

# SUBCON-PLUS F1 - D-SUB bus connector



2744267

<https://www.phoenixcontact.com/us/products/2744267>

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D-SUB connector, 9-pos. female 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; 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
- Easy assembly thanks to knurled screws
- Flexibility in terms of cable entry selection
- High level of EMC
- Assembly under field conditions
- High transmission speed
- Can be used universally
- Change to the D-SUB orientation through a reversible connection block



# RS-485



## Commercial data

Item number	2744267
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10

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Product key	DNC521
GTIN	4017918170783
Weight per piece (including packing)	73.2 g
Weight per piece (excluding packing)	62.6 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 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>
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
Tightening torque	0.22 Nm ... 0.25 Nm

### Interfaces

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

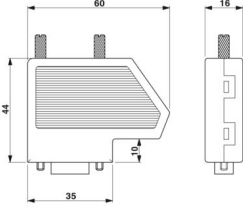
### Dimensions

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Dimensional drawing	
Width	16 mm
Height	44 mm
Length	60 mm

## Material specifications

Color (Housing)	white aluminium (RAL 9006)
Material (Housing)	ABS (metal-plated)

## 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

## Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Shock (operation): 15g, 11 ms period, half-sine shock pulse

## 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)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

## Approvals

### ATEX

Identification	Ⓔ II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF14ATEX2744267X

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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	VDMA 24364:2018-05
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## Drawings

Dimensional drawing



Dimensional drawing SUBCON-PLUS...

