

SUBCON-PLUS-CAN - D-SUB bus connector



2744694

<https://www.phoenixcontact.com/us/products/2744694>

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D-SUB connector, 9-pos. socket, two 35° cable outlets to one terminal block row, bus system: CAN, CANopen®, SafetyBUS p up to 1 Mbps, termination resistor can be switched on via slide switch, pin assignment: 2, 3, 7; screw connection terminal blocks

Product description

The SUBCON-PLUS-CAN/... D-SUB series is specifically designed for use in CAN systems. Under field conditions, it enables the quick and easy connection of the incoming and outgoing bus line. The terminating resistor is already integrated in all versions. It can be connected externally by means of a slide switch. At the same time, the outgoing bus segment is switched off. This makes it easy to start up segment by segment while incorrect terminations are avoided. A special feature of the 35° angled connector is that the internal connection unit can be turned round. Whether the cable is to be inserted from the right or left can thus be decided on-site.

Your advantages

- Separate terminal blocks for bus cables
- High transmission speed
- Segment-by-segment startup
- Flexibility in terms of cable entry selection
- Assembly under field conditions
- High level of EMC
- Suitable for bus cables according to CiA Draft Recommendation 303-1 with an outside diameter of 8 mm
- Termination resistor can be connected
- Change to the D-SUB orientation through a reversible connection block

Commercial data

Item number	2744694
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC541
GTIN	4017918821760
Weight per piece (including packing)	52.26 g
Weight per piece (excluding packing)	30.31 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
Utilization restriction	

CCCex note

Use in potentially explosive areas is not permitted in China.

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

2, 3, 7

Electrical properties

Nominal voltage U_N	5 V
Nominal current I_N	100 mA
Transmission medium	Copper

Connection data

D-SUB connection	
Connection method	D-SUB socket

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
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

Interfaces

Bus system	CAN, CANopen, SafetyBus-P
Signal	CAN
	CANopen®

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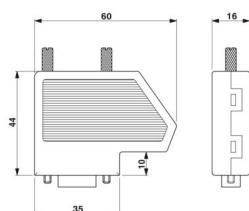
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SafetyBUS p

Dimensions

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

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	IP40
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	Ex II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF14ATEX2744694X
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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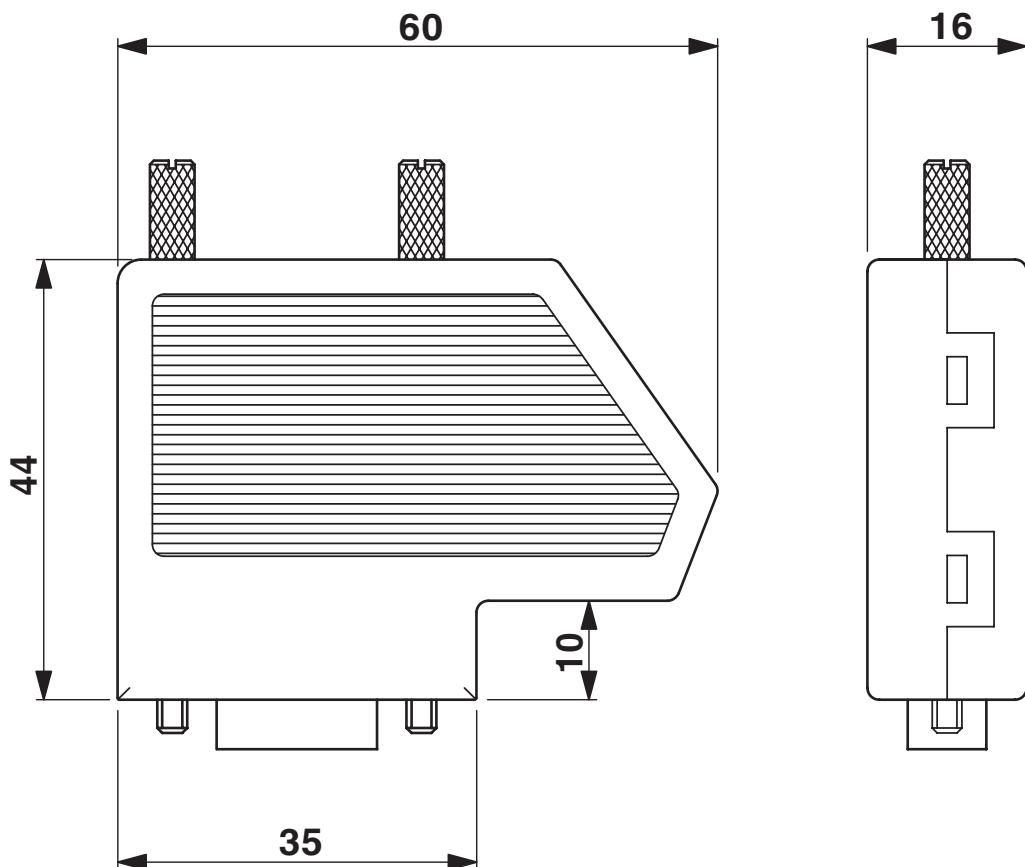
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Drawings

