

2313698

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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

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	2313698
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DN10
Product Key	DNC531
Catalog Page	Page 447 (C-6-2019)
GTIN	4046356514163
Weight per Piece (including packing)	51.7 g
Weight per Piece (excluding packing)	36 g
Customs tariff number	85366990
Country of origin	DE

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

connector



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Technical Data

Notes

Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

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

D-SUB connection				
Connection method	D-SUB connector			
PCB connection	PCB connection			
Connection method	Screw connection			
Stripping length	5 mm			
Conductor cross section, rigid min.	0.14 mm ²			
Conductor cross section, rigid max.	1.5 mm ²			
Conductor cross section flexible min.	0.14 mm ²			
Conductor cross section flexible max.	1 mm ²			
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			

Interfaces

Bus system	PROFIBUS DP
Signal	PROFIBUS

Dimensions



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Discontractions for	
Dimensional drawing	
Width	16.8 mm
Height	34.8 mm
Length	72 mm
Naterial specifications	
Material (GRP)	ABS, metal-plated
Cable/line	
External cable diameter	7.6 mm 8.4 mm (Incoming bus line)
Mechanical properties	
Insertion/withdrawal cycles	> 200
Ambient conditions Degree of protection Ambient temperature (operation)	IP40 -20 °C 75 °C
Ambient temperature (storage/transport) Altitude	-25 °C 80 °C
Attitude	≤ 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)
EAC	
	EAC
EAC	EAC
EAC Identification	EAC II 3 G Ex nA IIC T4 Gc X
EAC Identification	
EAC Identification ATEX Identification	 II 3 G Ex nA IIC T4 Gc X Please follow the special installation instructions in the
EAC Identification ATEX Identification Note	 II 3 G Ex nA IIC T4 Gc X Please follow the special installation instructions in the
EAC Identification ATEX Identification Note Corrosive gas test Identification	 II 3 G Ex nA IIC T4 Gc X Please follow the special installation instructions in the documentation!
Identification ATEX Identification Note Corrosive gas test	 II 3 G Ex nA IIC T4 Gc X Please follow the special installation instructions in the documentation!

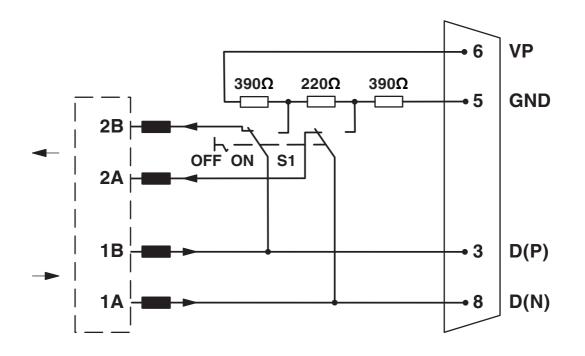


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Drawings

Circuit diagram

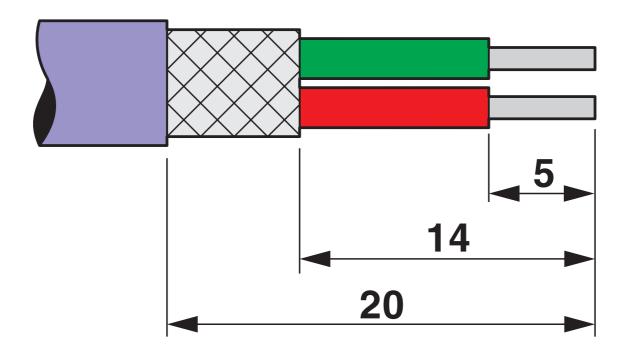




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Schematic diagram



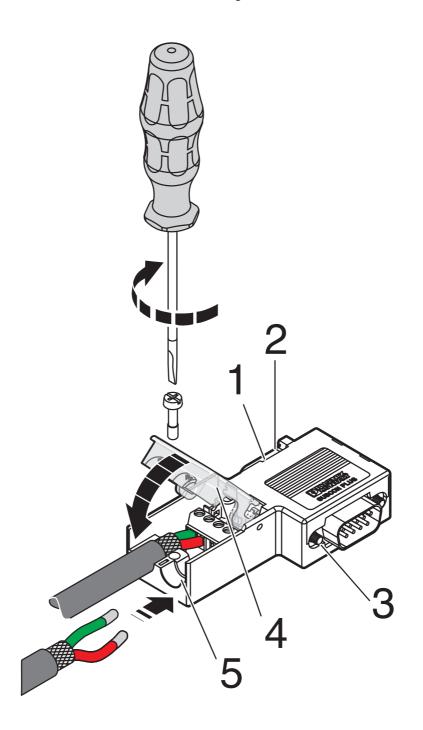
Stripping specifications



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Schematic diagram



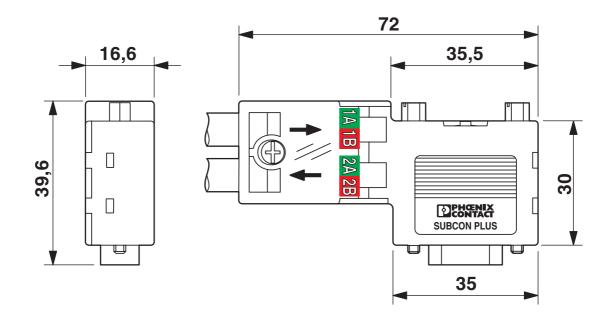
Connecting cables



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Dimensional drawing



Dimensional drawing



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2313698

.91	CUL Recognized Approval ID: FILE E 238705
91	UL Recognized Approval ID: FILE E 238705
@ :	CSA Approval ID: 2437602
Æx)	ATEX Approval ID: PxCIF15ATEX2744348X

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

connector



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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC001132	
UN	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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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 $\rm mm^2,$ wire cutting up to 6 $\rm mm^2$ flexible or 4 $\rm mm^2$ 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: $0.4 \times 2.5 \times 75$ mm, 2-component grip, with non-slip grip



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SZK PH1 VDE - Screwdriver

1205150

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Screwdriver, PH crosshead, VDE insulated, size: PH 1 x 80 mm, 2-component grip, with non-slip grip

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

2313708

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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; screw connection terminal blocks



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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

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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/IDC - D-SUB bus connector

2313672

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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

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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