

2313708

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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; screw connection terminal blocks

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	2313708
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC531
Catalog page	Page 447 (C-6-2019)
GTIN	4046356514156
Weight per piece (including packing)	55.8 g
Weight per piece (excluding packing)	40 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.
roduct 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
lectrical 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
onnection data	
Tightening torque	1.2 Nm
D-SUB connection	
Connection method	D-SUB connector
PCB connection	
Connection method	Screw connection
Stripping length	5 mm
Conductor cross section, rigid min.	0.14 mm²
Conductor cross section, rigid max.	1.5 mm²
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1 mm²
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
Programming connection	
Connection method	D-SUB socket



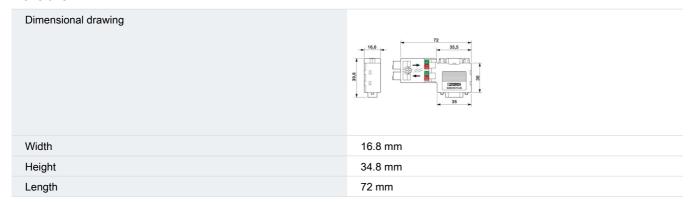
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Interfaces

Bus system	PROFIBUS DP
Signal	PROFIBUS

Dimensions



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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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	\leq 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

ΔΤΕΥ

ATEX	
Identification	



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Certificate	PxCIF15ATEX2744348X
Note	Please follow the special installation instructions in the documentation!
UKEX	
Identification	
Certificate	PxCIMA22UKEX2744348X
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	VDMA 24364:2018-05

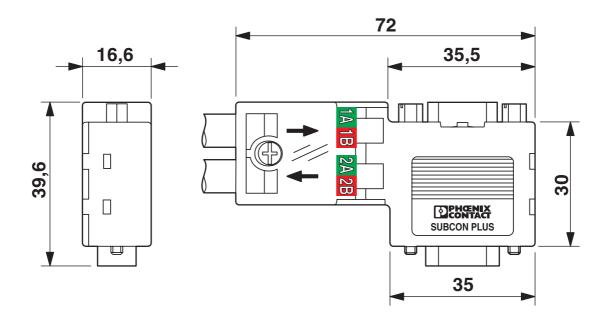


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Drawings

Dimensional drawing



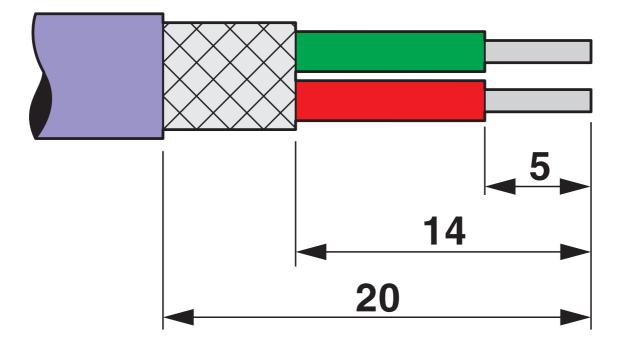
Dimensional drawing



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Schematic diagram



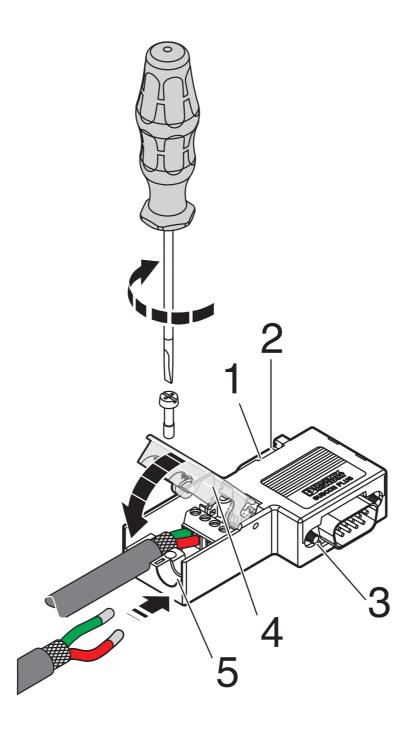
Stripping specifications



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Schematic diagram



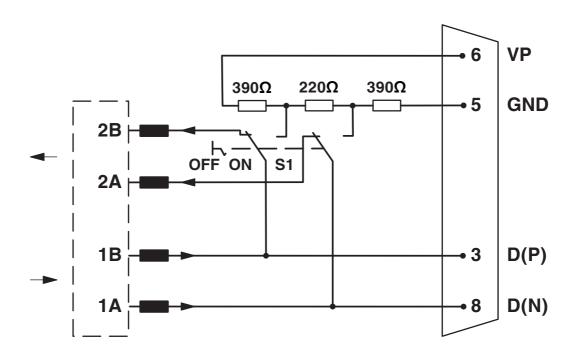
Connecting cables



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Circuit diagram



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2313708



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



CSA

Approval ID: 2437602



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Classifications

UNSPSC 21.0

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		A.7.7

202.00			
	ECLASS-13.0	27440302	
ET	TIM		
	ETIM 9.0	EC001132	
UN	ISPSC		

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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	fbe050b2-bb0e-48df-b343-2c22c6beeef3

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