Dimensional drawing



Dimensional drawing

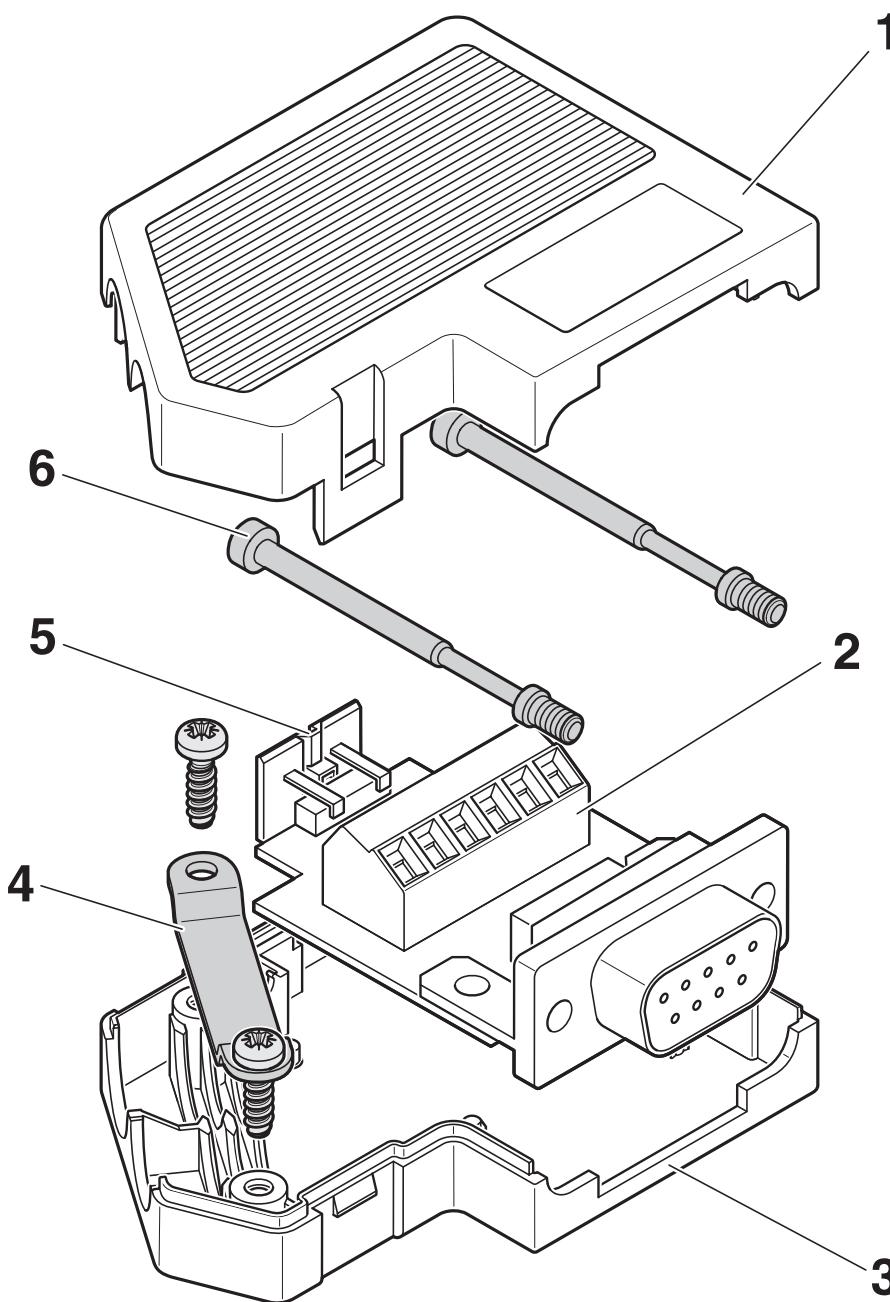
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Schematic diagram



