

SUBCON-PLUS F5 - D-SUB bus connector



2744102

<https://www.phoenixcontact.com/pc/products/2744102>

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D-SUB connector, 9-pos. female connector, two cable entries < 35°, bus system: Modbus, CECELEC, pin assignment: 1, 1, 2, 3, 6, 7; screw connection terminal blocks

Your advantages

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

Commercial data

Item number	2744102
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNC521
Catalog page	Page 378 (C-6-2017)
GTIN	4017918376055
Weight per piece (including packing)	78.2 g
Weight per piece (excluding packing)	60.8 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, 1, 2, 3, 6, 7 on two terminal blocks

Electrical properties

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

Connection data

D-SUB connection

Connection method	D-SUB socket
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PCB connection

Connection method	Screw connection
Stripping length	5 mm
Conductor cross section, rigid min.	0.14 mm ²
Conductor cross section, rigid max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	18

Interfaces

Bus system	Modbus, CELELEC
Signal	RS-485

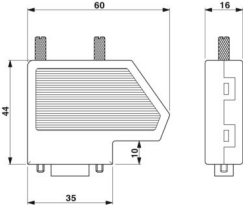
Dimensions

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Dimensional drawing	
	
Width	16 mm
Height	44 mm
Length	60 mm

Material specifications

Material (Housing)	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

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
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)

Approvals

ATEX	
Identification	Ex 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

Standards and regulations

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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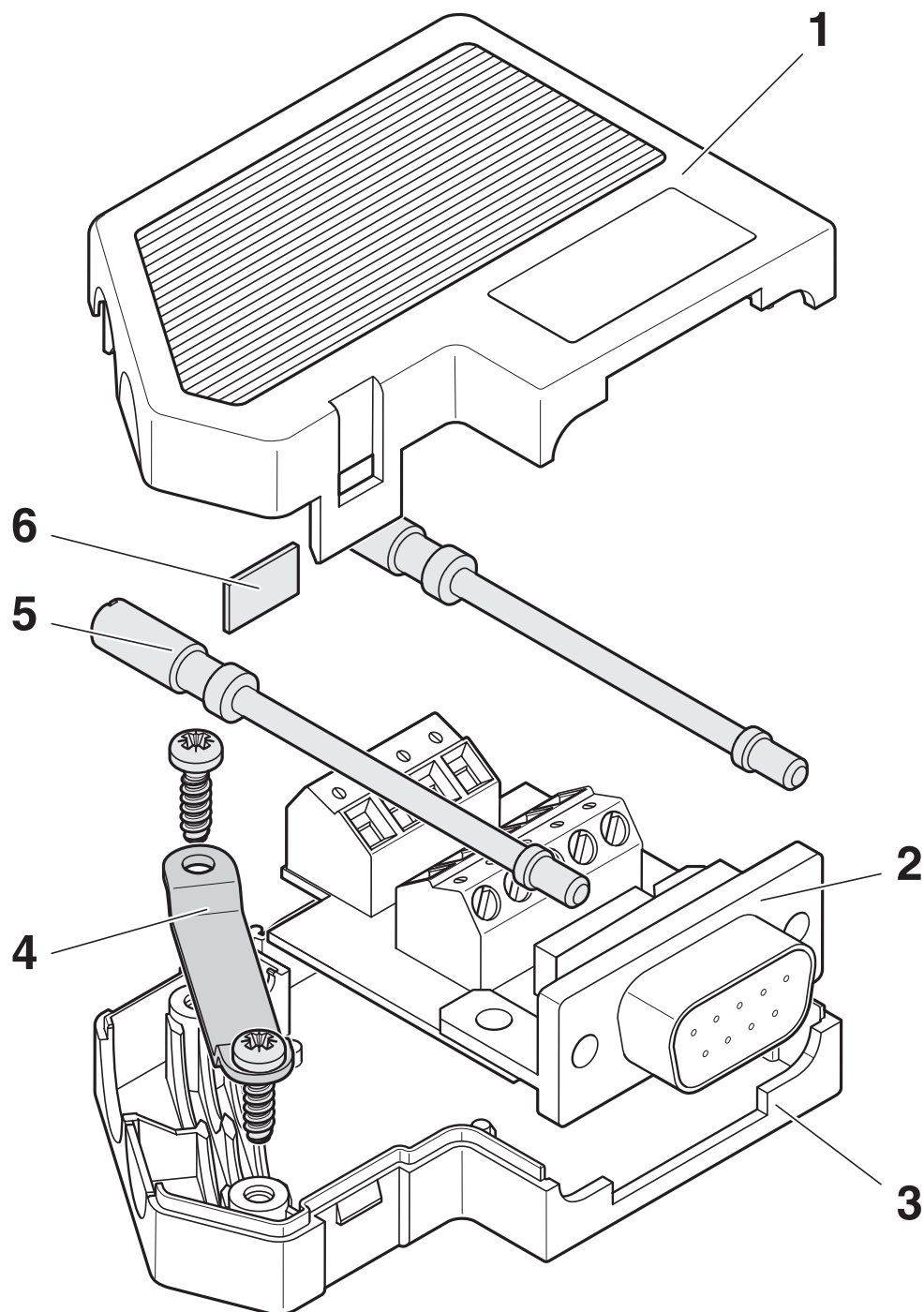
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Drawings

