

# SUBCON-PLUS F5 - D-SUB bus connector



2744102

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

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D-SUB connector, 9-pos. female connector, two cable entries < 35°, bus system: Modbus, CEGELEC, 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
Note	Made to order (non-returnable)
Sales key	DN10
Product key	DNC521
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 <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>
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

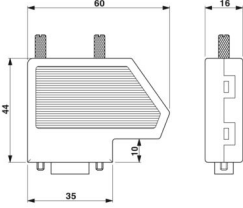
### Dimensions

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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
Fixing screws	4-40 UNC
Tightening torque	0.4 Nm

## 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	⊕ 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

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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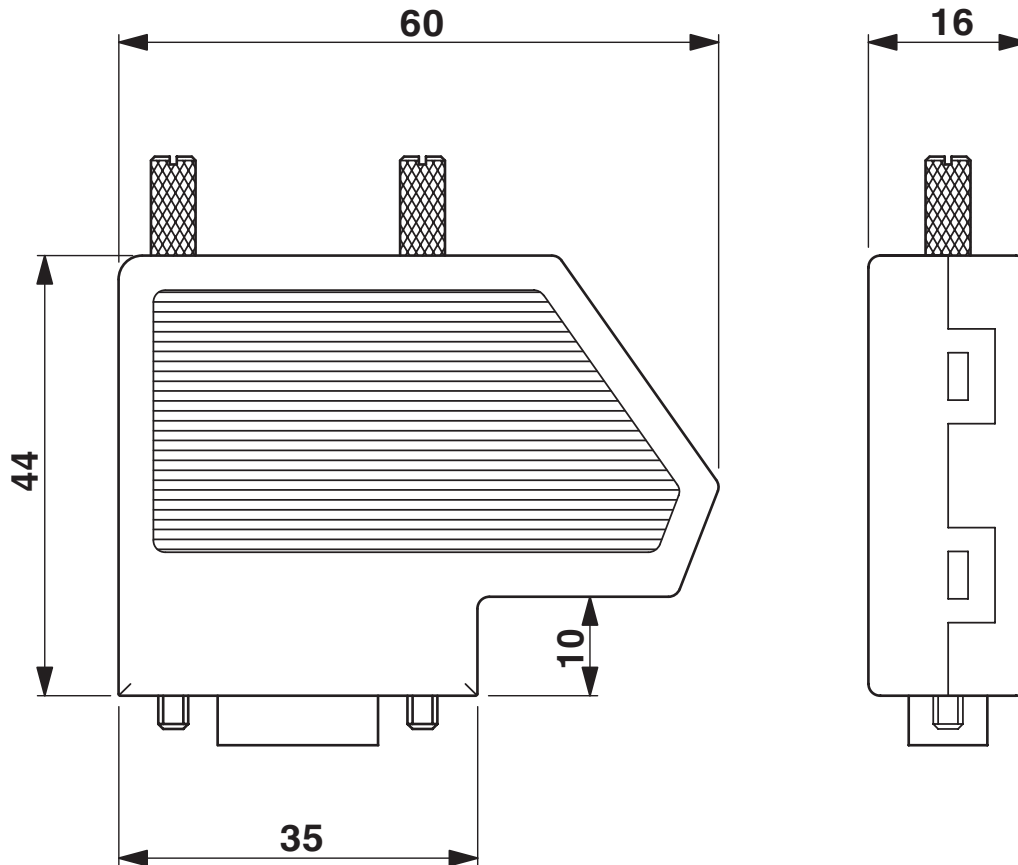
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## Drawings

