

# SUBCON-PLUS 9/F - D-SUB bus connector



2744241

<https://www.phoenixcontact.com/us/products/2744241>

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D-SUB connector, 9-pos. female connector, two 35° cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to one screw connection terminal block



## 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
- 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



# RS-485



## Commercial data

Item number	2744241
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC521

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GTIN	4017918415631
Weight per piece (including packing)	57.61 g
Weight per piece (excluding packing)	59.77 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	All connections are 1:1 on the screw terminal block

### 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	Universal type for all systems
Signal	RS-485
	RS-232
	RS-422

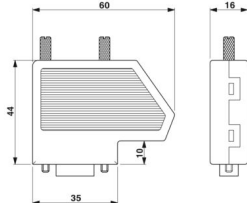
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## Dimensions

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	: 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 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

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Identification	⊕ II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF15ATEX2744241X
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	VDMA 24364:2018-05
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## Drawings

Dimensional drawing



Dimensional drawing SUBCON-PLUS...

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Schematic diagram



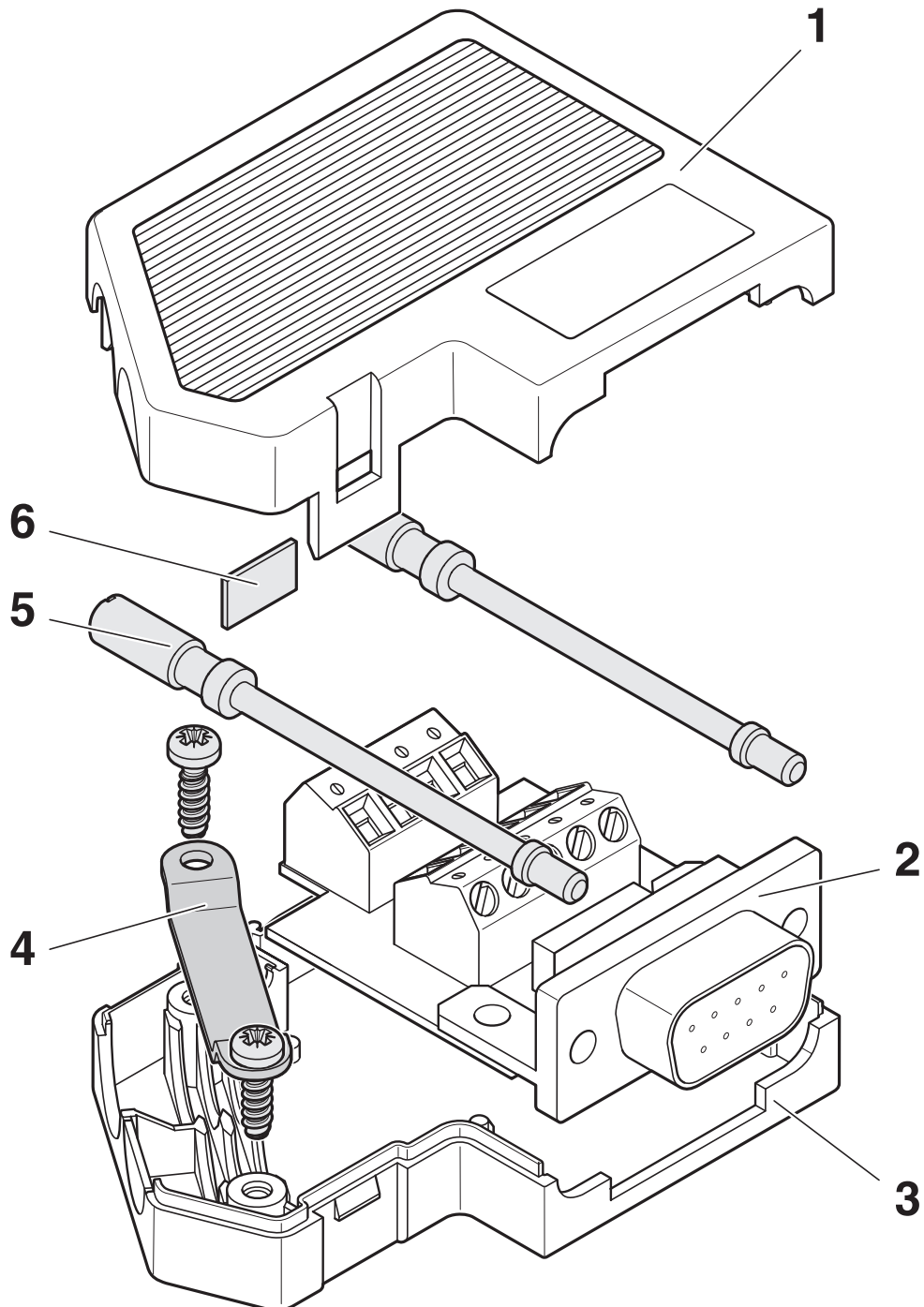
Stripping specifications

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Schematic diagram



Function elements

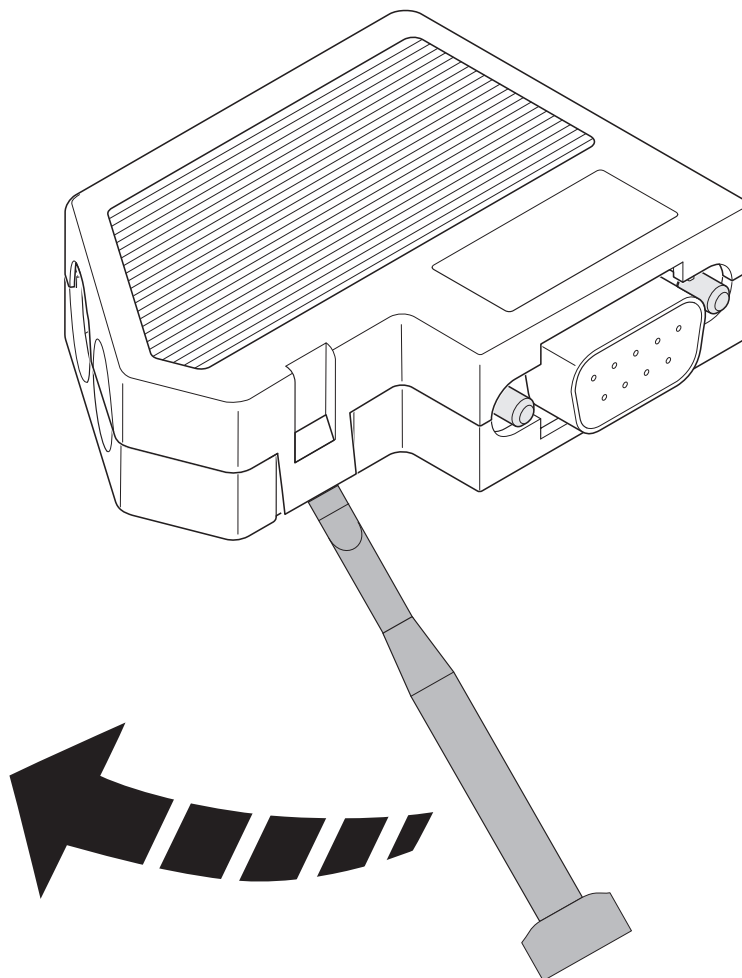
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Schematic diagram



