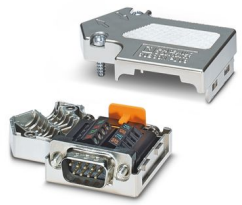
SUBCON-PLUS-PROFIB/SC2 - D-SUB bus connector

2708232

https://www.phoenixcontact.com/us/products/2708232

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D-SUB connector, 9-pos., pin, 35° 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

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. A special feature of the 35° angled connector is that the internal connection unit can be turned round. Whether the cable is to be inserted from the right or left can thus be decided on-site.

Your advantages

- Termination resistor can be connected
- Screw connection
- 35° cable outlet
- Change to the D-SUB orientation through a reversible connection block
- Metal housing for high level of immunity to interference at maximum transmission speed
- Vibration and shock resistance in accordance with EN 50155
- Suitable for all common Fast Connect PROFIBUS cables and RS-485 bus lines

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2708232
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN10

Product key	DNC531
GTIN	4017918960483
Weight per piece (including packing)	34.7 g
Weight per piece (excluding packing)	34.7 g
Customs tariff number	85366990
Country of origin	DE

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.

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

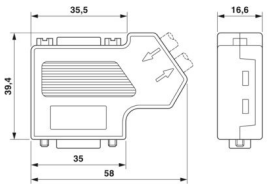
Connection method	Screw connection
Stripping length	5 mm
Conductor cross-section, rigid min.	0.14 mm²
Conductor cross-section, rigid max.	1.5 mm²
Conductor cross-section flexible min.	0.14 mm²
Conductor cross-section flexible max.	1 mm²
Single-wire/terminal point, rigid AWG min.	26
Single-wire/terminal point, rigid AWG max.	16
Min. AWG conductor cross-section, flexible	26
Max. AWG conductor cross-section, flexible	18
Tightening torque	0.22 Nm ... 0.25 Nm

Interfaces

Bus system	PROFIBUS DP

Signal	PROFIBUS

Dimensions

Dimensional drawing	
Width	16.6 mm
Height	39.4 mm
Length	58 mm

External dimensions

External diameter min.	7.6 mm
External diameter max.	8.4 mm

Material specifications

Color (Housing)	white aluminium (RAL 9006)
Material (Housing)	ABS (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	Operation: 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	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

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

UKEX

Identification	II 3 G Ex ec IIC T4 Gc
Certificate	PxCIMA22UKEX2744348X

Corrosive gas test

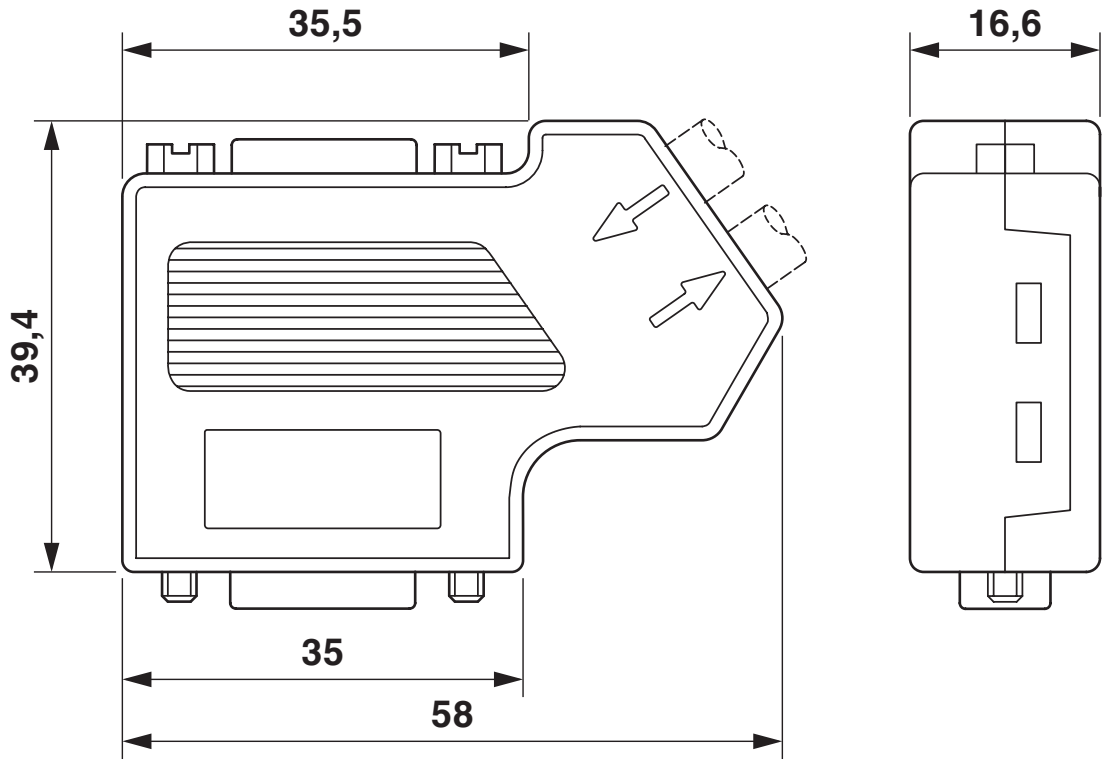
Identification	ISA-S71.04-1985 G3 Harsh Group A

