

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



2708999

<https://www.phoenixcontact.com/us/products/2708999>

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D-SUB plug, 9-pos. socket, two 35° cable entries less than to two terminal block rows, bus system: CAN, CANopen, SafetyBUS p up to 1 Mbps, termination resistor can be switched on via slide switch, pin assignment: 2,3,7,9; screw connection terminal blocks

Product description

The SUBCON-PLUS-CAN/... D-SUB series is specifically designed for use in CAN systems. Under field conditions, it enables the quick and easy connection of the incoming and outgoing bus line. 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

- Separate terminal blocks for bus cables
- Segment-by-segment startup
- High transmission speed
- Flexibility in terms of cable entry selection
- High level of EMC
- Assembly under field conditions
- Suitable for bus cables according to CiA Draft Recommendation 303-1 with an outside diameter of 8 mm
- Termination resistor can be connected
- Change to the D-SUB orientation through a reversible connection block

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 2708999 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN10 |
| Product key | DNC541 |
| Catalog page | Page 448 (C-6-2019) |
| GTIN | 4046356082341 |
| Weight per piece (including packing) | 51.2 g |
| Weight per piece (excluding packing) | 47.6 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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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 | 2, 3, 7, 9 |

Electrical properties

| | |
|-----------------------|--------|
| Nominal voltage U_N | 5 V |
| Nominal current I_N | 100 mA |
| Transmission medium | Copper |

Connection data

D-SUB connection

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

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 | CAN, CANopen, SafetyBus-P |
| Signal | CAN |
| | CANopen® |
| | SafetyBUS p |

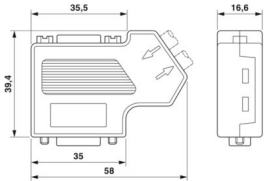
Dimensions

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| | |
|--|---------|
| Dimensional drawing | |
|  | |
| Width | 16.6 mm |
| Height | 39.4 mm |
| Length | 58 mm |

Material specifications

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|------------------|-------------------|
| 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 |

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

| | |
|----------------|-----|
| EAC | |
| Identification | EAC |

| | |
|----------------|---|
| ATEX | |
| Identification | Ⓔ II 3 G Ex nA IIC T4 Gc X |
| Note | Please follow the special installation instructions in the documentation! |

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

Standards and regulations

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Free from substances that could impair the application of coating

in accordance with VW-AUDI-Seat central standard P-VW 3.10.7
57 65 0

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001132 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

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

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