

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



2313685

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

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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

## 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	2313685
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC531
Catalog page	Page 447 (C-6-2019)
GTIN	4046356514576
Weight per piece (including packing)	45.3 g
Weight per piece (excluding packing)	41 g
Customs tariff number	85366990
Country of origin	DE

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## 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
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#### D-SUB connection

Connection method	D-SUB connector
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#### IDC terminal blocks

Connection method	IDC fast connection
Conductor cross section, rigid min.	0.32 mm <sup>2</sup>
Conductor cross section, rigid max.	1 mm <sup>2</sup>
Conductor cross section flexible min.	0.32 mm <sup>2</sup>
Conductor cross section flexible max.	1 mm <sup>2</sup>
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

#### Programming connection

Connection method	D-SUB socket
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### Interfaces

Bus system	PROFIBUS DP
Signal	PROFIBUS

### Dimensions

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Dimensional drawing	
Width	16.8 mm
Height	34.8 mm
Length	72 mm

## Material specifications

Material Housing	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	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

### EAC

Identification	EAC
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### 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	in accordance with VW-AUDI-Seat central standard P-VW 3.10.7 57 65 0
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## Classifications

### ECLASS

ECLASS-11.0	27440302
ECLASS-12.0	27440302
ECLASS-13.0	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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