

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

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D-SUB plug, 9-pos., pin, axial version with two cable entries, below 35°, bus system: PROFIBUS DP up to 12 Mbps, termination resistor can be switched on via slide switch, pin assignment: 3, 5, 6, 8; spring-cage connection terminal blocks

### Your advantages

- ✓ Suitable for all common Fast Connect PROFIBUS cables and RS-485 bus lines
- ✓ Change to the D-SUB orientation through a reversible connection block



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 017918 172947 |
| GTIN         | 4017918172947                                                                                           |
| Sales Key    | 07                                                                                                      |

### Technical data

#### Dimensions

|                     |         |
|---------------------|---------|
| Max. cable diameter | 8.4 mm  |
| Min. cable diameter | 7.6 mm  |
| Width               | 16 mm   |
| Height              | 49.5 mm |
| Length              | 60 mm   |

#### Ambient conditions

|                                         |                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------|
| 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) |

#### General

|                       |        |
|-----------------------|--------|
| Nominal voltage $U_N$ | 5 V    |
| Nominal current $I_N$ | 100 mA |

# D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

## Technical data

### General

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Bus system                  | PROFIBUS DP                                                              |
| Signal                      | PROFIBUS                                                                 |
| Insertion/withdrawal cycles | > 200                                                                    |
| SUBCON fixing screws        | 4-40 UNC                                                                 |
| Tightening torque           | 0.4 Nm                                                                   |
| Housing material            | ABS, metal-plated                                                        |
| Pin assignment              | 3, 5, 6, 8                                                               |
| 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%)    |

### Connection data

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Connection                         | D-SUB connection                    |
| Number of positions                | 9                                   |
| Connection method                  | D-SUB connector                     |
| Termination resistor               | 390 Ω                               |
|                                    | 220 Ω                               |
|                                    | 390 Ω (Can be connected externally) |
| Connection                         | PCB connection                      |
| Connection method                  | Spring-cage connection              |
| Conductor cross section solid min. | 0.12 mm²                            |
| Conductor cross section solid max. | 0.5 mm²                             |
| Conductor cross section AWG min.   | 26                                  |
| Conductor cross section AWG max.   | 20                                  |
| Stripping length                   | 5 mm                                |
| Tightening torque                  | 0.4 Nm                              |

### Conformance/approvals

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Designation     | EAC                                                                       |
| Identification  | EAC                                                                       |
| Designation     | ATEX                                                                      |
| Identification  | # II 3 G Ex nA IIC T4 Gc X                                                |
| Additional text | Please follow the special installation instructions in the documentation! |
| Designation     | 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 | according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard |
| Connection in acc. with standard                                  | CUL                                                            |