Dimensional drawing



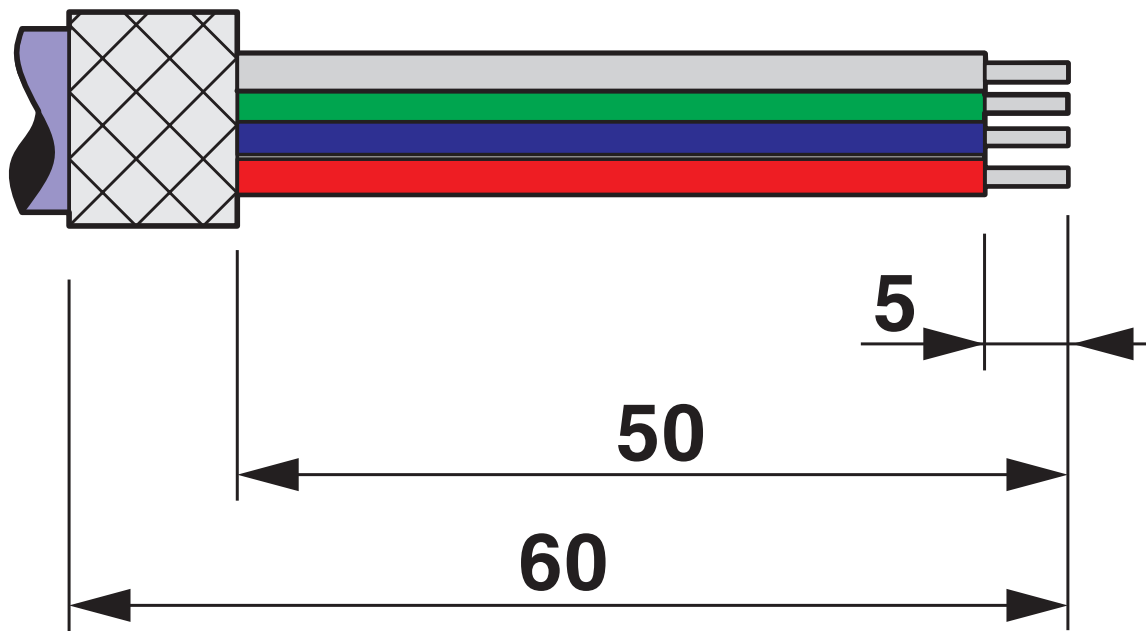
Dimensional drawing SUBCON-PLUS...