Standards and regulations

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

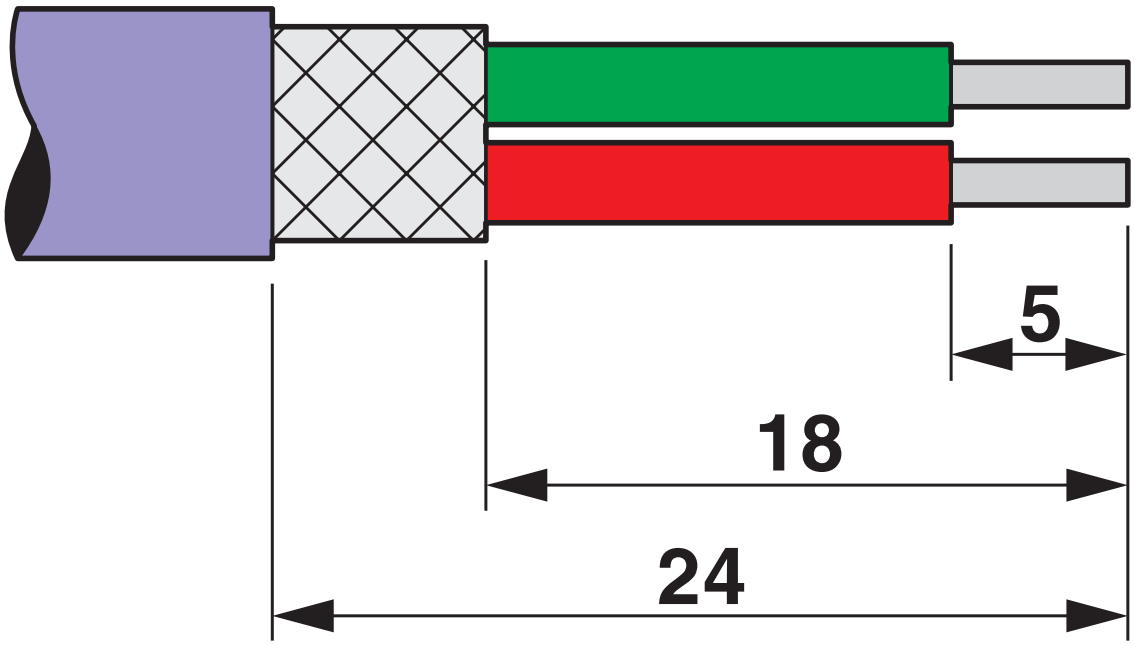
Drawings

Dimensional drawing



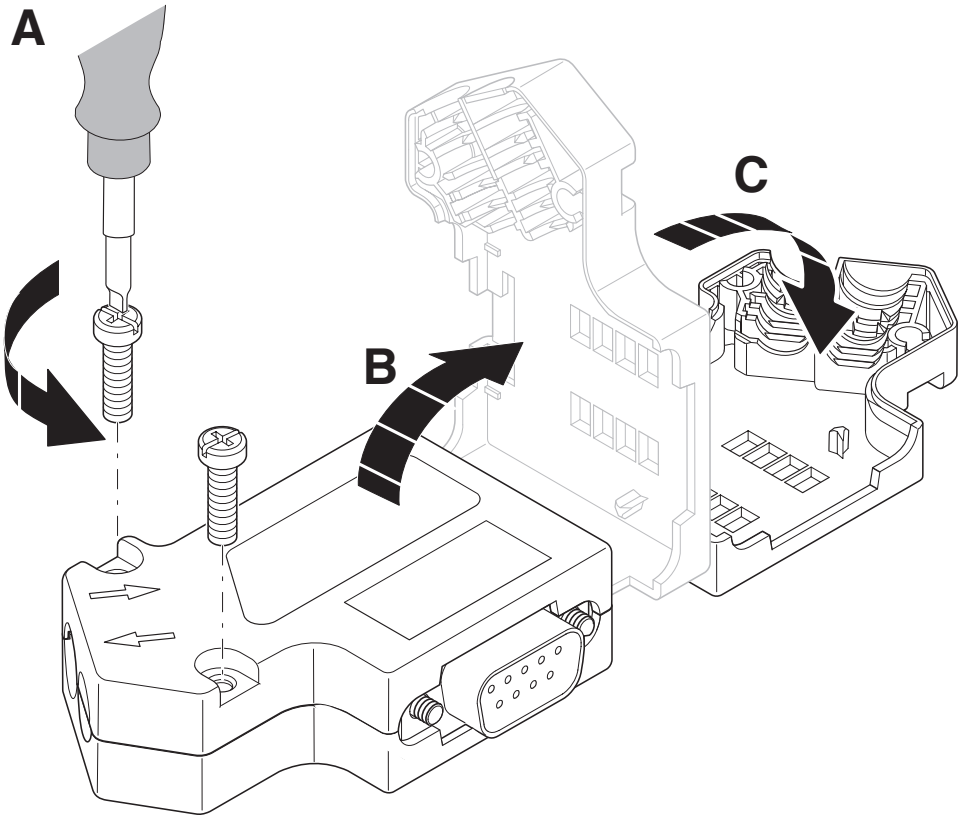
Dimensional drawing

Schematic diagram



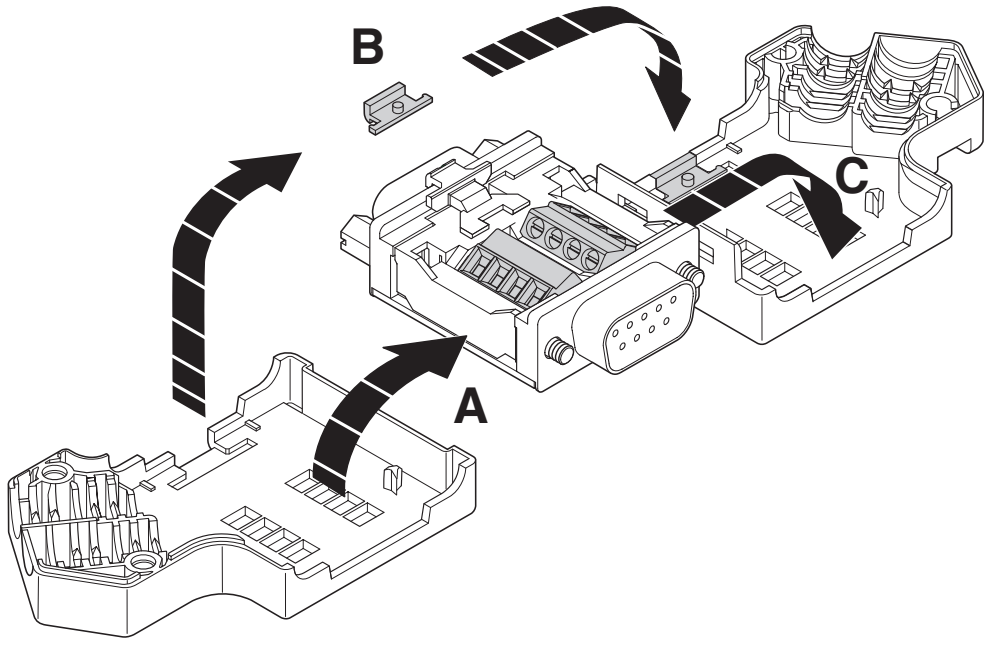
Stripping specifications

Schematic diagram