### Environmental Product Compliance

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

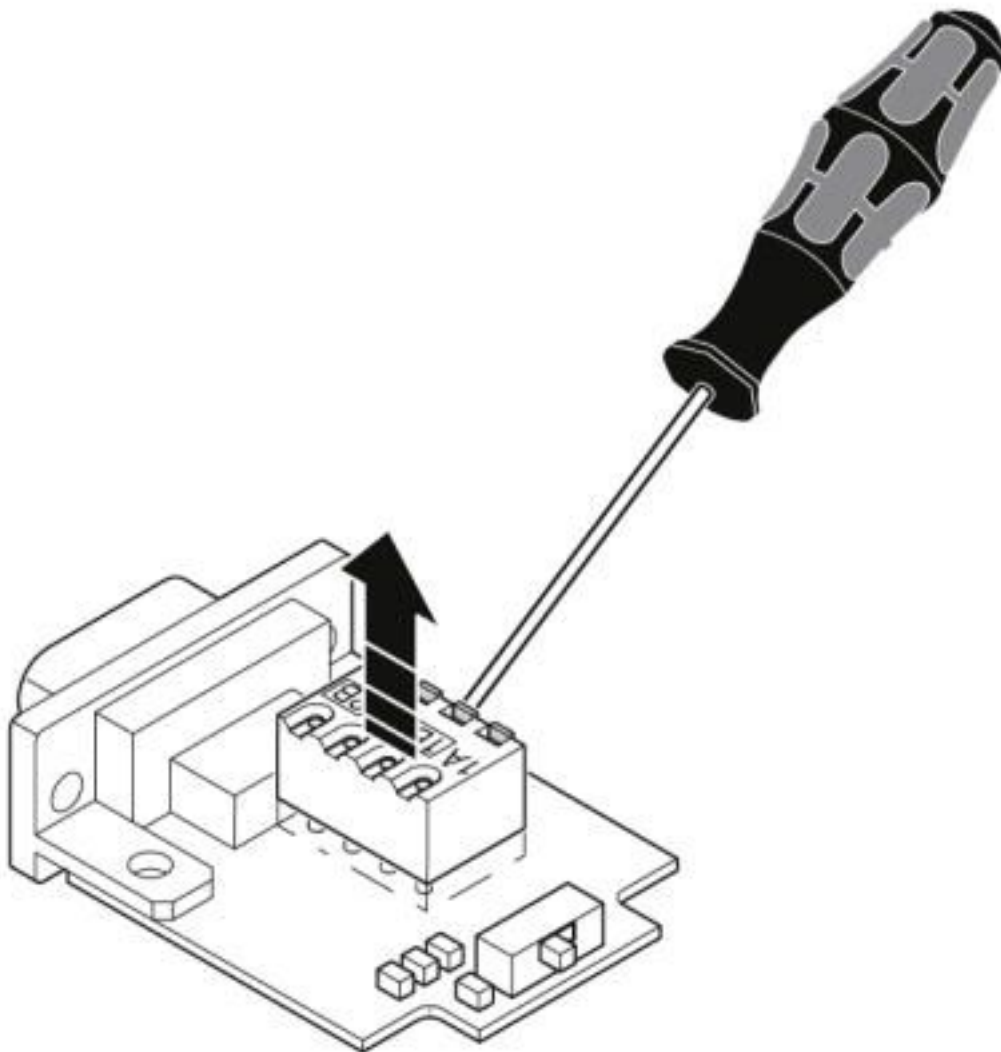
### Technical data

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

