

# SUBCON 9/M-SH - D-SUB bus connector



2761509

<https://www.phoenixcontact.com/us/products/2761509>

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

## Product description

The 9-pos. version of the SUBCON-... connector range is not just suitable for INTERBUS, but is positively ideal. A whole host of further applications are opened up by having all the connections assigned to their own 1 mm<sup>2</sup> screw terminal block. The range covers SUBCON plugs for point-to-point connections with a cable infeed in 9, 15 and 25-pos. male or female versions. The optional fastening screw SUBCON-SHORT-SCREW is available as an accessory for narrow installation conditions. The screw is completely integrated into the housing by not having a knurl.

## Your advantages

- Easy assembly thanks to knurled screws
- Can be used universally
- Flexibility in terms of cable entry selection
- Assembly under field conditions
- High level of EMC
- Change to the D-SUB orientation through a reversible connection block



**RS-485**



**RS-232**

**RS-422**

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## Commercial data

Item number	2761509
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC511
GTIN	4017918064747
Weight per piece (including packing)	45.59 g
Weight per piece (excluding packing)	30.42 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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#### 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 connector
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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

Signal	Modbus
	RS-232

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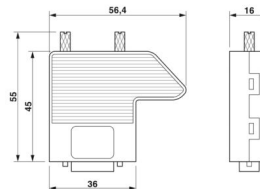
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RS-422

RS-485

## Dimensions

Dimensional drawing



Width

16 mm

Height

55 mm

Length

56.5 mm

## Material specifications

Material (Housing)

ABS (metal-plated)

## Cable/line

External cable diameter

4 mm ... 10 mm (Incoming bus line)

## 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

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Identification	Ⓜ II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF15ATEX2761499X
Note	Please follow the special installation instructions in the documentation!

## UKEX

Identification	Ⓜ II 3 G Ex ec IIC T4 Gc
Certificate	PxCIMA22UKEX2761499X

## 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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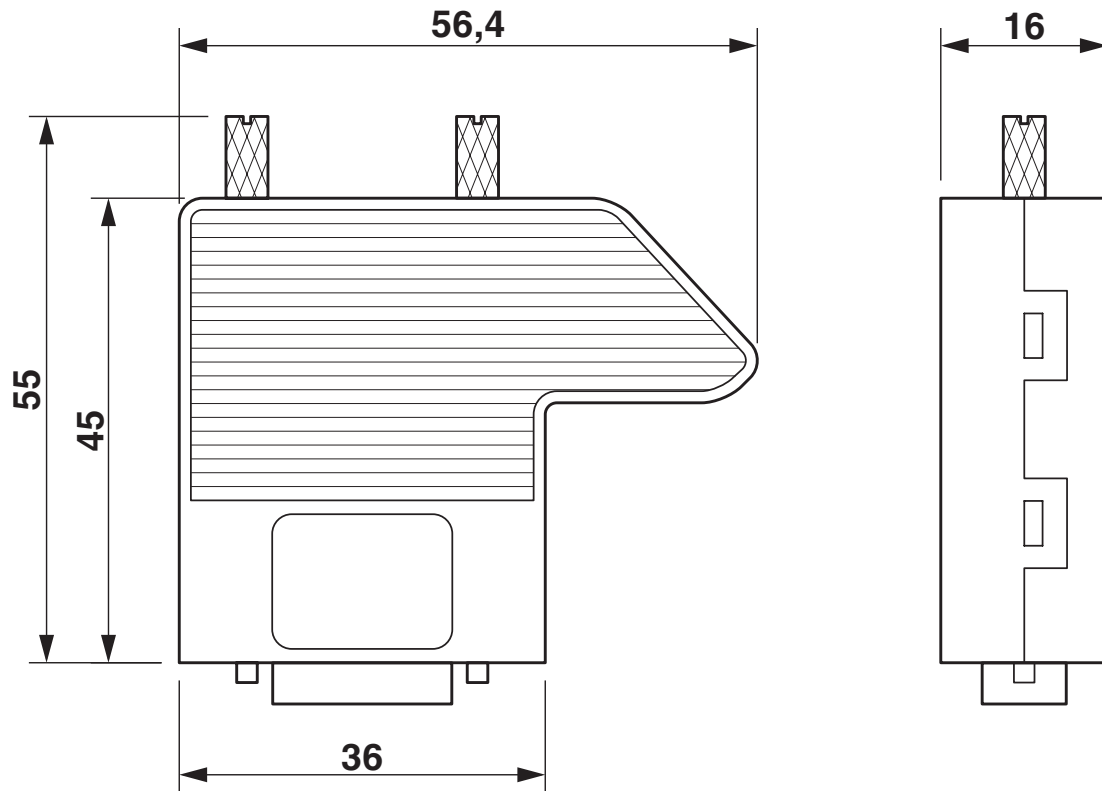
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## Drawings

