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

2744403

https://www.phoenixcontact.com/us/products/2744403

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D-SUB connector, 9-pos., pin, 35° 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; spring-cage connection terminal blocks

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 2744403 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN10 |
| Product key | DNC531 |
| GTIN | 4017918819453 |
| Weight per piece (including packing) | 46.1 g |
| Weight per piece (excluding packing) | 43.2 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 | Spring-cage connection |
| Stripping length | 9 mm |
| Conductor cross-section, rigid min. | 0.12 mm² |
| Conductor cross-section, rigid max. | 0.5 mm² |
| Single-wire/terminal point, rigid AWG min. | 26 |
| Single-wire/terminal point, rigid AWG max. | 20 |

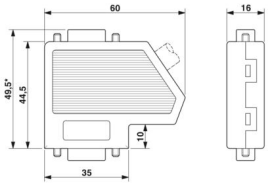
Programming connection

| | |
|---|---|
| Connection method | D-SUB socket |

## Interfaces

| | |
|---|---|
| Bus system | PROFIBUS DP |
| Signal | PROFIBUS |

## Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 16 mm |
| Height | 49.5 mm |
| Length | 60 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 | Ⓔx II 3 G Ex ec IIC T4 Gc |
| Certificate | PxCIF15ATEX2744348X |
| Note | Please follow the special installation instructions in the documentation! |

UKEX

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec IIC T4 Gc |
| Certificate | PxCIMA22UKEX2744348X |

Corrosive gas test

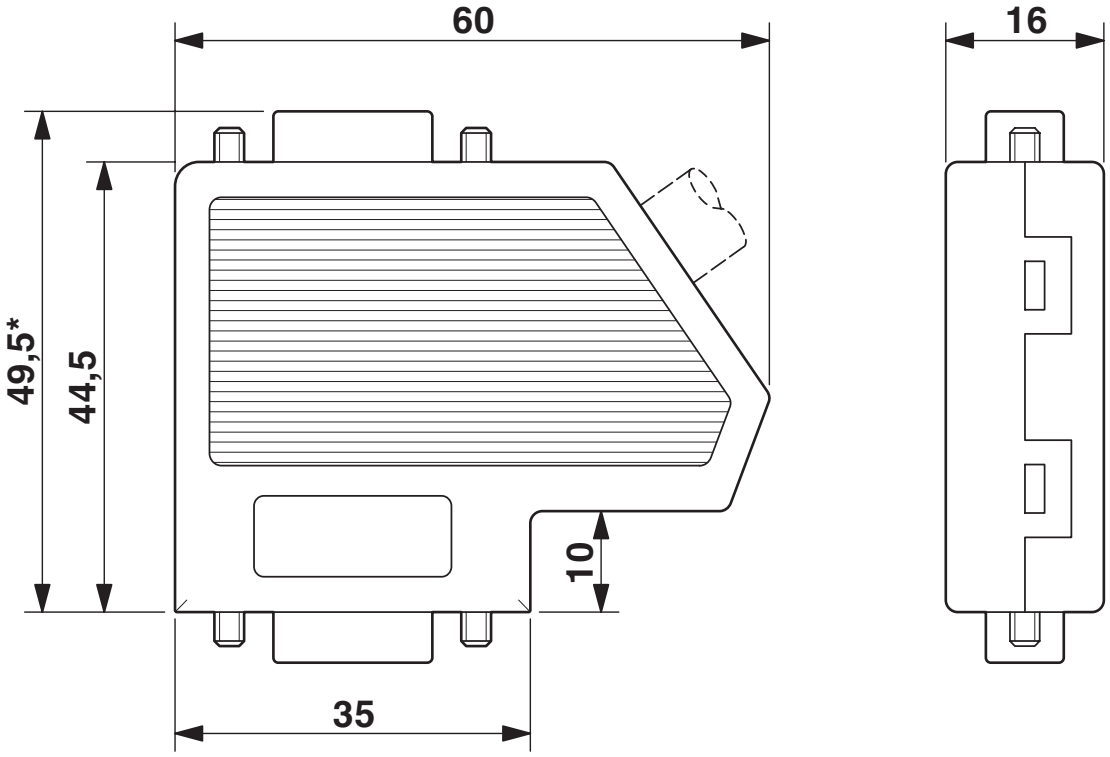
| | |
|---|---|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |

