

2313685

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D-SUB connector, 9-pos., pin, 90° cable outlet, 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
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

Signal

#### Notes

Note on application	Only for industrial use
duct 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
ctrical properties	
Test voltage	50 V
Maximum power dissipation for nominal condition	0.025 W
Nominal voltage U <sub>N</sub>	5 V
Nominal current I <sub>N</sub>	100 mA
-SUB connection	
Connection method	D-SUB connector
OC terminal blocks	
Connection method	IDC fast connection
Conductor cross-section, rigid min.	0.32 mm²
Conductor cross-section, rigid max.	1 mm²
Conductor cross-section flexible min.	0.32 mm²
Conductor cross-section flexible max.	1 mm²
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
rogramming connection	
Connection method	D-SUB socket
rfaces	
Bus system	PROFIBUS DP

**PROFIBUS** 



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### **Dimensions**

Dimensional drawing	15.6 72 35.5 P. Common.
Width	16.8 mm
Height	34.8 mm
Length	72 mm

### Material specifications

Material (Housing)	ABS (metal-plated)
Material (Housing)	/ LBG (Metal plated)

#### Cable/line

External cable diameter	7.6 mm 8.4 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, 10150 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

### 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

VDMA 24364:2018-05

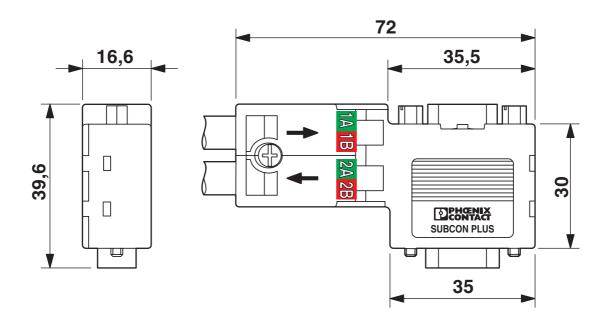


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### Drawings

### Dimensional drawing



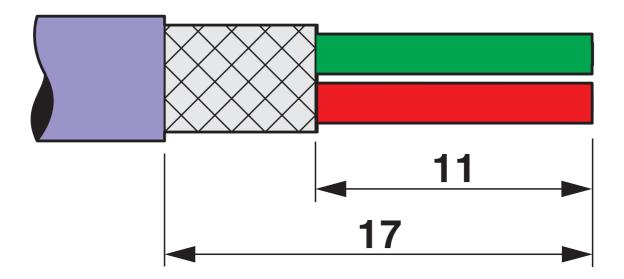
Dimensional drawing



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Schematic diagram

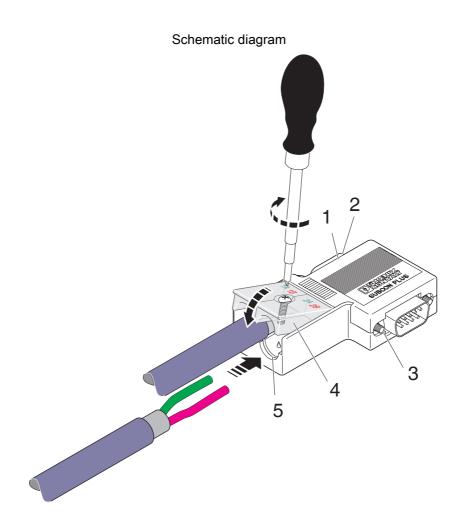


Stripping specifications



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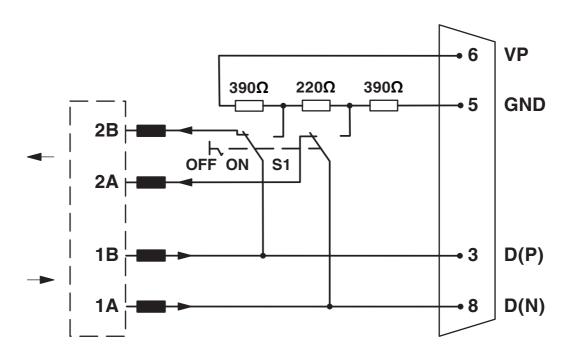
Connecting cables



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### Circuit diagram



Functional diagram of the connector range SUBCON-PLUS-PROFIB/...



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### **Approvals**

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**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	
	IODOO		
Uľ	NSPSC		
	UNSPSC 21.0	39121400	



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### 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	6e693fba-aa8c-4817-8c85-6fd1fb0461a7

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