Schematic diagram



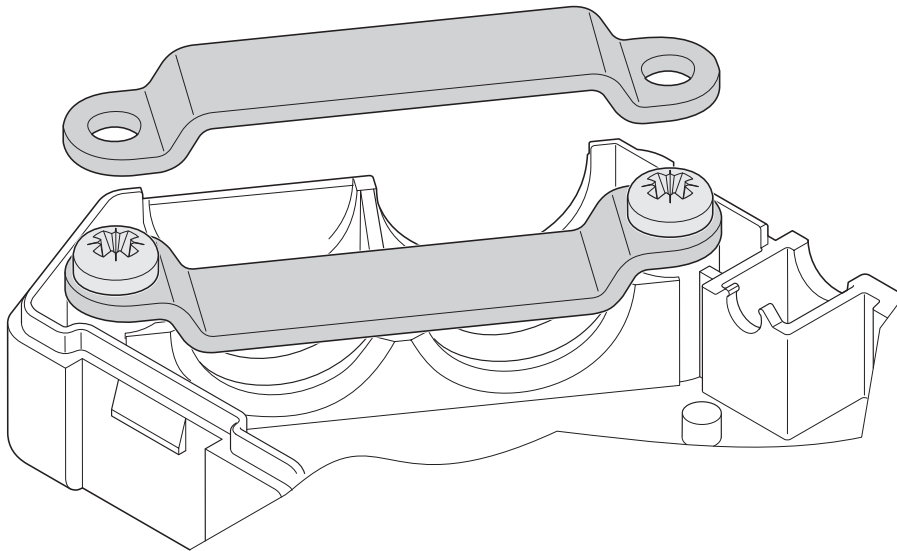
Function elements

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Schematic diagram



Clip bracket

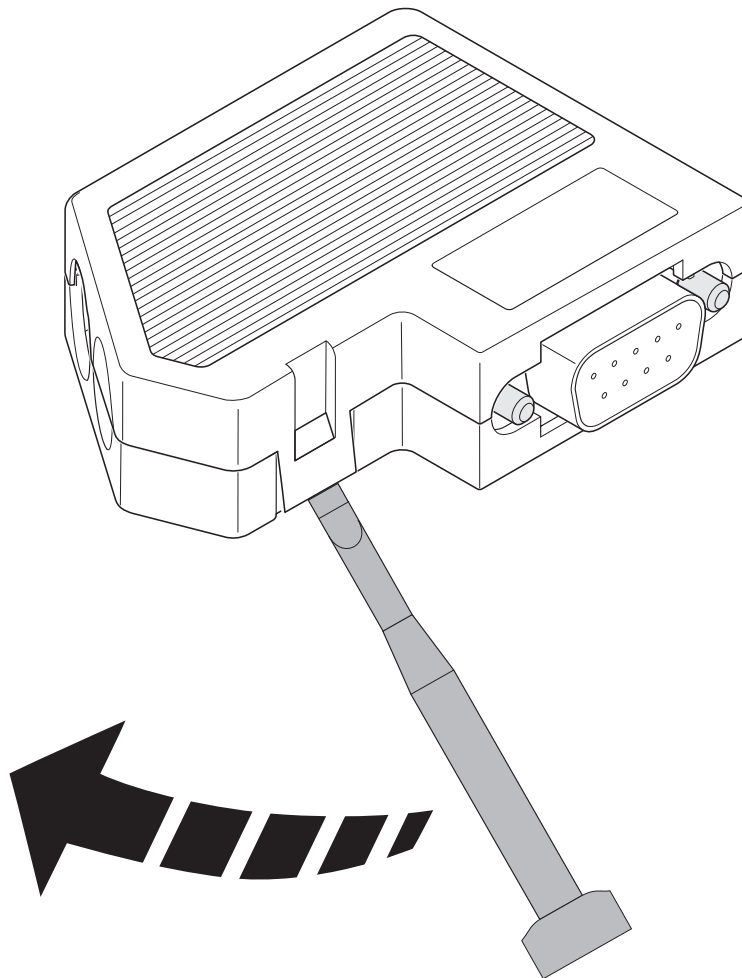