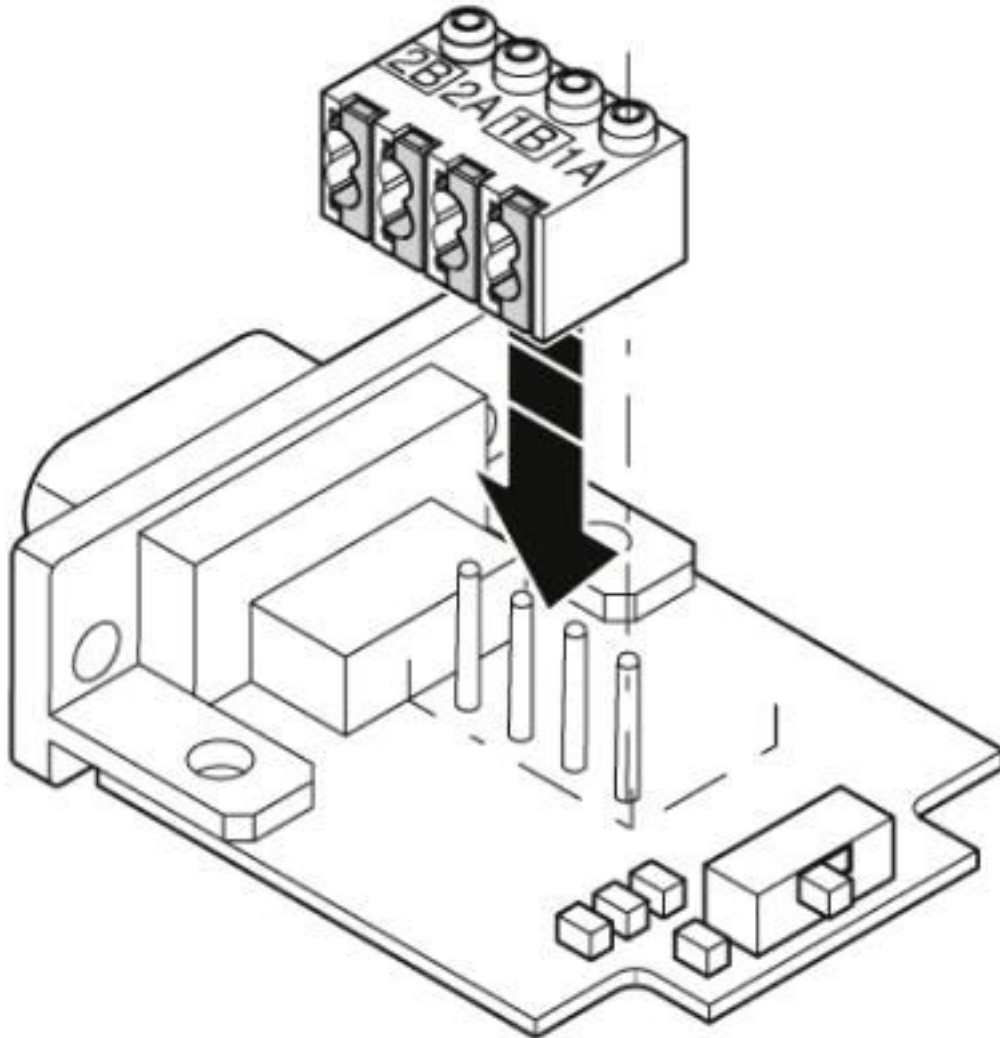
Schematic diagram



Right-hand side cable entry

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

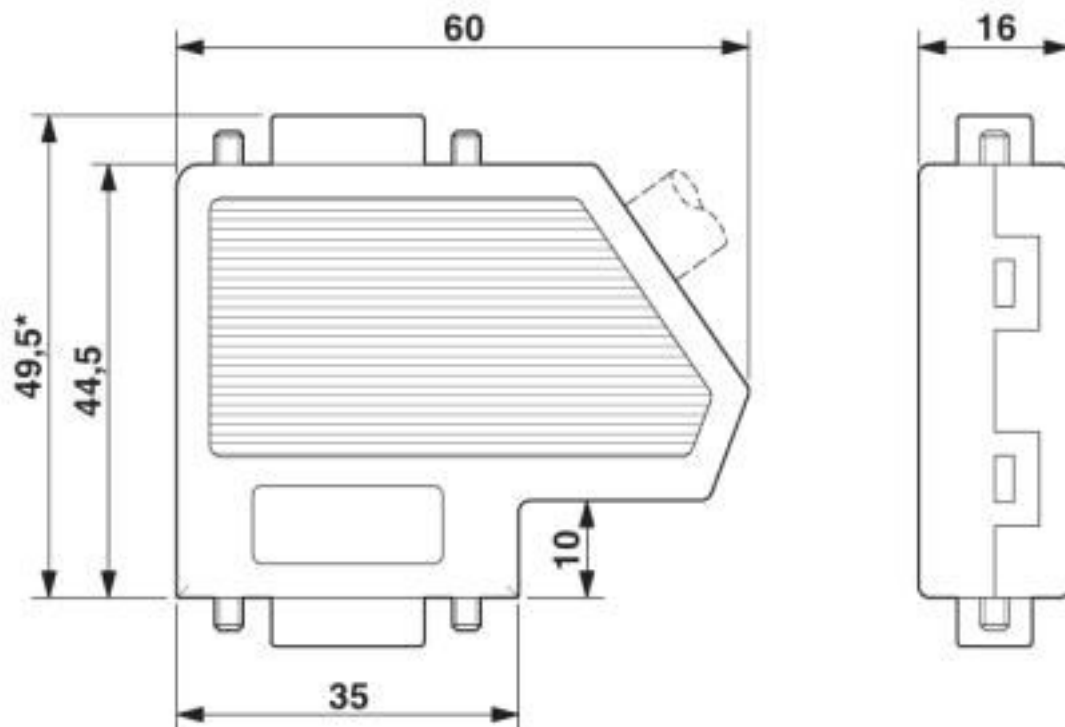
