

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection



Product description

The D-SUB series, **SUBCON-PLUS-PROFIB/...** was specially designed for use in PROFIBUS systems up to 12 Mbps. Under field conditions, it allows convenient and fast connection of the incoming and outgoing bus cable. 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.

Your advantages

- Suitable for all common Fast Connect PROFIBUS cables and RS-485 bus lines

Commercial data

Item number	2313672
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC531
Catalog page	Page 447 (C-6-2019)
GTIN	4046356514583
Weight per piece (including packing)	40.1 g
Weight per piece (excluding packing)	39.8 g
Customs tariff number	85366990
Country of origin	DE

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Technical data

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	3, 5, 6, 8

Electrical properties

Test voltage	50 V
Maximum power dissipation for nominal condition	0.025 W
Nominal voltage U_N	5 V
Nominal current I_N	100 mA

Connection data

Tightening torque	... 1.2 Nm
-------------------	------------

D-SUB connection

Connection method	D-SUB connector
-------------------	-----------------

IDC terminal blocks

Connection method	IDC fast connection
Conductor cross section, rigid min.	0.32 mm ²
Conductor cross section, rigid max.	1 mm ²
Conductor cross section flexible min.	0.32 mm ²
Conductor cross section flexible max.	1 mm ²
Single-wire/terminal point, rigid AWG min.	22
Single-wire/terminal point, rigid AWG max.	18
Min. AWG conductor cross section, flexible	22
Max. AWG conductor cross section, flexible	18

Interfaces

Bus system	PROFIBUS DP
Signal	PROFIBUS

Dimensions

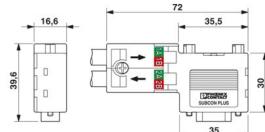
SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Dimensional drawing



Width

16.8 mm

Height

34.8 mm

Length

72 mm

External dimensions

External diameter min.	7.6 mm
External diameter max.	8.4 mm

Material specifications

Material (Housing)	ABS (metal-plated)
--------------------	--------------------

Cable/line

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 200
-----------------------------	-------

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

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	in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0
---	---

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector

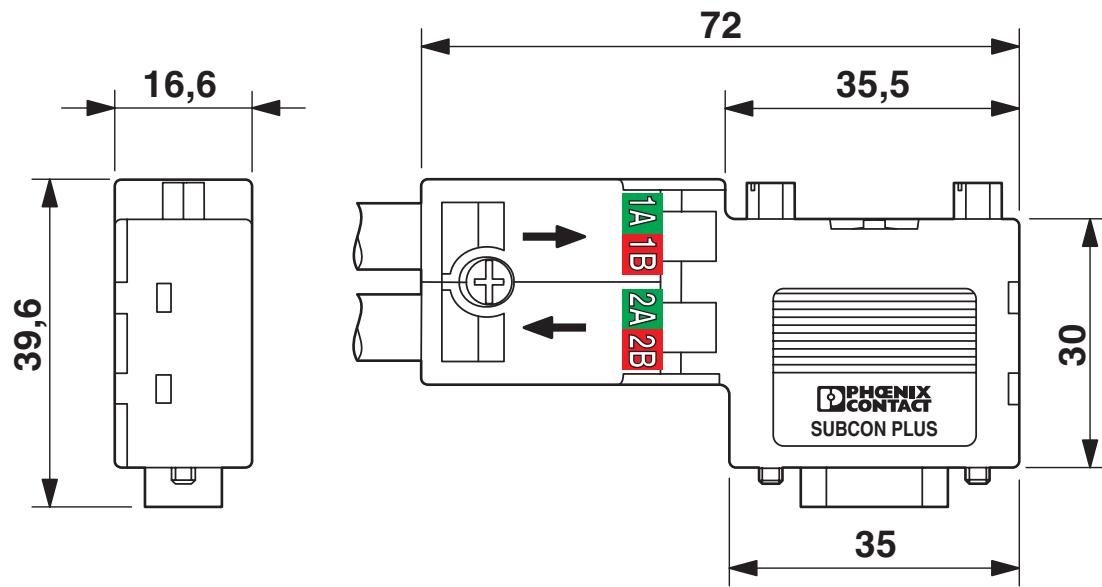


2313672

<https://www.phoenixcontact.com/us/products/2313672>

Drawings

Dimensional drawing



Dimensional drawing

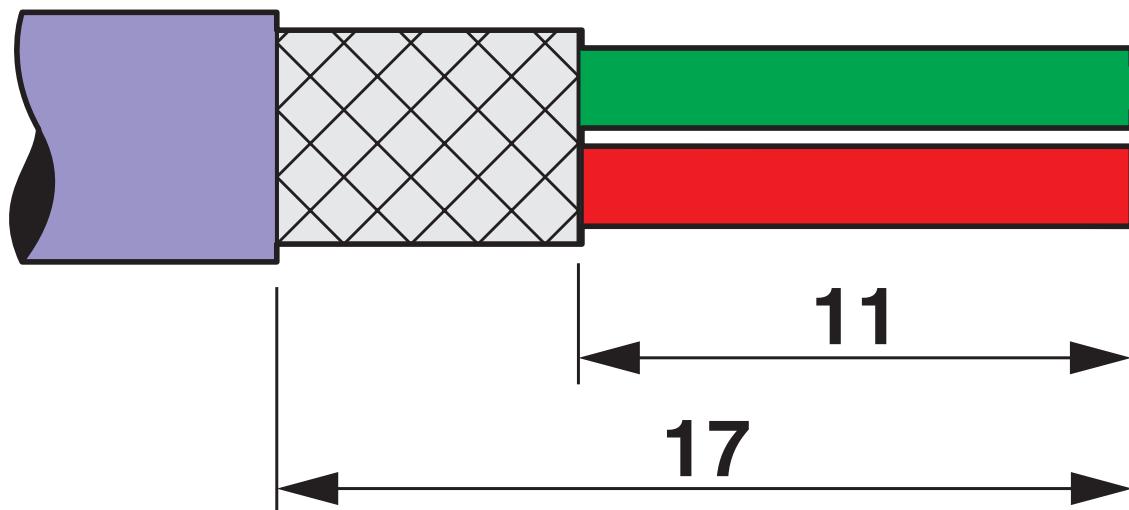
SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Schematic diagram



