

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

CCCex note	Use in potentially explosive areas is not permitted in China.
dust proportion	
duct properties	Data alva
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
etrical 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
nection data	
Tightening torque	1.2 Nm
SUB connection	
Connection method	D-SUB connector
CB 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
	0.14 mm²
Conductor cross section flexible min.	
Conductor cross section flexible min. Conductor cross section flexible max.	1 mm²
	1 mm ² 26
Conductor cross section flexible max.	
Conductor cross section flexible max. Single-wire/terminal point, rigid AWG min.	26
Conductor cross section flexible max. Single-wire/terminal point, rigid AWG min. Single-wire/terminal point, rigid AWG max.	26 16
Conductor cross section flexible max. Single-wire/terminal point, rigid AWG min. Single-wire/terminal point, rigid AWG max. Min. AWG conductor cross section, flexible	26 16 26

PROFIBUS DP

Bus system



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Signal	PROFIBUS
nensions	
Dimensional drawing	35,5 36,6 36,5
Width	16.8 mm
Height	34.8 mm
Length	72 mm
aterial specifications	
Material (Housing)	ABS (metal-plated)
uble/line	
External cable diameter	7.6 mm 8.4 mm (Incoming bus line)
Insertion/withdrawal cycles	> 200
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)
provals	
provals ATEX	
ATEX	
ATEX Identification	
ATEX Identification Certificate	PxCIF15ATEX2744348X Please follow the special installation instructions in the
Identification Certificate Note	PxCIF15ATEX2744348X Please follow the special installation instructions in the

PxCIMA22UKEX2744348X

Certificate

Corrosive gas test



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	Identification	ISA-S71.04-1985 G3 Harsh Group A
St	andards 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

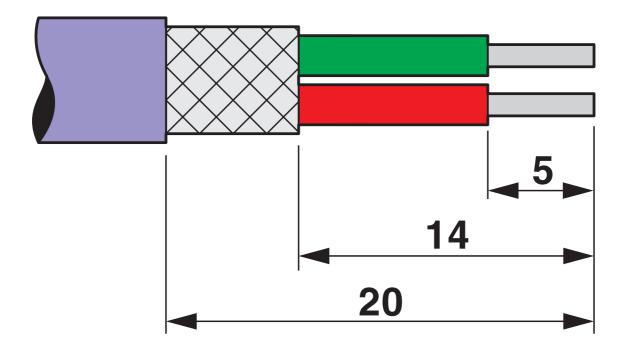


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Drawings

Schematic diagram



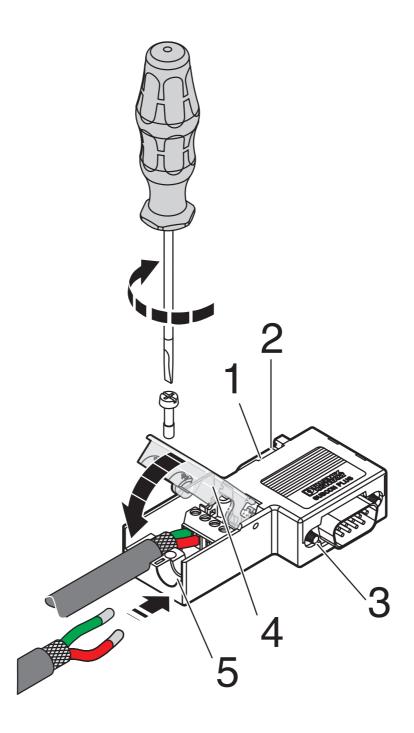
Stripping specifications



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Schematic diagram



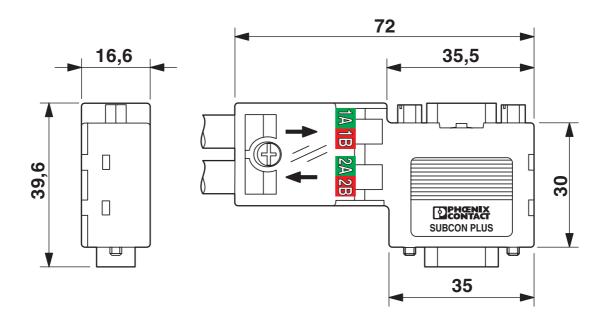
Connecting cables



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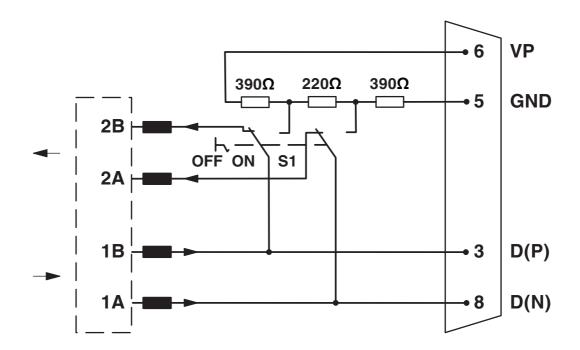
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Dimensional drawing



Dimensional drawing

Circuit diagram





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Approvals

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



cUL Recognized

Approval ID: FILE E 238705



UL RecognizedApproval ID: FILE E 238705



CSA

Approval ID: 2437602

cULus Recognized



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Classifications

ECLASS

	ECLASS-11.0	27440302	
	ECLASS-13.0	27440302	
	ECLASS-12.0	27440302	
ETIM			
	ETIM 8.0	EC001132	

UNSPSC

	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	fbe050b2-bb0e-48df-b343-2c22c6beeef3	



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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





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PSM-CABLE-PROFIB/FC - Bus system cable

2744652

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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



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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

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

2313698

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



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

2708245

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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



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

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

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

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