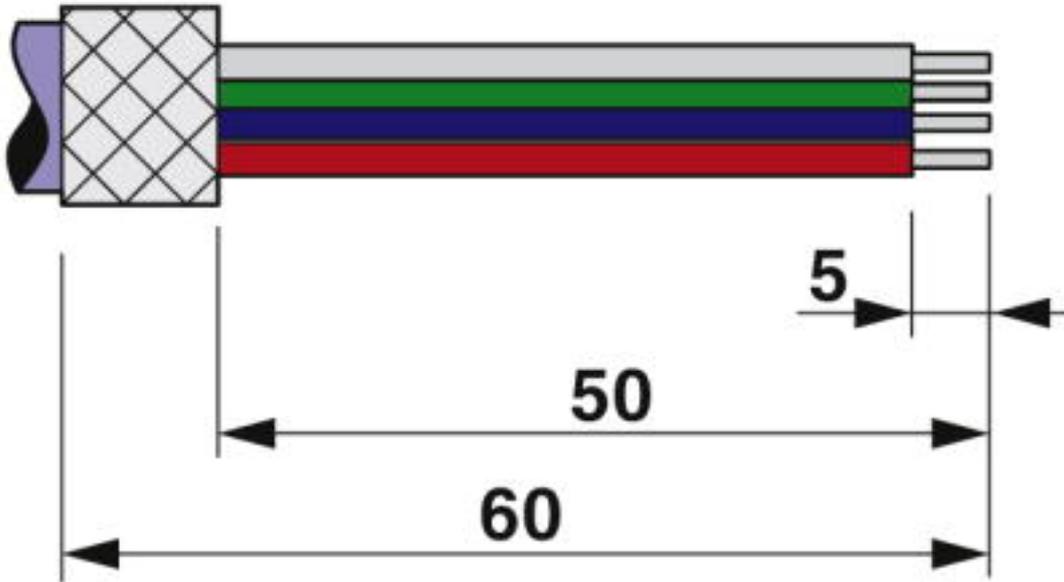
Dimensional drawing



Dimensional drawing SUBCON-PLUS...