Stripping specifications

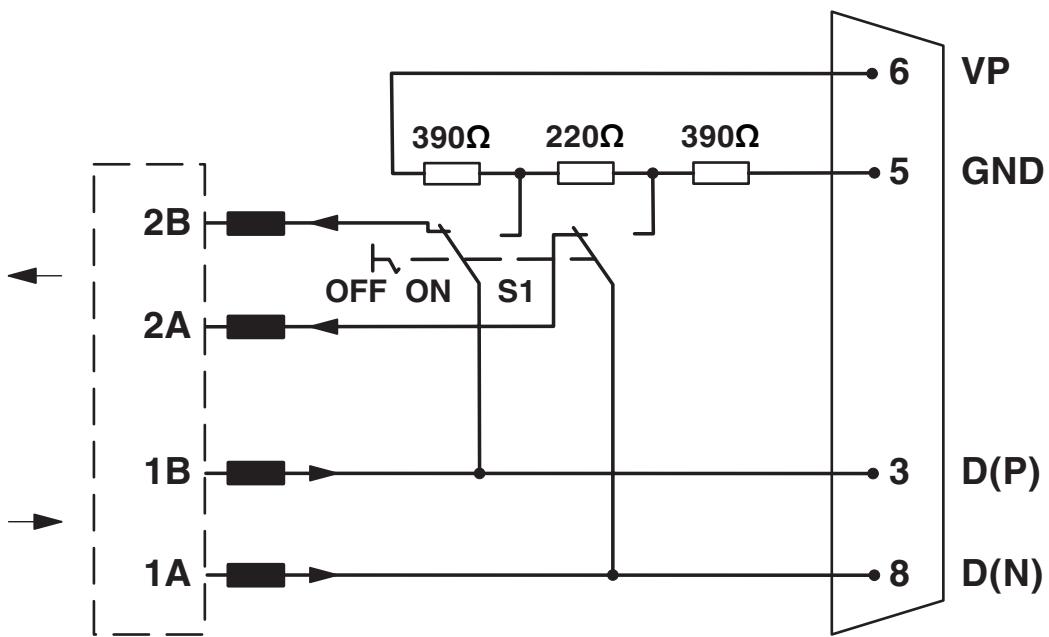
SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Circuit diagram



SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2313672>



cUL Recognized

Approval ID: FILE E 238705



UL Recognized

Approval ID: FILE E 238705



CSA

Approval ID: 2437602

cULus Recognized

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001132
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	c1847a23-19c7-45c5-abf0-5cc632b78f32

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

Accessories

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



PSM-STRIP-FC/PROFIB - Stripping tool

2744623

<https://www.phoenixcontact.com/us/products/2744623>

Quick stripping tool for PROFIBUS cable, type Fast Connect



SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

PSM-CABLE-PROFIB/FC - Bus system cable

2744652

<https://www.phoenixcontact.com/us/products/2744652>



By the meter, Bus system cable, PROFIBUS (12 Mbps), shielded, PVC FR VI/PVC, violet, 2-wire (1x2xAWG22/1), color single wire: red, green, cable length: Free entry (1.0 ... 1000.0 m)

SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/us/products/1204504>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

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



SUBCON-PLUS-PROFIB/90/PG/IDC - D-SUB bus connector

2313685

<https://www.phoenixcontact.com/us/products/2313685>

D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; IDC terminal block connection



SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

SUBCON-PLUS-PROFIB/PG/SC2 - D-SUB bus connector

2708245

<https://www.phoenixcontact.com/us/products/2708245>



D-SUB connector, 9-pos., male connector, 35° cable entry, bus system: PROFIBUS DP up to 12 Mbps with PG D-SUB socket for connecting a programming device, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

SUBCON-PLUS-PROFIB/AX/SC - D-SUB bus connector

2744380

<https://www.phoenixcontact.com/us/products/2744380>



D-SUB connector, 9-pos., male connector, axial version with two cable entries, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

SUBCON-PLUS-PROFIB/90/IDC - D-SUB bus connector



2313672

<https://www.phoenixcontact.com/us/products/2313672>

SUBCON-PLUS-PROFIB/90/SC - D-SUB bus connector

2313698

<https://www.phoenixcontact.com/us/products/2313698>

D-SUB connector, 9-pos., male connector, 90° cable entry, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks



PSI-TERMINATOR-PB-TBUS - Termination resistor

2702636

<https://www.phoenixcontact.com/us/products/2702636>

Active termination resistor for PROFIBUS and RS-485 bus systems, redundant power supply, routing of the supply voltage via DIN rail connector, electrical isolation, switchable termination, integrated programming interface



Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com