Schematic diagram



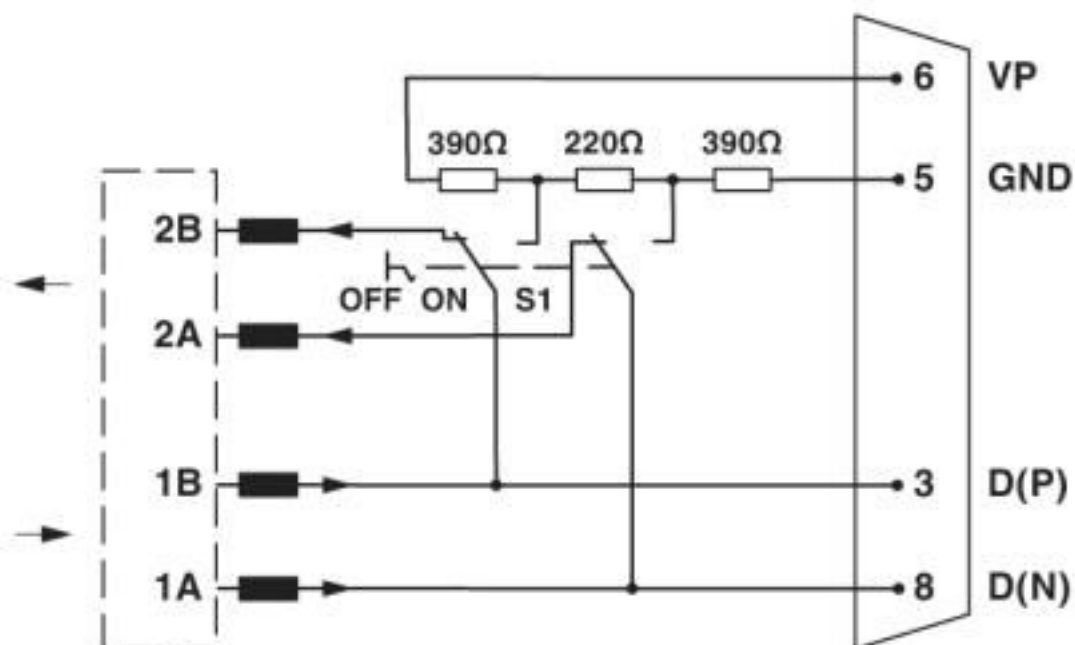
Right-hand side cable entry

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

Dimensional drawing