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Schematic diagram



Opening the housing

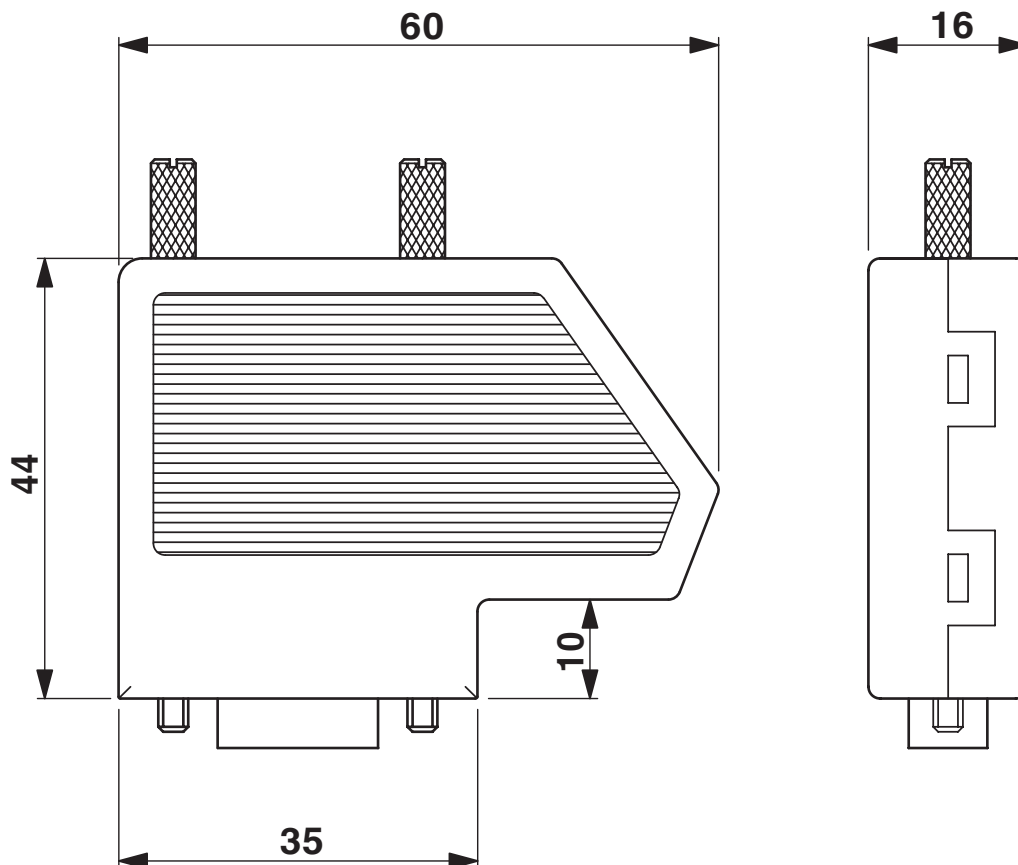
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Dimensional drawing