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Schematic diagram



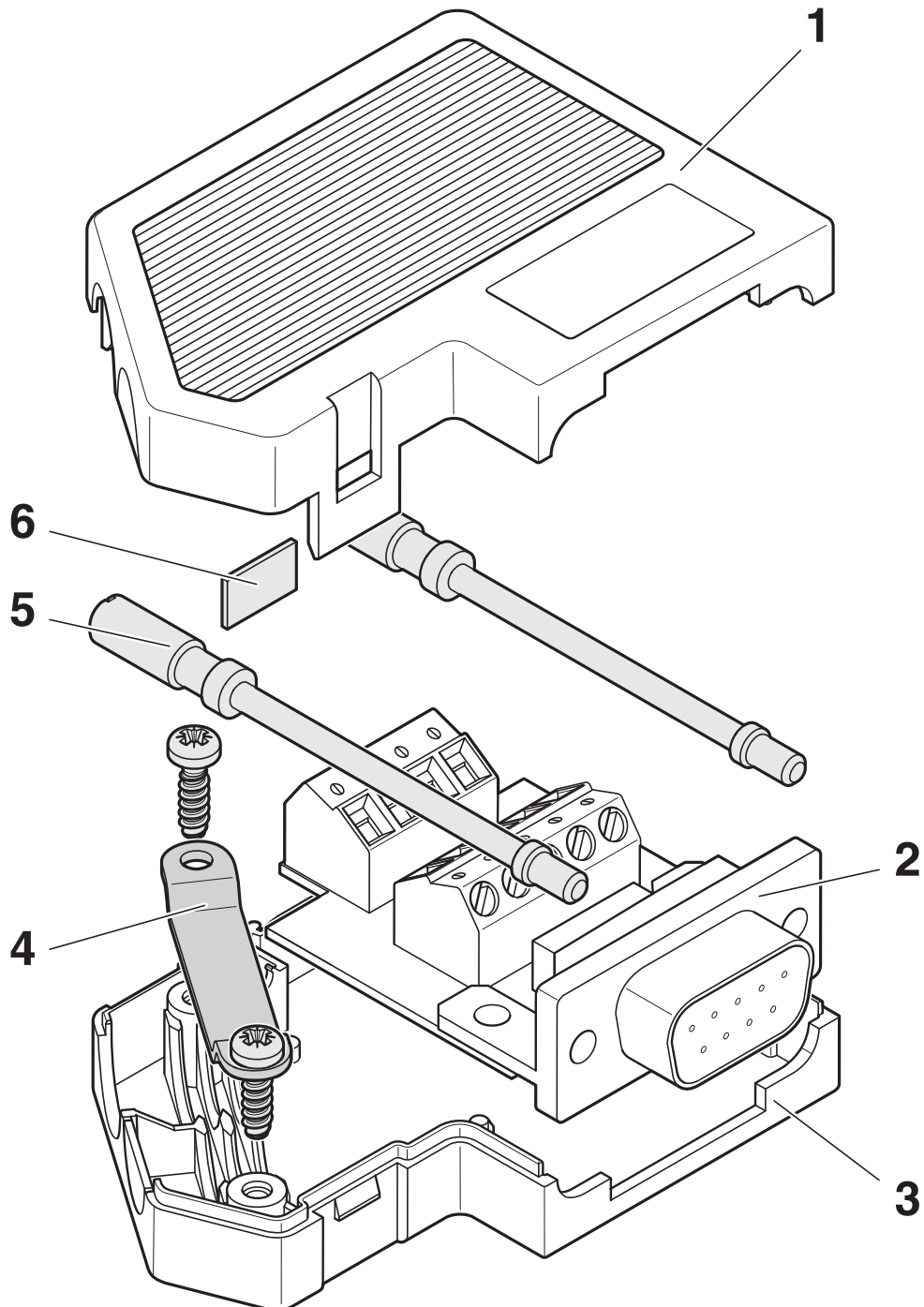
Stripping specifications

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Schematic diagram



Function elements

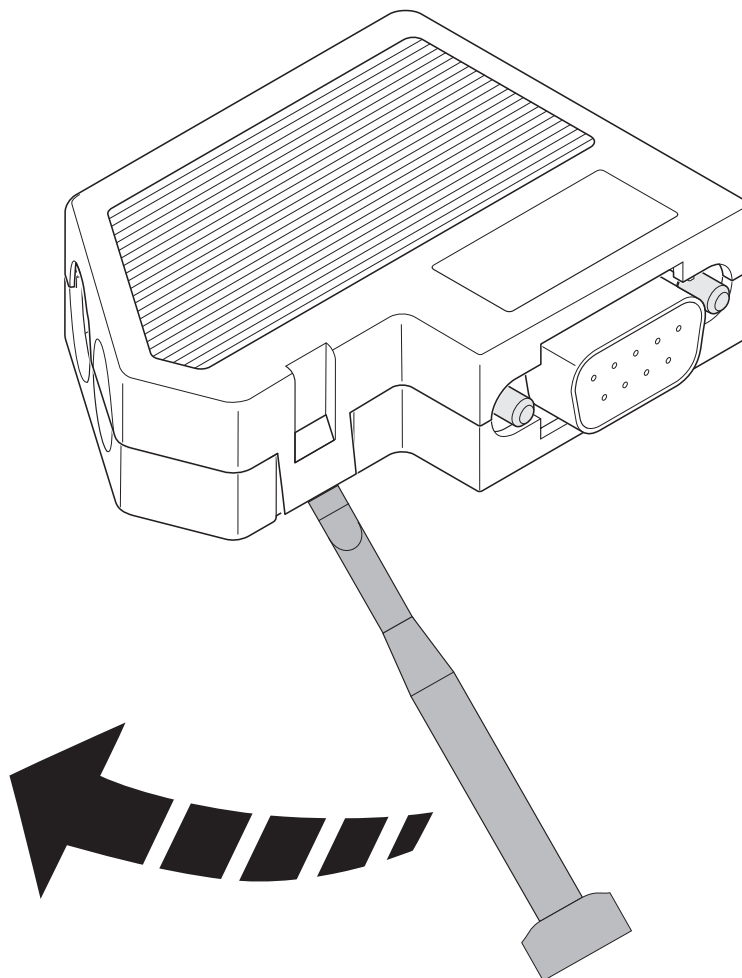
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Schematic diagram