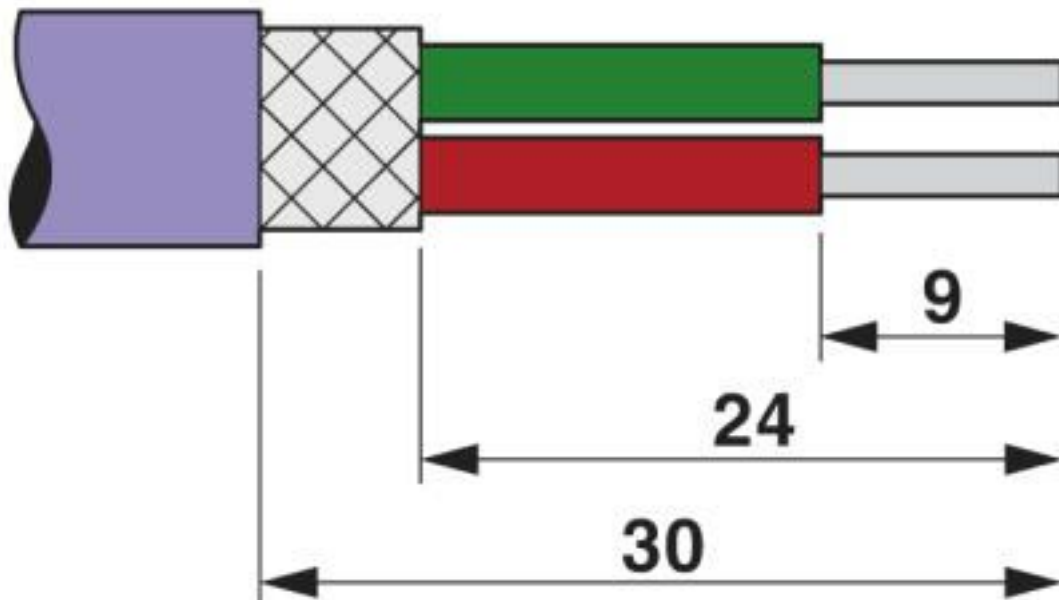
Circuit diagram



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

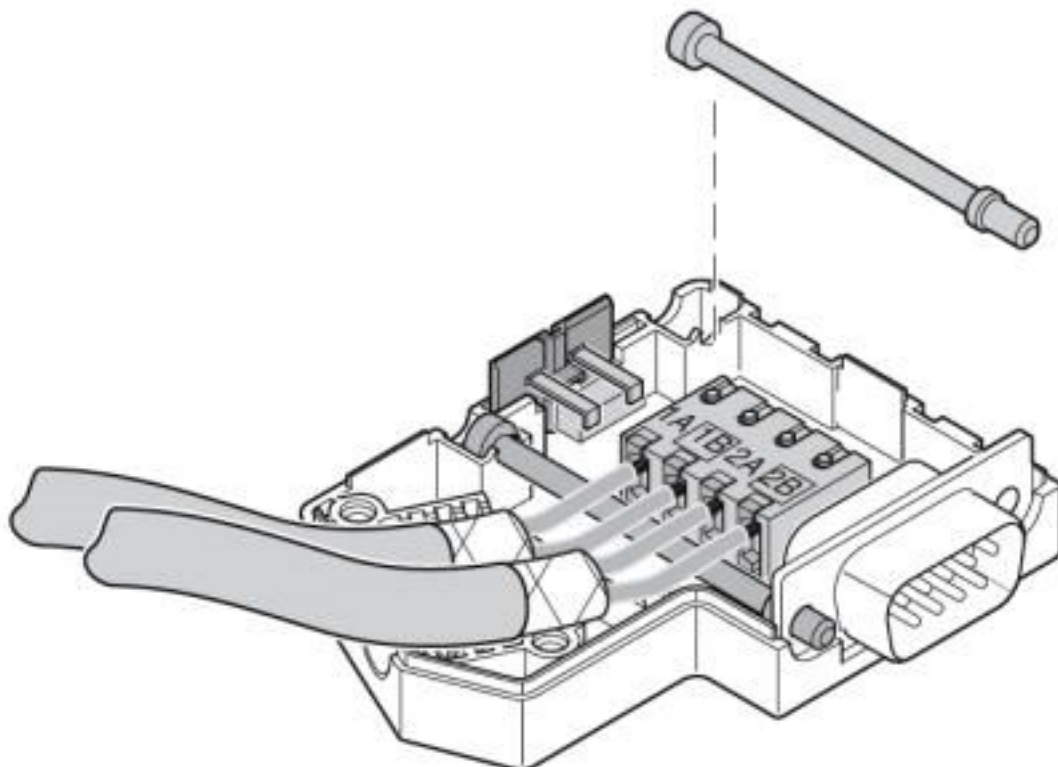
## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