# D-SUB bus connector - SUBCON-PLUS M1 - 2761826

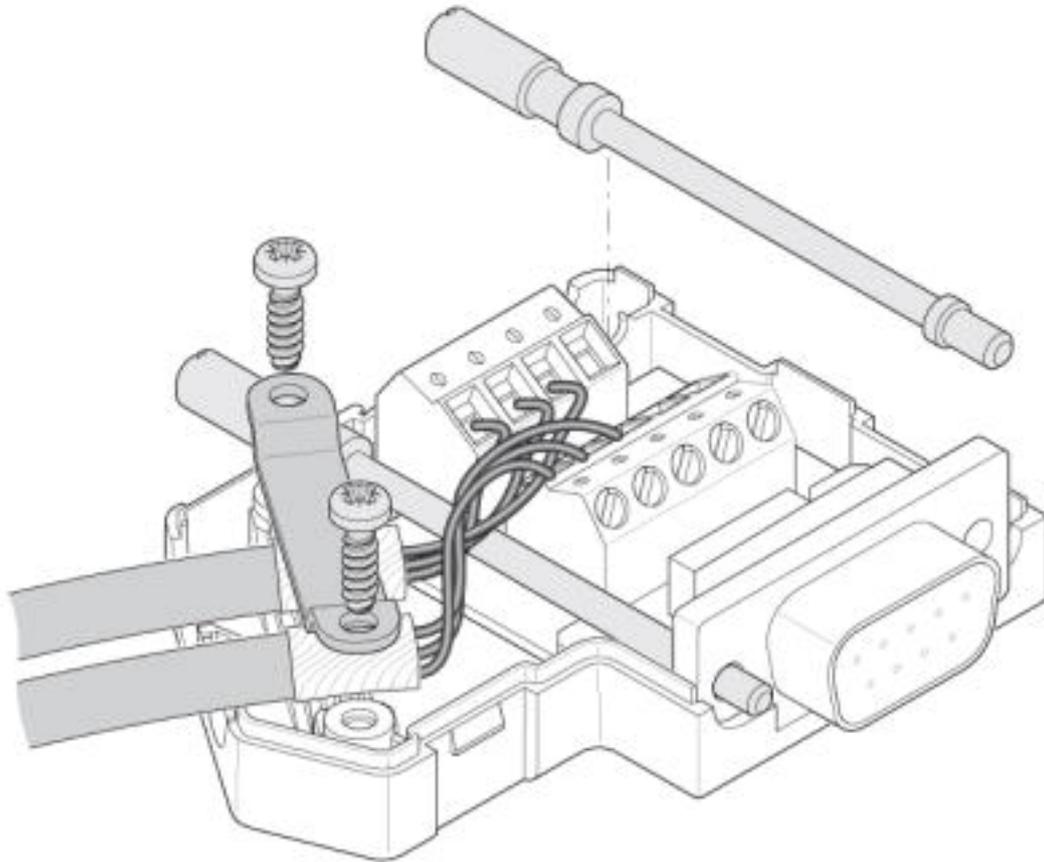
Schematic diagram



Stripping specifications

## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

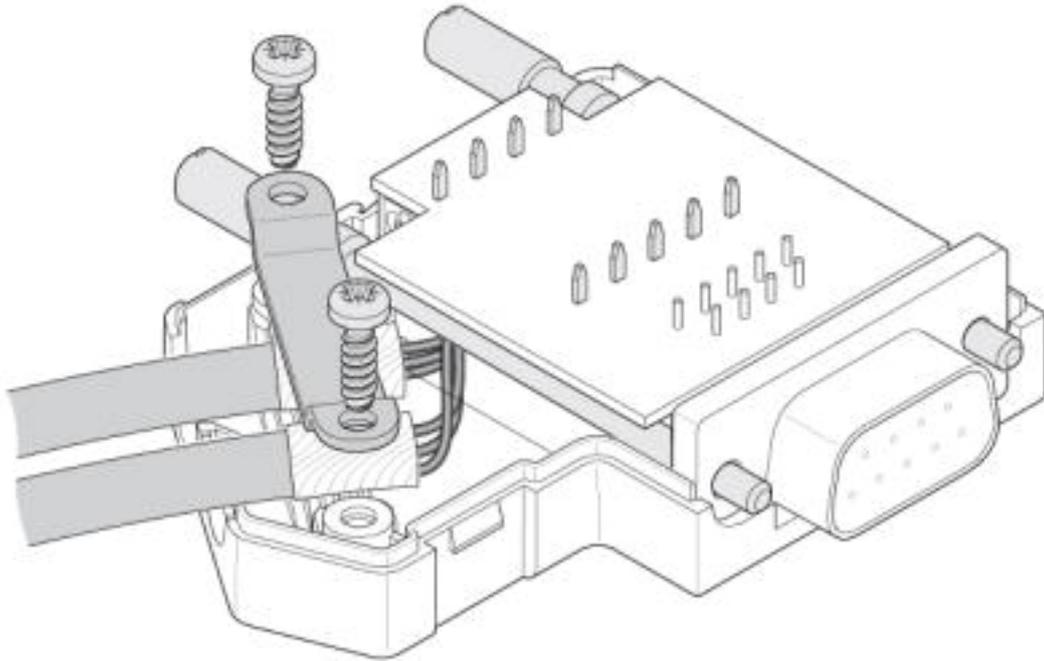
Schematic diagram



Left-hand side cable entry

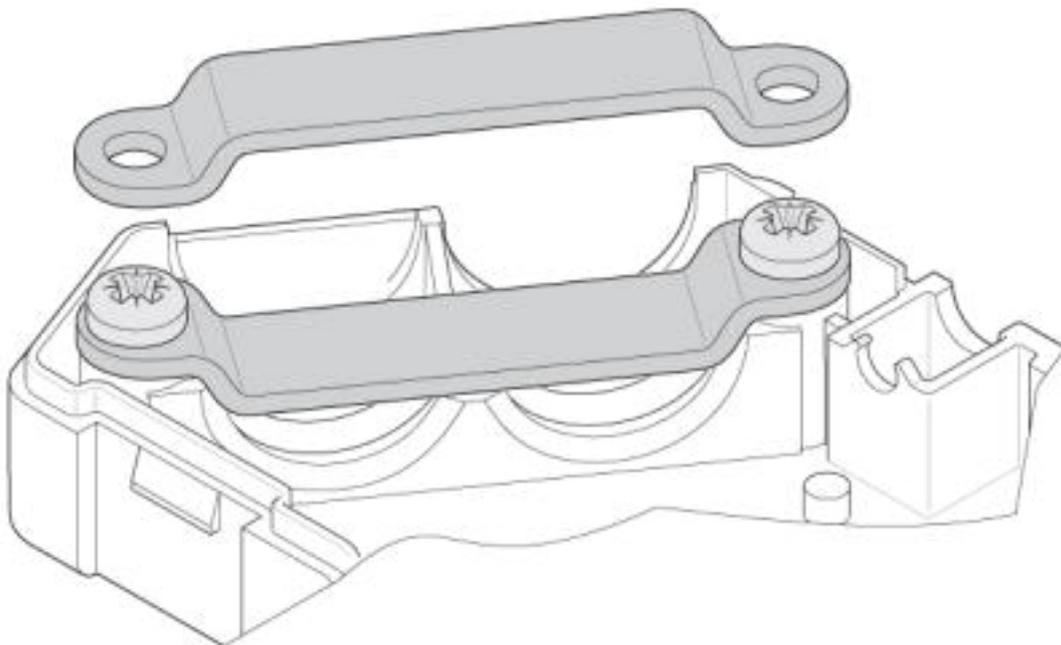
## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

Schematic diagram



Right-hand side cable entry

Schematic diagram



Clip bracket

# D-SUB bus connector - SUBCON-PLUS M1 - 2761826

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440302
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27440302
eCl@ss 8.0	27440302
eCl@ss 9.0	27440302

### ETIM

ETIM 2.0	EC001132
ETIM 3.0	EC001132
ETIM 4.0	EC001132
ETIM 5.0	EC001132
ETIM 6.0	EC001132
ETIM 7.0	EC001132

### UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Approvals

### Approvals

---

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

---

#### Ex Approvals

ATEX

---

### Approval details

# D-SUB bus connector - SUBCON-PLUS M1 - 2761826

## Approvals

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
---------------	--	---	---------------

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 238705
----------------	--	---	---------------

EAC		EAC-Zulassung
-----	--	---------------

cULus Recognized	
------------------	--

## Accessories

### Accessories

#### Data plug

D-SUB gender changer - VS-09-GC-BU/BU - 1688722



D-SUB contact insert, shell size 1, with nine signal contacts, type of contact socket, gender changer, fixing with 4-40 UNC thread

## Mounting material

Screw - SUBCON-SHORT-SCREW - 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

Screw - SUBCON-RAENDEL-SCREW-3MM - 2310387



Optional mounting screw, with knurl for mounting by hand or using a screwdriver, bladed, length: 56 mm, metric M3 thread

## D-SUB bus connector - SUBCON-PLUS M1 - 2761826

### Accessories

---

#### Screwdriver tools

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

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>