Dimensional drawing SUBCON-PLUS...

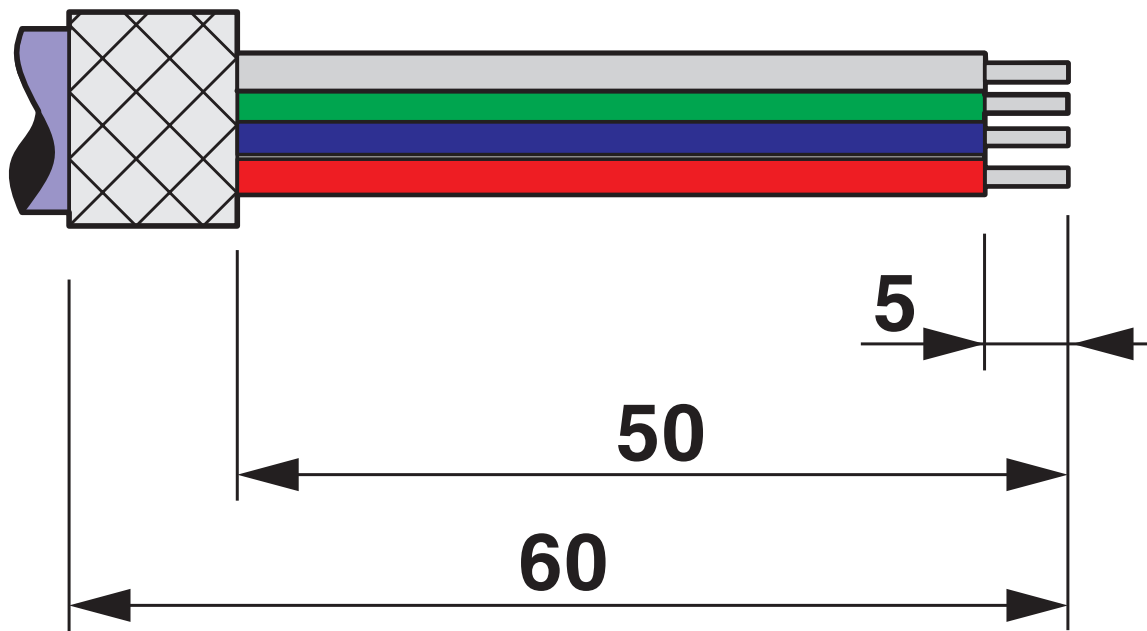
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Schematic diagram