Schematic diagram



Stripping specifications

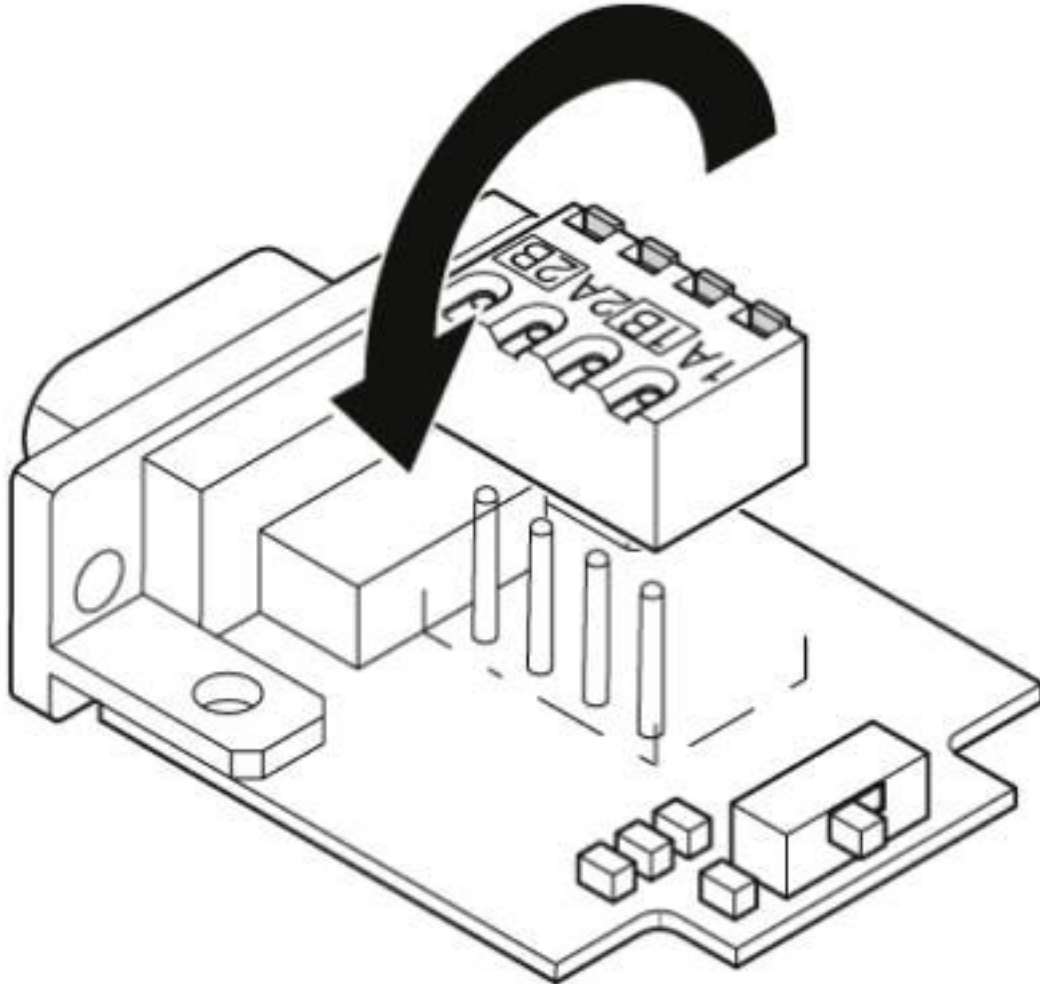
Schematic diagram



Left-hand side cable entry

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

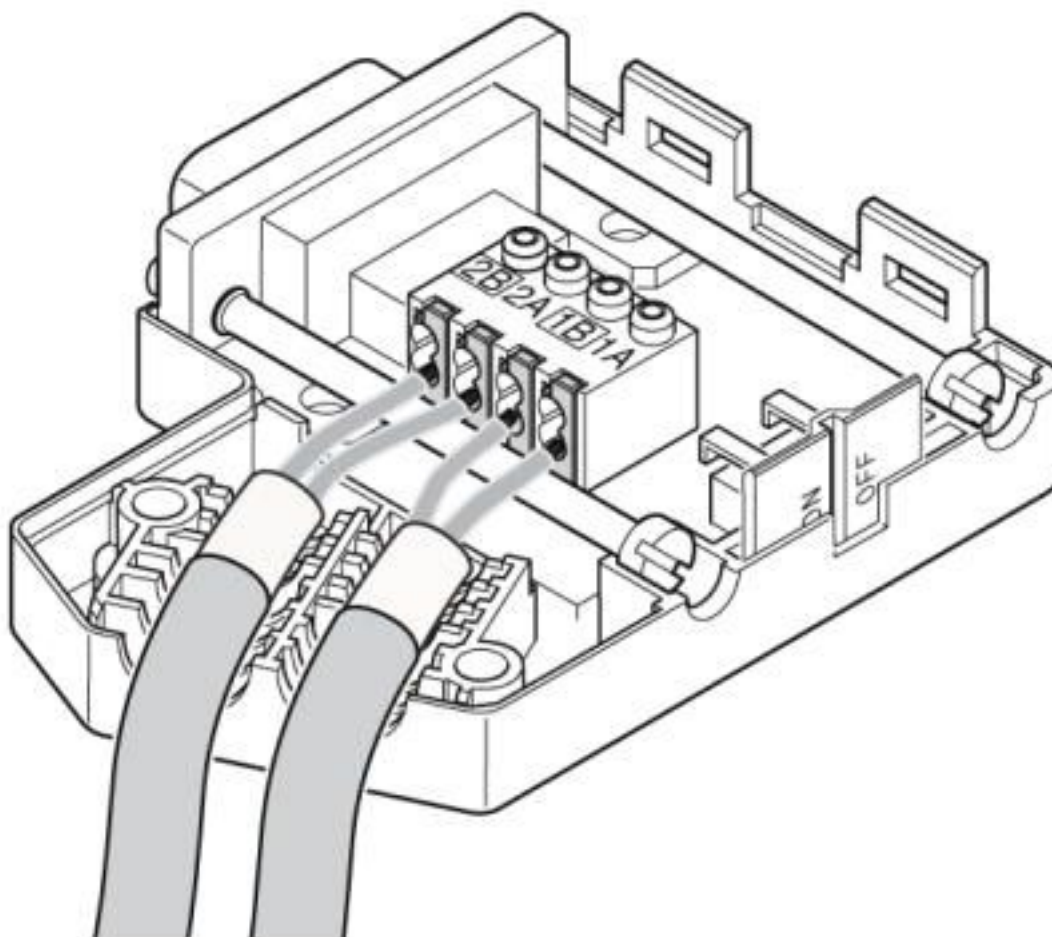
Schematic diagram



Right-hand side cable entry

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

Schematic diagram



Right-hand side cable entry

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440302 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27143400 |
| eCl@ss 6.0    | 27143400 |
| eCl@ss 7.0    | 27440302 |
| eCl@ss 8.0    | 27440302 |
| eCl@ss 9.0    | 27440302 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001132 |
| ETIM 3.0 | EC001132 |
| ETIM 4.0 | EC001132 |
| ETIM 5.0 | EC001132 |
| ETIM 6.0 | EC001132 |
| ETIM 7.0 | EC001132 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211802 |
| UNSPSC 7.0901 | 39121402 |
| UNSPSC 11     | 39121402 |
| UNSPSC 12.01  | 39121402 |
| UNSPSC 13.2   | 39121522 |
| UNSPSC 18.0   | 39121522 |
| UNSPSC 19.0   | 39121522 |
| UNSPSC 20.0   | 39121522 |
| UNSPSC 21.0   | 39121522 |

### Approvals

#### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### ATEX

#### Approval details

|               |                                                                                     |                                                                                                                                                       |               |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|                |                                                                                     |                                                                                                                                                       |               |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