## Standards and regulations

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

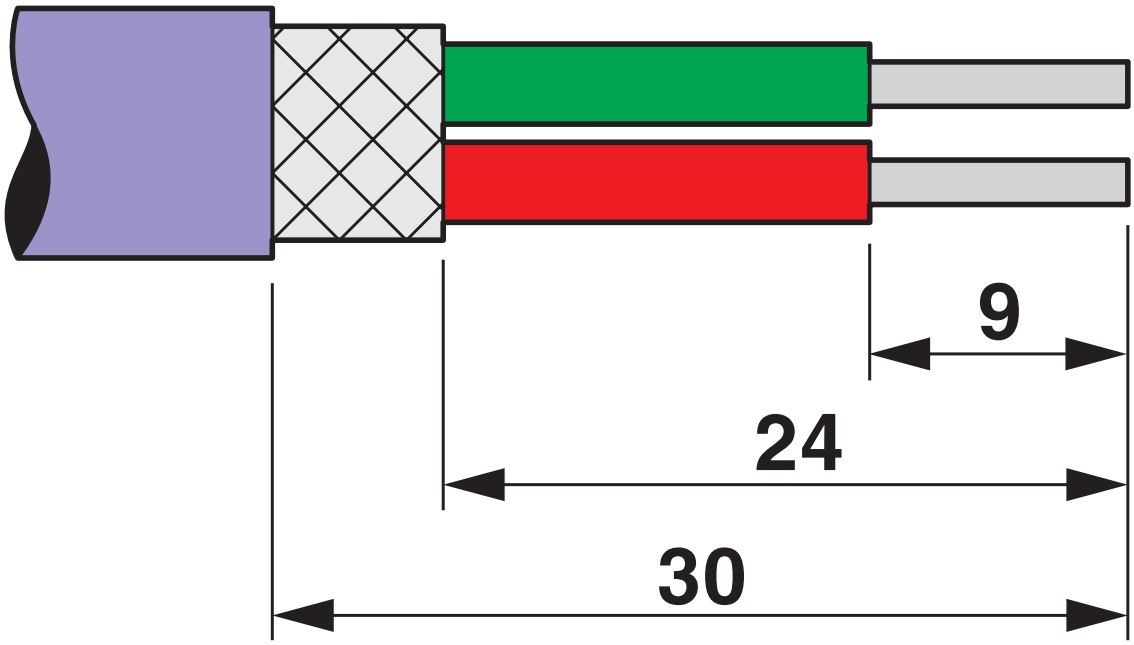
## Drawings

Dimensional drawing



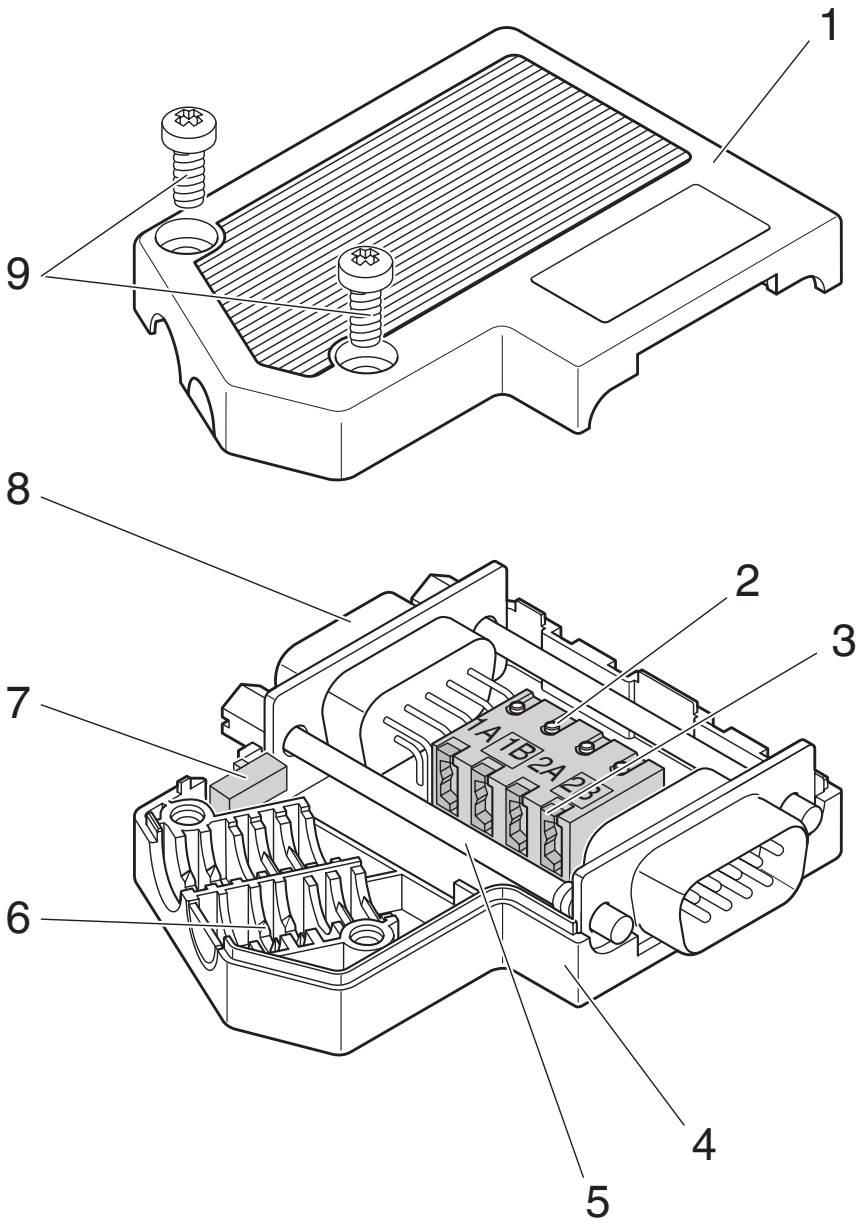

Dimensional drawing

Schematic diagram



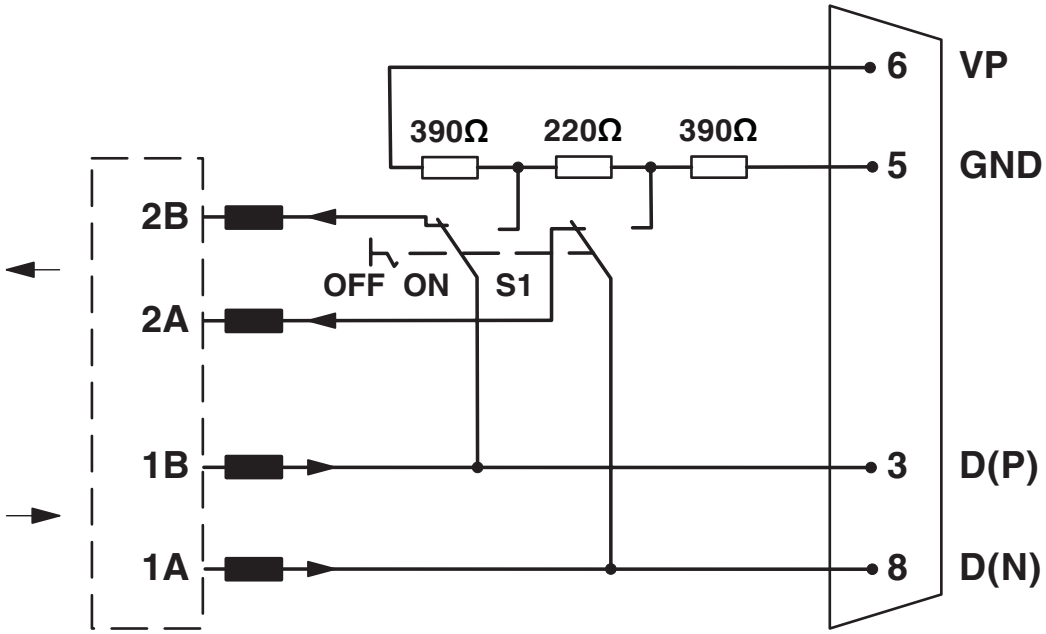

Stripping specifications

Schematic diagram




Function elements

Circuit diagram




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

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2744403

**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 |
| 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 | b1e097ff-71fd-4eb9-b0ae-6379ed498b85 |

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