Function elements

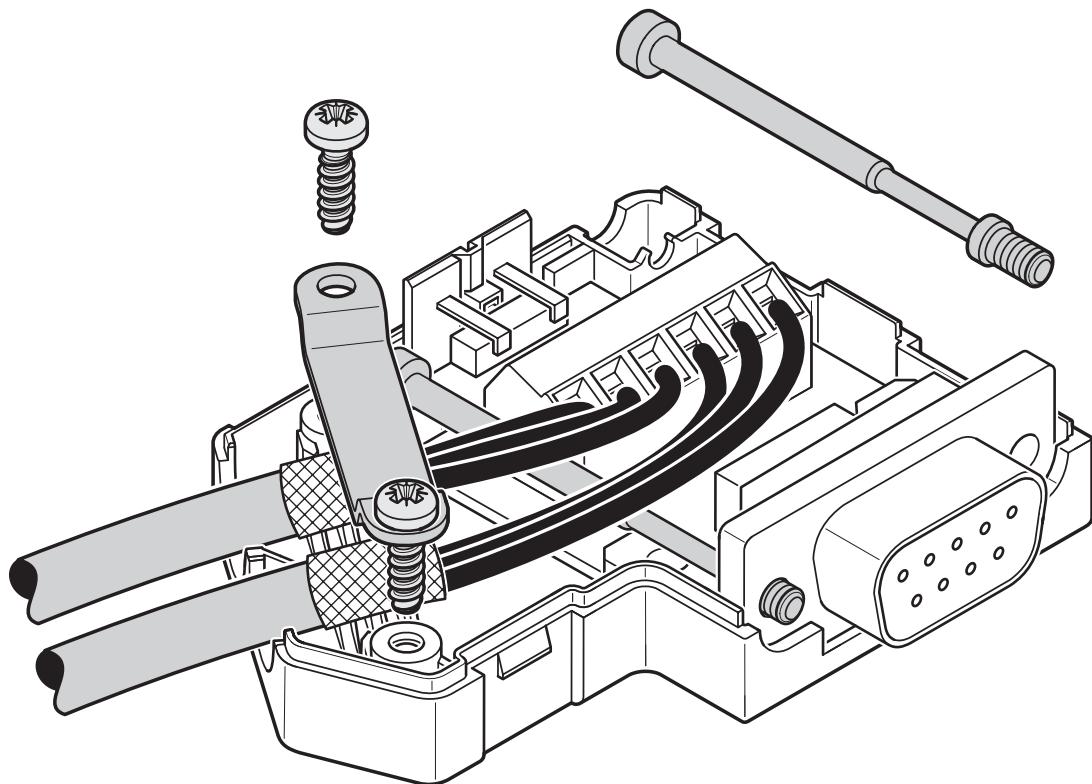
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Schematic diagram