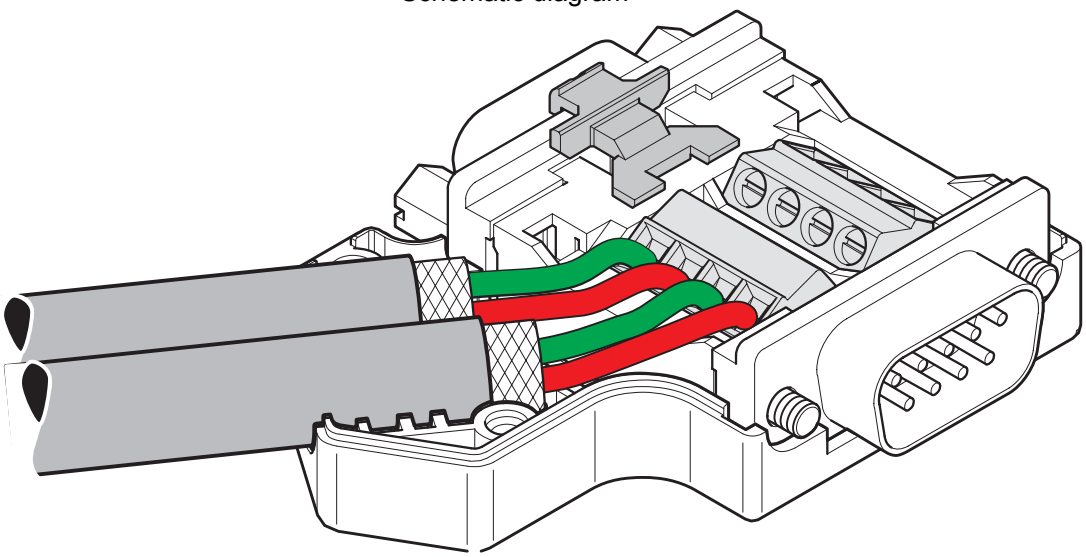
Right-hand side cable entry

Schematic diagram



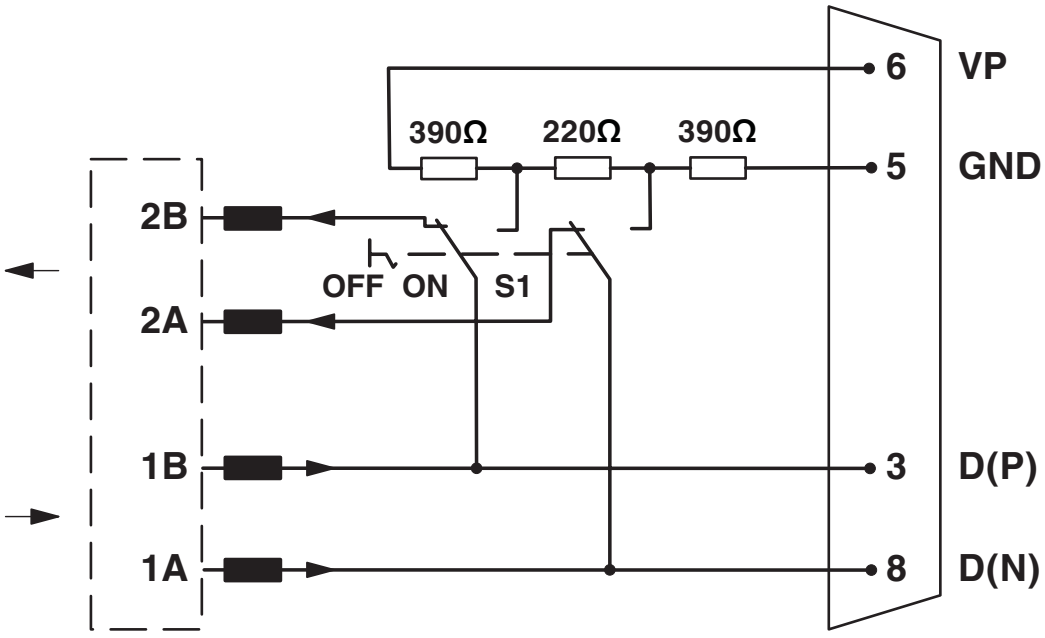
Right-hand side cable entry

Schematic diagram



Left-hand side cable entry

Circuit diagram



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

Approvals

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CSA
Approval ID: 2437602

cULus Recognized
Approval ID: E238705

Classifications

ECLASS

ECLASS-13.0	27440302
ECLASS-15.0	27440322

ETIM

ETIM 10.0	EC001132

UNSPSC

UNSPSC 21.0	39121400

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%

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