Opening the housing

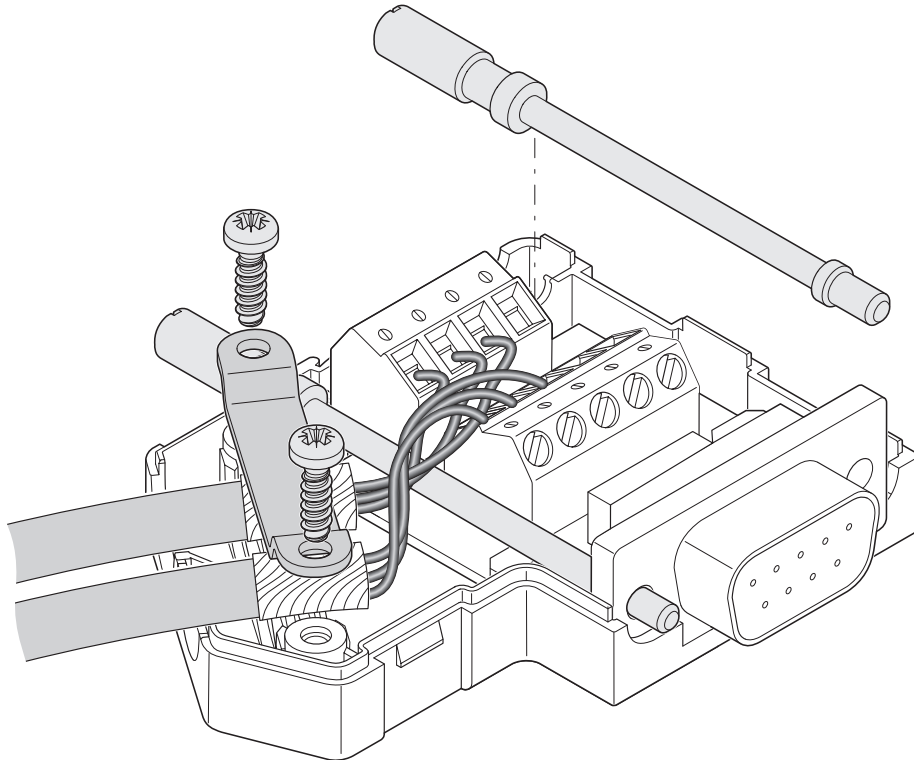
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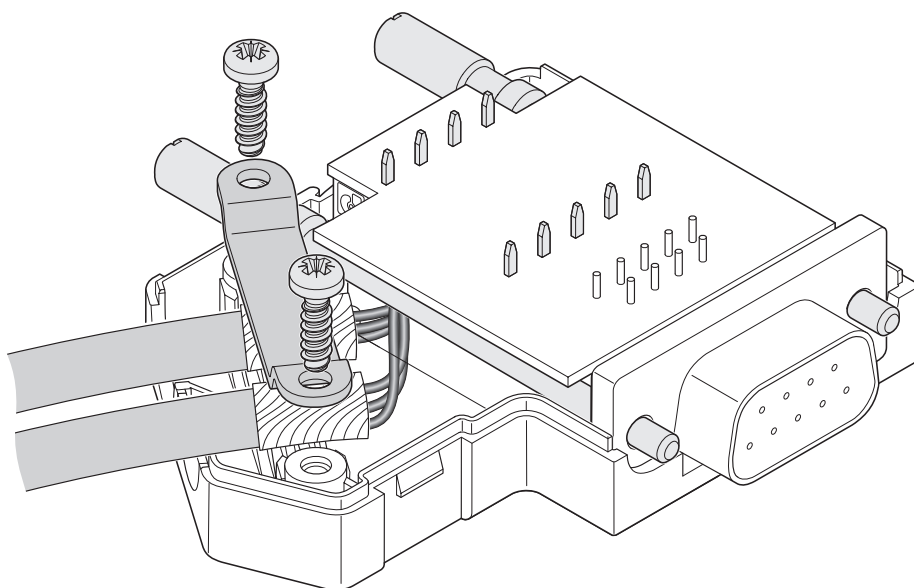
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Schematic diagram



Left-hand side cable entry

Schematic diagram



Right-hand side cable entry

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Schematic diagram



Clip bracket

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## 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	0.359 kg CO2e
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