### Approvals

EAC



EAC-Zulassung

cULus Recognized



### Accessories

#### Accessories

#### Data cable by the meter

Bus system cable - PSM-CABLE-PROFIB/FC - 2744652



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)

#### Data plug

Stripping tool - PSM-STRIP-FC/PROFIB - 2744623



Quick stripping tool for PROFIBUS cable, type Fast Connect

D-SUB bus connector - SUBCON-PLUS-PROFIB/PG/SC2 - 2708245



D-SUB connector, 9-pos., male connector, cable entry  $< 35^\circ$ , 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

D-SUB bus connector - SUBCON-PLUS-PROFIB/90/PG/IDC - 2313685



D-SUB connector, 9-pos., male connector, cable entry  $< 90^\circ$ , 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

## D-SUB bus connector - SUBCON-PLUS-PROFIB - 2744348

### Accessories

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#### D-SUB bus connector - SUBCON-PLUS-PROFIB/AX/SC - 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

### Screwdriver tools

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#### Screwdriver - SZF 0-0,4X2,5 - 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

#### Screwdriver - SZK PH1 VDE - 1205150



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

### Stripping tool

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#### Stripping pliers - QUICK WIREFOX 6 - 1204384



Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm<sup>2</sup>, wire cutting up to 6 mm<sup>2</sup> flexible or 4 mm<sup>2</sup> rigid

### Terminal resistor

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#### Termination resistor - PSI-TERMINATOR-PB-TBUS - 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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