

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



2311797

<https://www.phoenixcontact.com/us/products/2311797>

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D-SUB connector, 9-pos. female connector, axial version with two cable entries, 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 mm² screw terminal block. The range covers SUBCON plugs for point-to-point connections with a cable infed in 9, 15 and 25-pos. male or female versions.

Your advantages

- Assembly under field conditions
- Separate terminal blocks for each cable
- High transmission speed
- Easy assembly thanks to knurled screws
- High level of EMC
- Can be used universally

Commercial data

Item number	2311797
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC511
Catalog page	Page 450 (C-6-2019)
GTIN	4046356293945
Weight per piece (including packing)	43.5 g
Weight per piece (excluding packing)	34 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
Nominal current I_N	100 mA

Connection data

Cross section AWG	(converted acc. to IEC)
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D-SUB connection

Connection method	D-SUB socket
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PCB connection

Connection method	Screw connection
Stripping length	4.5 mm
Conductor cross section, rigid min.	0.14 mm ²
Conductor cross section, rigid max.	0.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	0.5 mm ²
Single-wire/terminal point, rigid AWG min.	26
Single-wire/terminal point, rigid AWG max.	20
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	20

Interfaces

Bus system	Universal type for all systems
Signal	RS-232
	RS-422
	RS-485

Dimensions

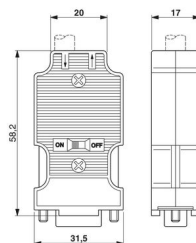
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Dimensional drawing



Width	17 mm
Height	31.5 mm
Length	58.2 mm

Material specifications

Material	ABS, metal-plated
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Cable/line

External cable diameter ()	7.6 mm ... 8.4 mm (Incoming bus line)
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 200
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30
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

EAC

Identification	EAC
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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

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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

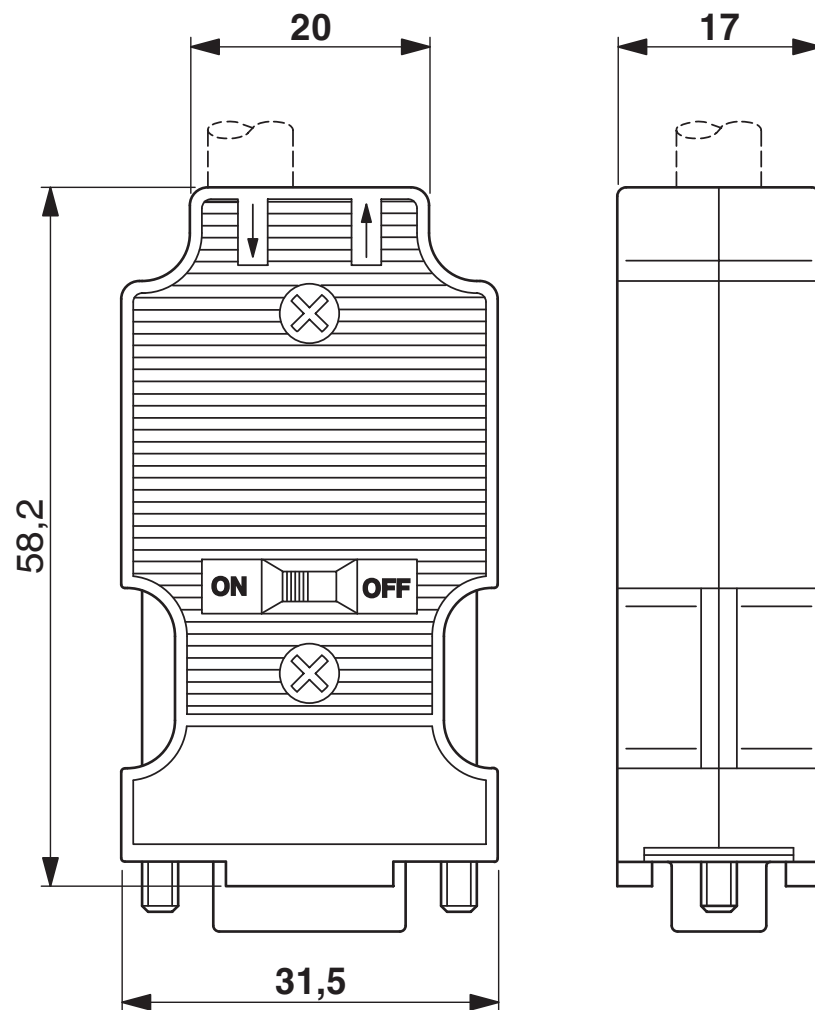
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Drawings

Dimensional drawing



Dimensional drawing SUBCON-PLUS-.../AX...

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2311797>



cUL Recognized
Approval ID: FILE E 238705



UL Recognized
Approval ID: FILE E 238705



ATEX
Approval ID: PxCIF15ATEX2744241X

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27440302
ECLASS-13.0	27440302
ECLASS-12.0	27440302

ETIM

ETIM 9.0	EC001132
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

VS-09-GC-ST/ST - D-SUB gender changer

1652651

<https://www.phoenixcontact.com/us/products/1652651>

D-SUB contact insert, shell size 1, with nine signal contacts, type of contact pin, gender changer, fixing with 4-40 UNC thread



SUBCON-PLUS-M/AX 9 - D-SUB bus connector

2904467

<https://www.phoenixcontact.com/us/products/2904467>

D-SUB plug, 9-pos., pin, axial design with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block



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SUBCON 9/F-SH - D-SUB bus connector

2761499

<https://www.phoenixcontact.com/us/products/2761499>



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

QUICK WIREFOX 6 - Stripping pliers

1204384

<https://www.phoenixcontact.com/us/products/1204384>



Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm², wire cutting up to 6 mm² flexible or 4 mm² rigid

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SZK PH1 VDE - Screwdriver

1205150

<https://www.phoenixcontact.com/us/products/1205150>



Screwdriver, PH crosshead, VDE insulated, size: PH 1 x 80 mm, 2-component grip, with non-slip grip

SZS 0,4X2,0 - Screwdriver

1205202

<https://www.phoenixcontact.com/us/products/1205202>



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

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PSM-AD-D9-NULLMODEM - Adapter

2708753

<https://www.phoenixcontact.com/us/products/2708753>

V.24 (RS-232) zero modem connector



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