Connection of the cables

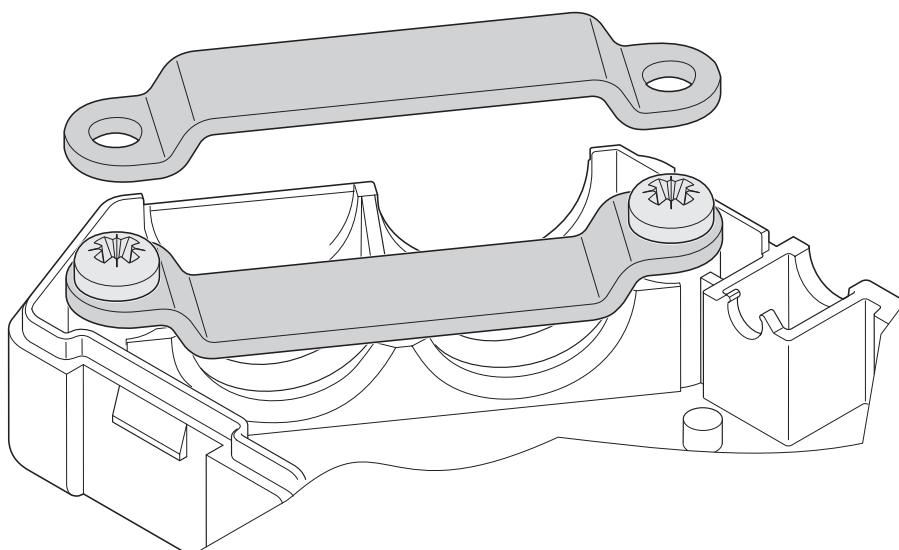
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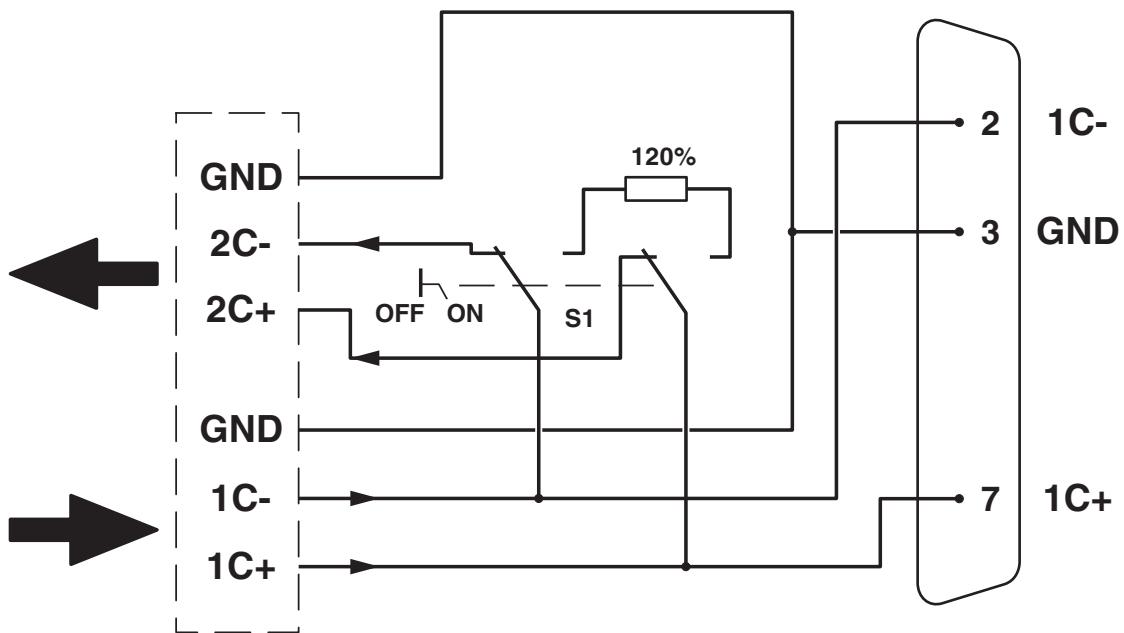
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Schematic diagram



Clip bracket

Block diagram



Circuit diagram

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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2744694>



cUL Recognized

Approval ID: E238705



UL Recognized

Approval ID: E238705



CSA

Approval ID: 2437602

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Classifications

ECLASS

ECLASS-13.0	27440302
ECLASS-15.0	27440322

ETIM

ETIM 9.0	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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