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Schematic diagram



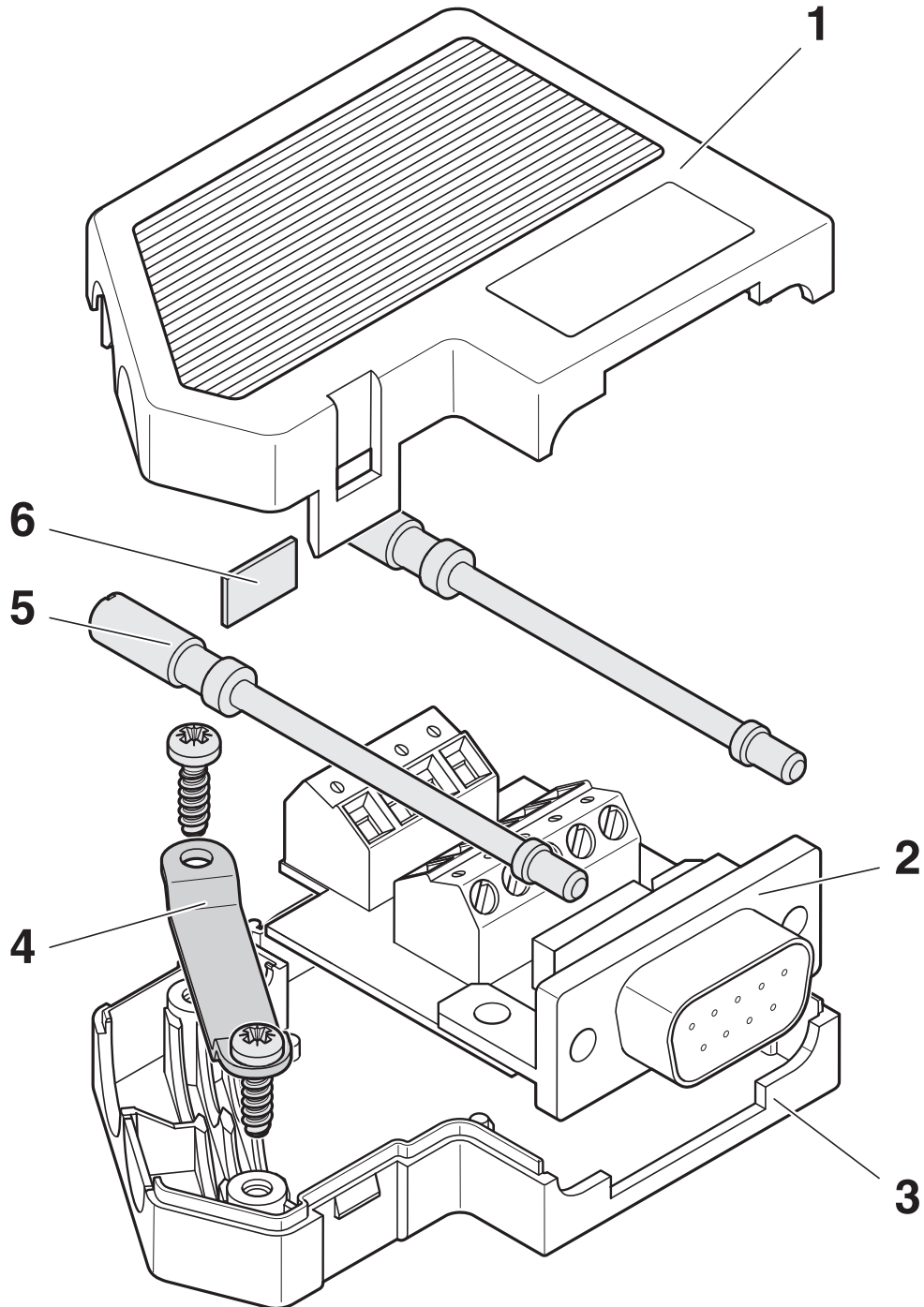
Stripping specifications

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Schematic diagram



Function elements

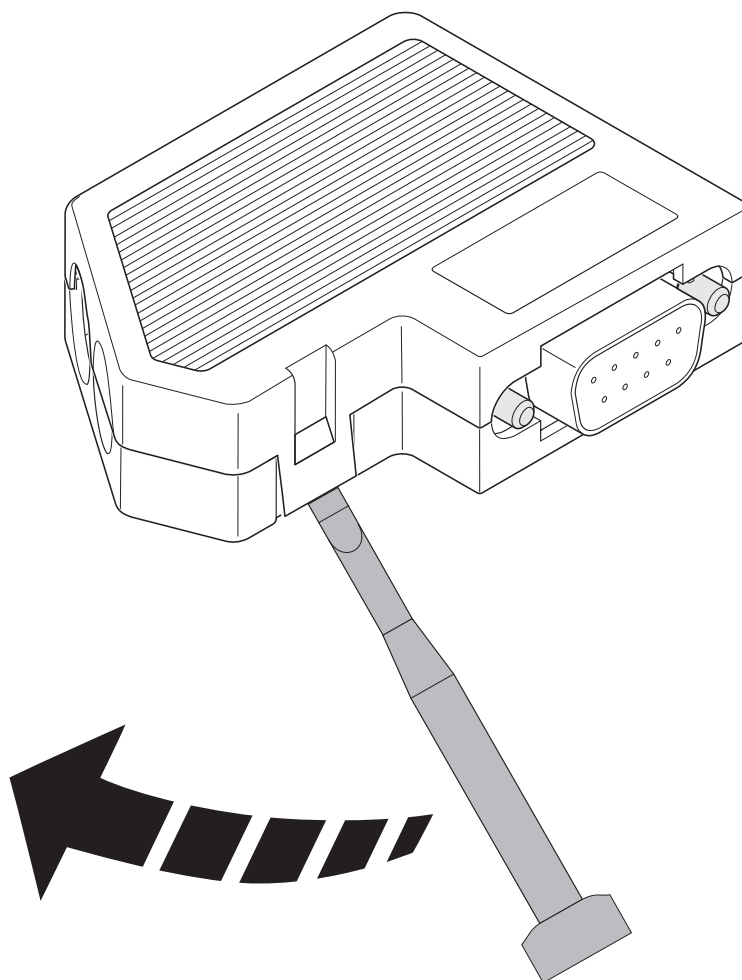
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Schematic diagram