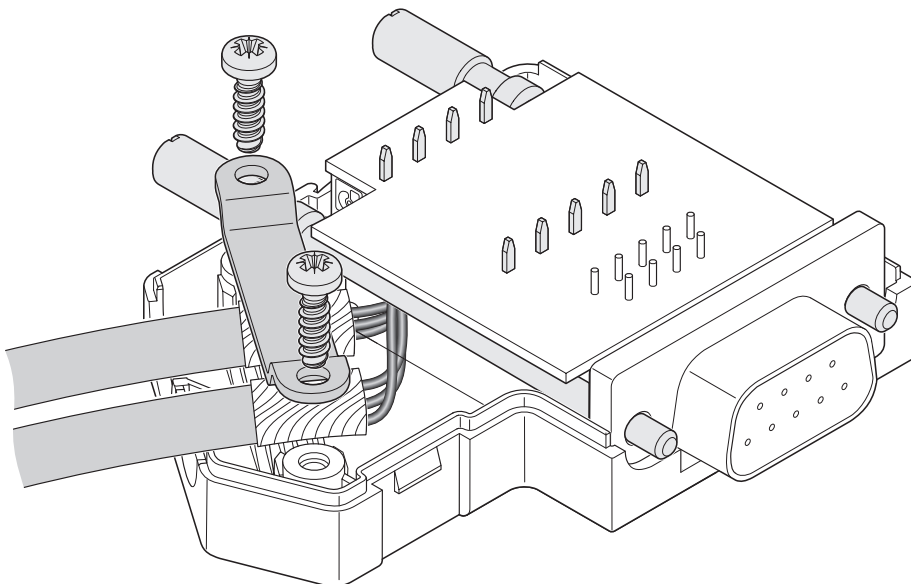
Stripping specifications

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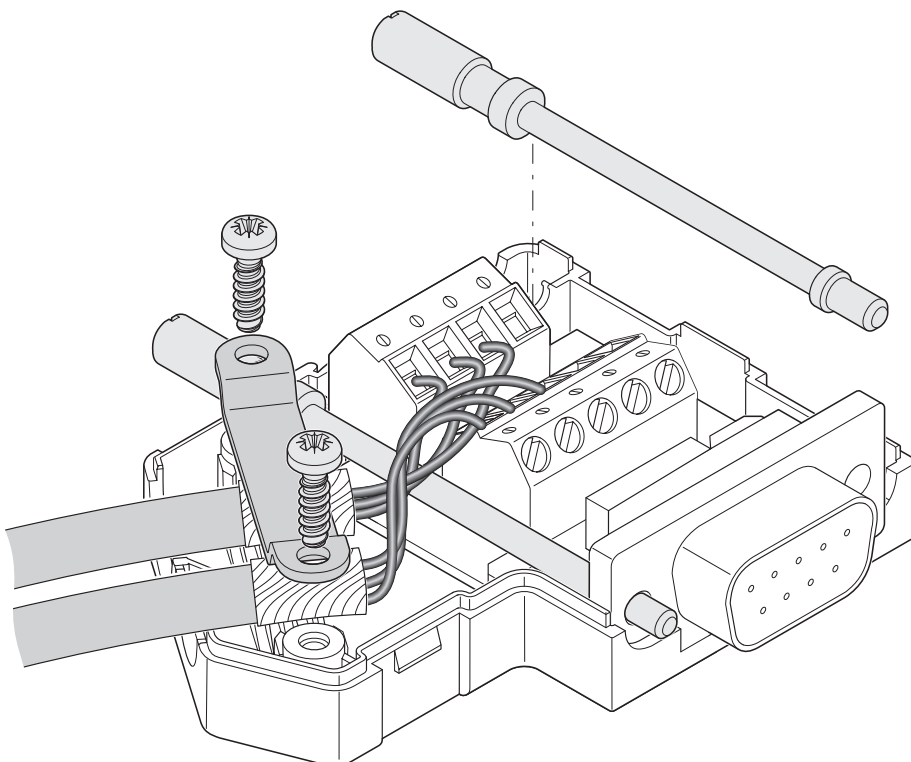
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Schematic diagram



Right-hand side cable entry

Schematic diagram



Left-hand side cable entry

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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

SUBCON-SHORT-SCREW - Screw

2799694

<https://www.phoenixcontact.com/pc/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

SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/pc/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-ST/ST - D-SUB gender changer

1652651

<https://www.phoenixcontact.com/pc/products/1652651>

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



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