Dimensional drawing



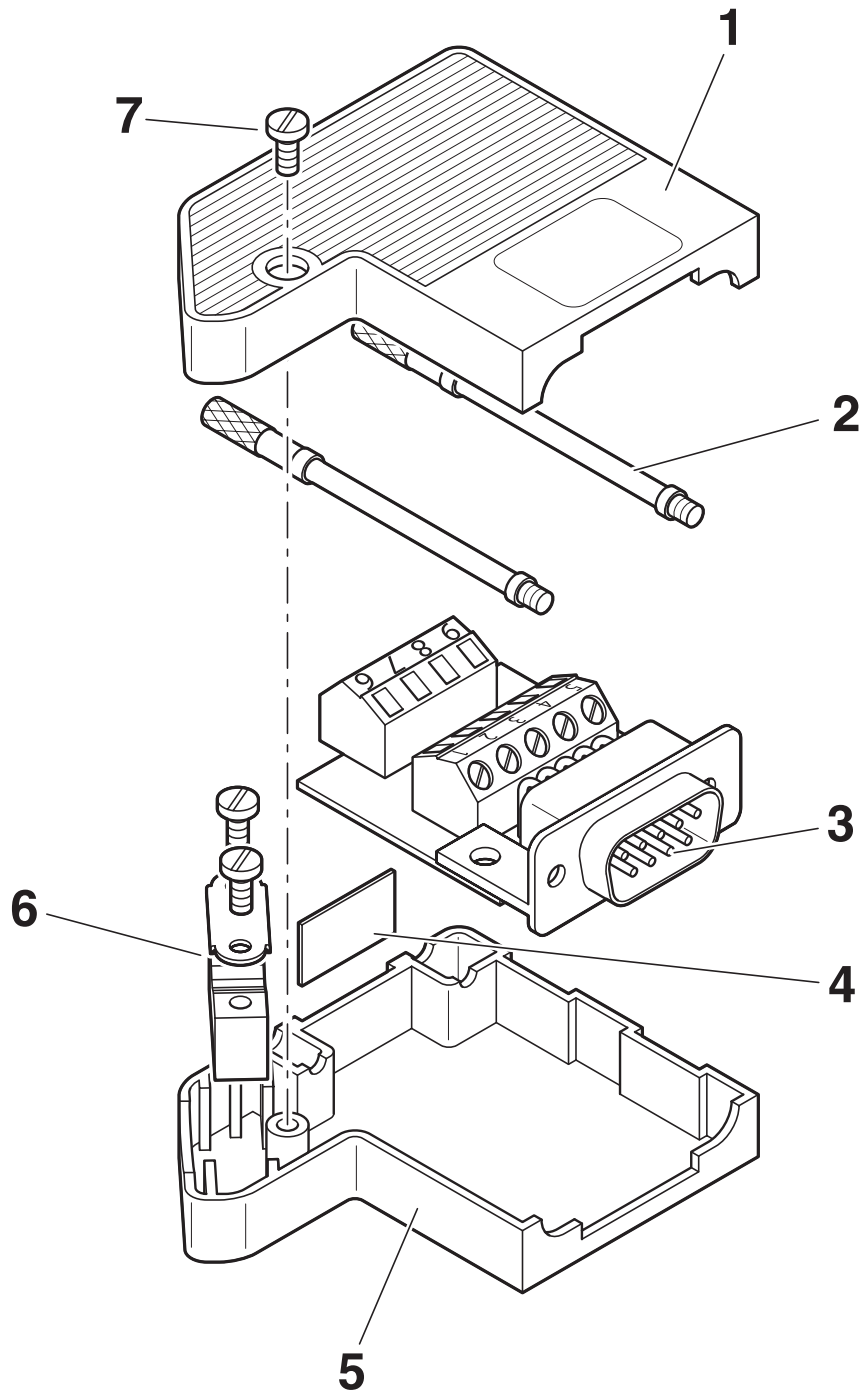
Dimensional drawing

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Schematic diagram



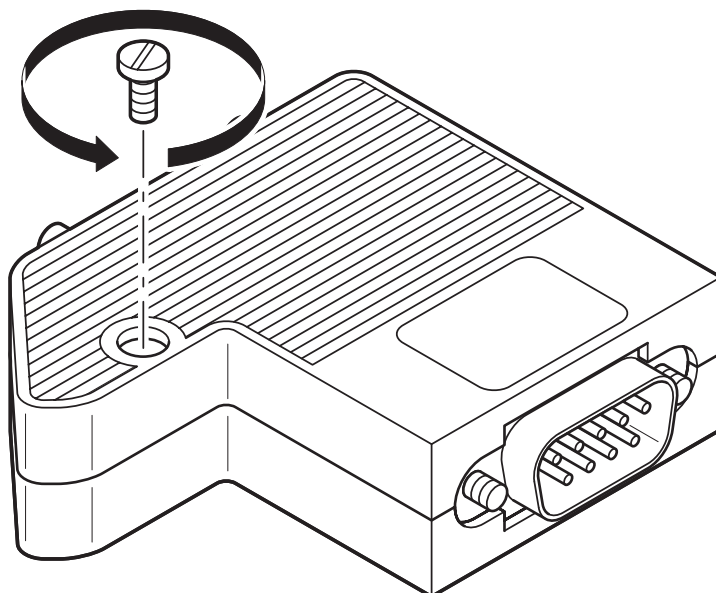
Function elements

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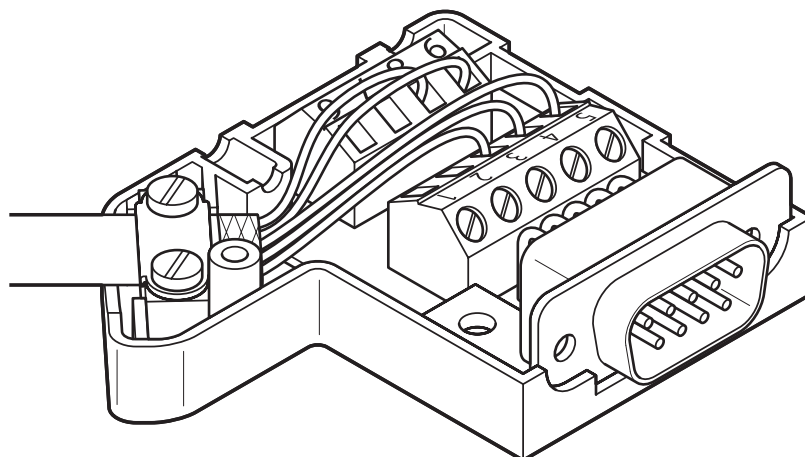
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Schematic diagram



Opening the housing

Schematic diagram



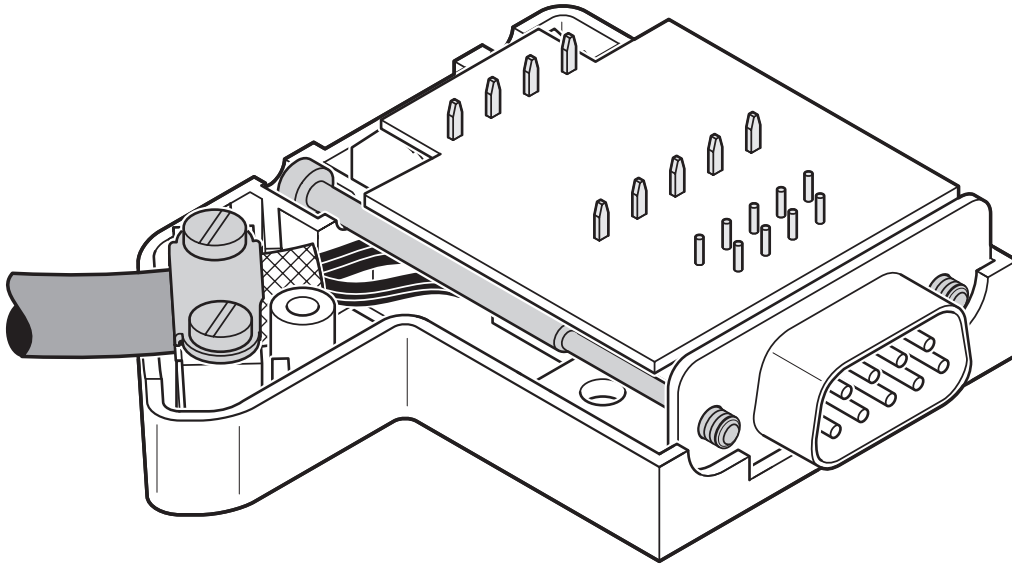
Left-hand side cable entry

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Schematic diagram



Right-hand side cable entry

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## Approvals

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**CSA**

Approval ID: 2437602

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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	19.86 kg CO2e
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