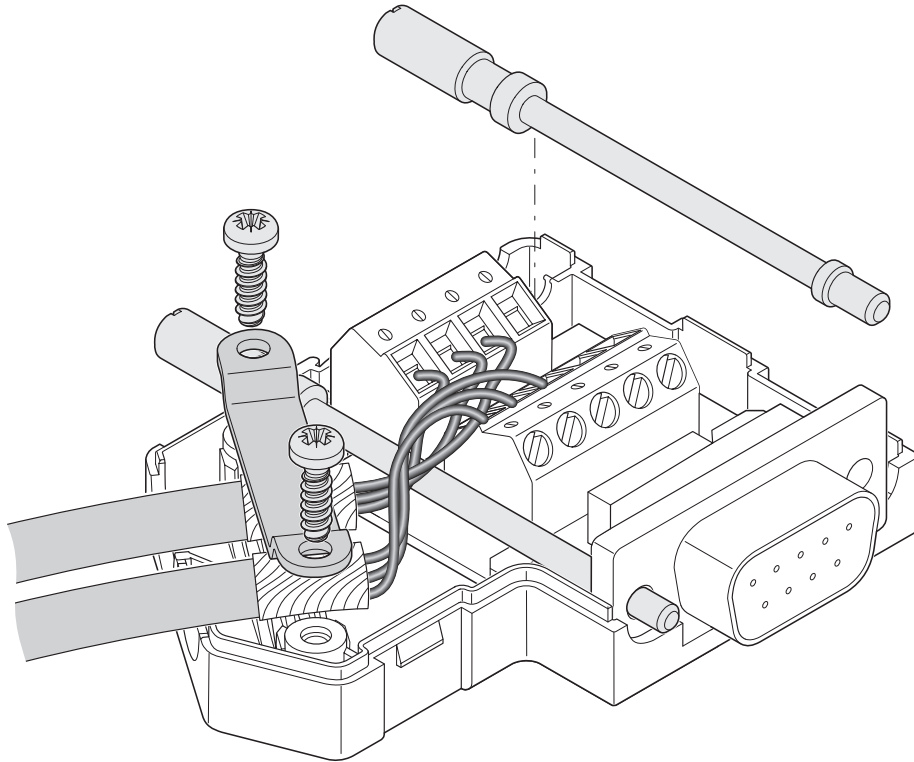
Opening the housing

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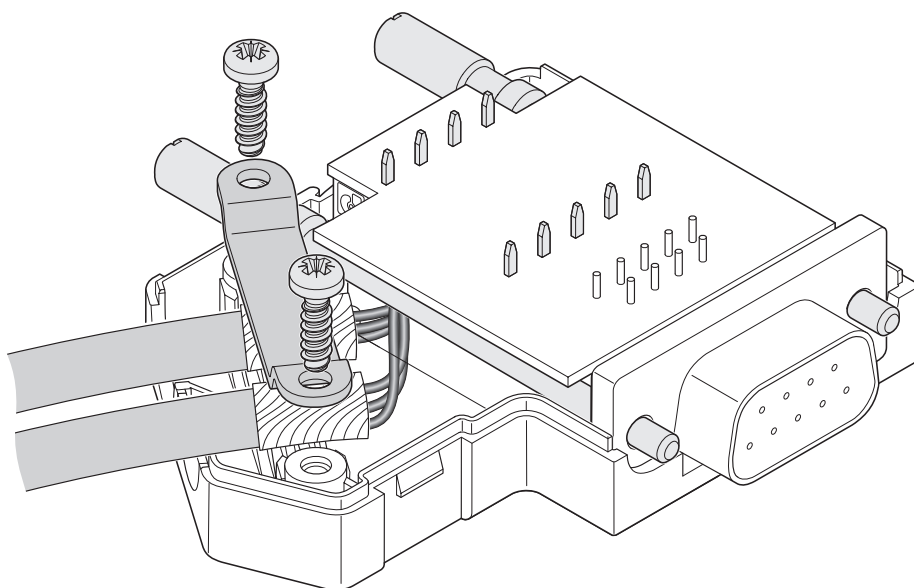
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Schematic diagram



Left-hand side cable entry

Schematic diagram



Right-hand side cable entry

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Schematic diagram



Clip bracket

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## Approvals

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**cULus Recognized**  
Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0	27440302
ECLASS-15.0	27440322

### ETIM

ETIM 10.0	EC001132
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.407 kg CO2e
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