Opening the housing

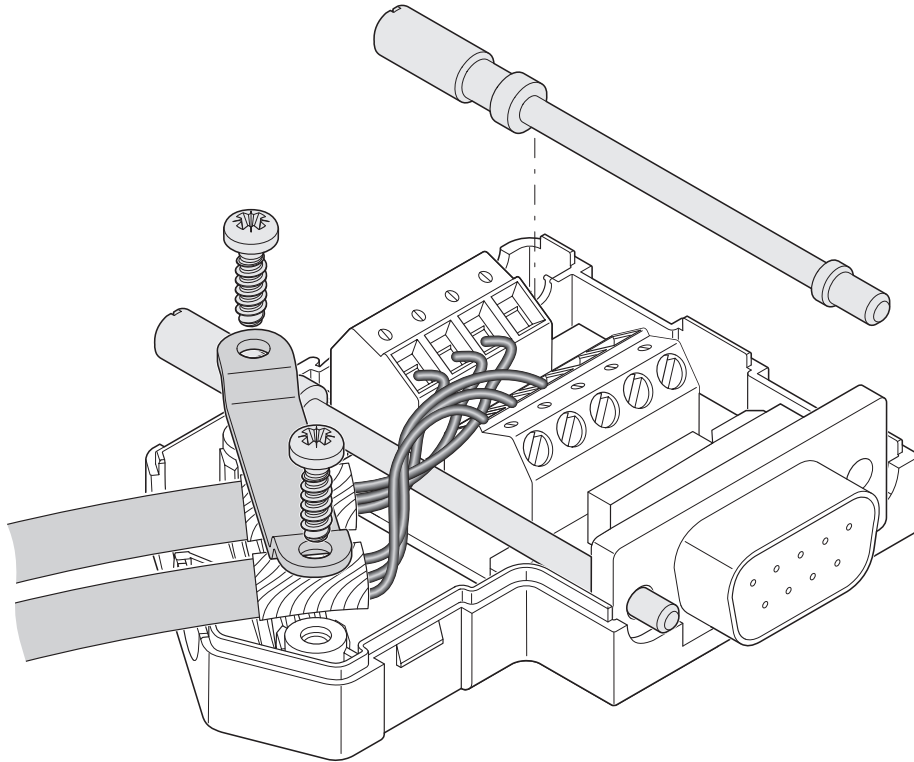
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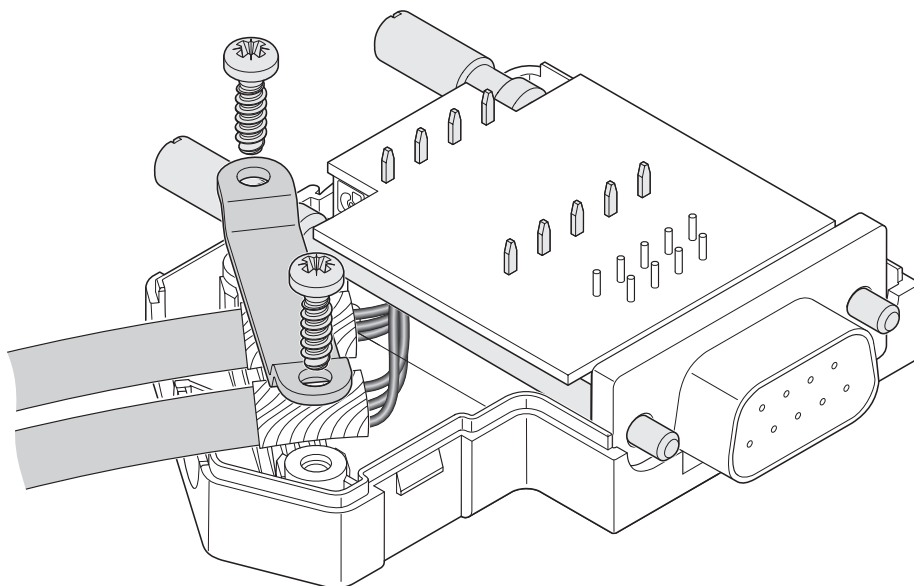
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Schematic diagram



Left-hand side cable entry

Schematic diagram



Right-hand side cable entry

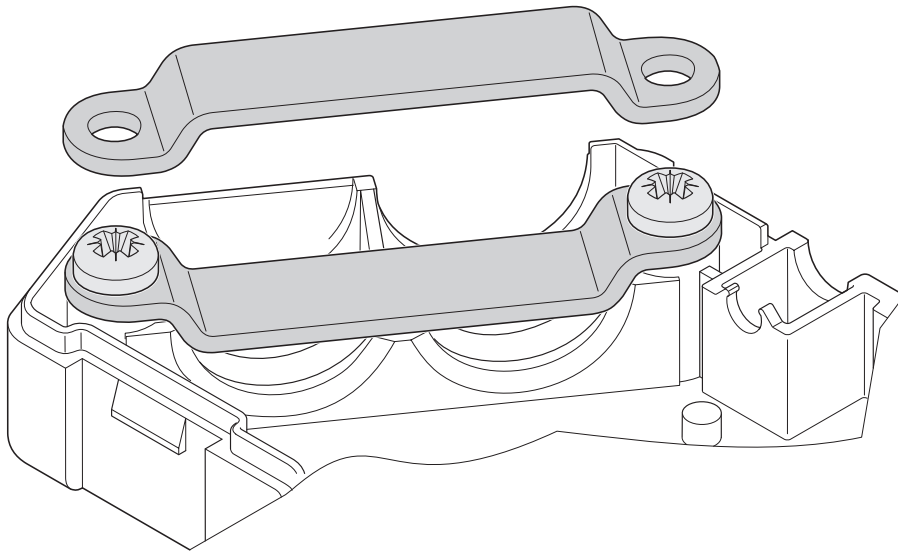
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Schematic diagram



Clip bracket

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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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