

2744380

https://www.phoenixcontact.com/us/products/2744380

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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.

Commercial data

Item number	2744380
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10
Product key	DNC531
GTIN	4017918818142
Weight per piece (including packing)	52 g
Weight per piece (excluding packing)	51.16 g
Customs tariff number	85366990
Country of origin	DE



2744380

https://www.phoenixcontact.com/us/products/2744380

Technical data

Notes

Only for industrial use
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

Maximum power dissipation for nominal condition	0.025 W
Nominal voltage U _N	5 V
Nominal current I _N	100 mA
Transmission medium	Copper

Connection data

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

Interfaces

Bus system	PROFIBUS DP
Signal	PROFIBUS



2744380

https://www.phoenixcontact.com/us/products/2744380

Dimensions

Dimensional drawing	31.5
Width	17 mm
Height	31.5 mm
Length	58.2 mm

Material specifications

Material (Housing)	ABS (metal-plated)
--------------------	--------------------

Cable/line

External cable diameter	7.6 mm 8.4 mm (Incoming bus line)
External cable diameter	7.0 mm 0.4 mm (incoming bus line)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 200

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

ATEX

ATEX		
Identification	II 3 G Ex ec IIC T4 Gc	
Certificate	PxCIF15ATEX2744348X	
Note	Please follow the special installation instructions in the documentation!	



2744380

https://www.phoenixcontact.com/us/products/2744380

U	K	EX
---	---	----

ONEX	
Identification	
Certificate	PxCIMA22UKEX2744348X
Corrosive gas test	
Identification	ISA-S71.04-1985 G3 Harsh Group A
Standards and regulations	
Fire forms between that a differentially a self-configuration	\/D\\\\\\ 04004-0040_0F

S

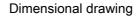
Free from substances that could impair the application of coating	VDMA 24364:2018-05

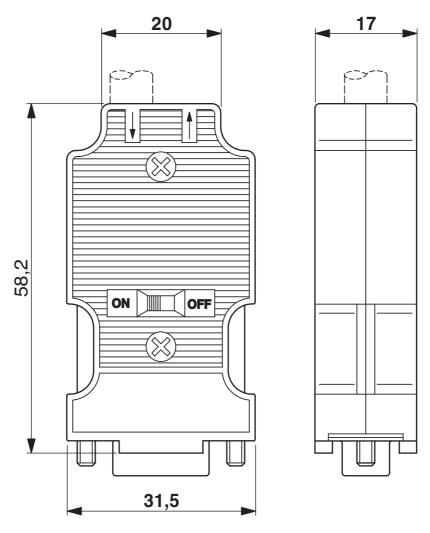


2744380

https://www.phoenixcontact.com/us/products/2744380

Drawings



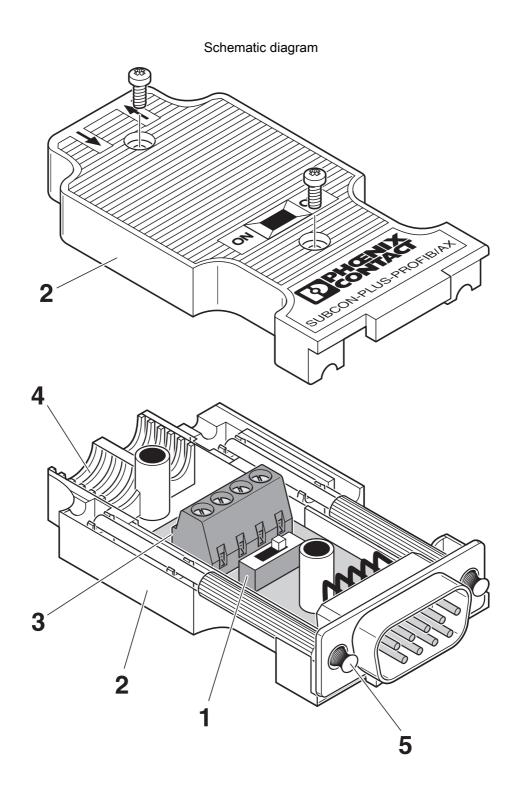


Dimensional drawing



2744380

https://www.phoenixcontact.com/us/products/2744380



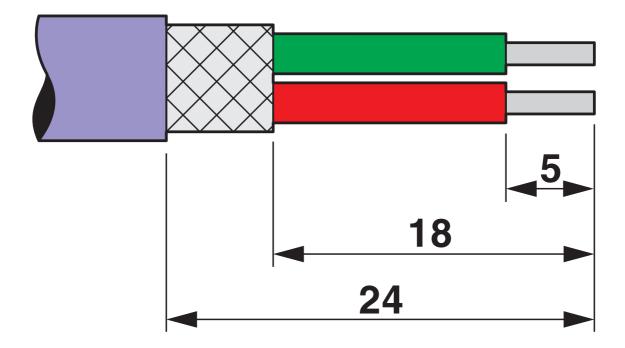
Function elements



2744380

https://www.phoenixcontact.com/us/products/2744380

Schematic diagram



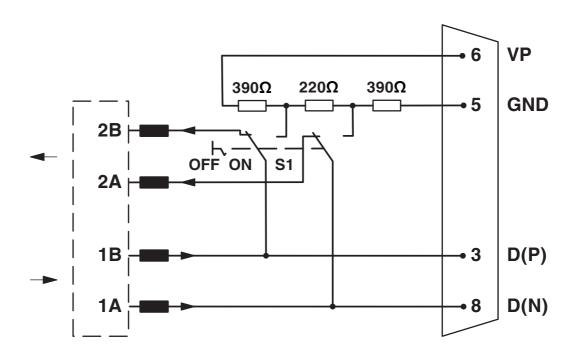
Stripping specifications



2744380

https://www.phoenixcontact.com/us/products/2744380

Circuit diagram



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



2744380

https://www.phoenixcontact.com/us/products/2744380

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2744380



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



CSA

Approval ID: 2437602



2744380

https://www.phoenixcontact.com/us/products/2744380

Classifications

ECLASS

	ECLASS-13.0	27440302	
	ECLASS-15.0	27440322	
ETIM			
	ETIM 9.0	EC001132	
UNSPSC			
	UNSPSC 21.0	39121400	

U UNSPSC 21.0



2744380

https://www.phoenixcontact.com/us/products/2744380

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

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