

# D-SUB bus connector - SUBCON 9/F-SH



2761499

<https://www.phoenixcontact.com/pc/products/2761499>

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D-SUB plug, 9-pos. female connector, one 35° cable entry, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

## Product Description

The 9-pos. version of the SUBCON-... connector range is not just suitable for INTERBUS, but is positively ideal. A whole host of further applications are opened up by having all the connections assigned to their own 1 mm<sup>2</sup> screw terminal block. The range covers SUBCON plugs for point-to-point connections with a cable infeed in 9, 15 and 25-pos. male or female versions. The optional fastening screw SUBCON-SHORT-SCREW is available as an accessory for narrow installation conditions. The screw is completely integrated into the housing by not having a knurl.

## Your advantages

- Easy assembly thanks to knurled screws
- Can be used universally
- High level of EMC
- Flexibility in terms of cable entry selection
- Assembly under field conditions
- Change to the D-SUB orientation through a reversible connection block

## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2761499             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales Key                            | 07                  |
| Product Key                          | DNC511              |
| Catalog Page                         | Page 451 (C-6-2019) |
| GTIN                                 | 4017918064730       |
| Weight per Piece (including packing) | 50.2 g              |
| Weight per Piece (excluding packing) | 49.1 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 | All connections are 1:1 on the screw terminal block                      |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 50 V DC |
| 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 solid min.         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.         | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.      | 1 mm <sup>2</sup>    |
| Single-wire/terminal point, solid AWG min. | 26                   |
| Single-wire/terminal point, solid AWG max. | 16                   |
| Min. AWG conductor cross section, flexible | 26                   |
| Max. AWG conductor cross section, flexible | 18                   |

### Interfaces

|        |        |
|--------|--------|
| Signal | RS-232 |
|        | RS-422 |
|        | RS-485 |

### Dimensions

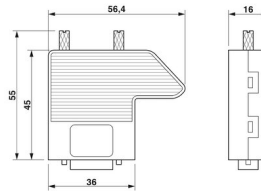
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2761499

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## Dimensional drawing



|        |         |
|--------|---------|
| Width  | 16 mm   |
| Height | 55 mm   |
| Length | 56.5 mm |

## Material specifications

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

## Cable / line

|                         |                                    |
|-------------------------|------------------------------------|
| External cable diameter | 4 mm ... 10 mm (Incoming bus line) |
|-------------------------|------------------------------------|

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 200 |
|-----------------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|  |  |
|--|--|
| Degree of protection                     | IP20   |
| 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)  |

## Approval data

### ATEX

|                |   |
|----------------|---|
| Identification | <input type="checkbox"/> 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

|   |  |
|---|--|
| 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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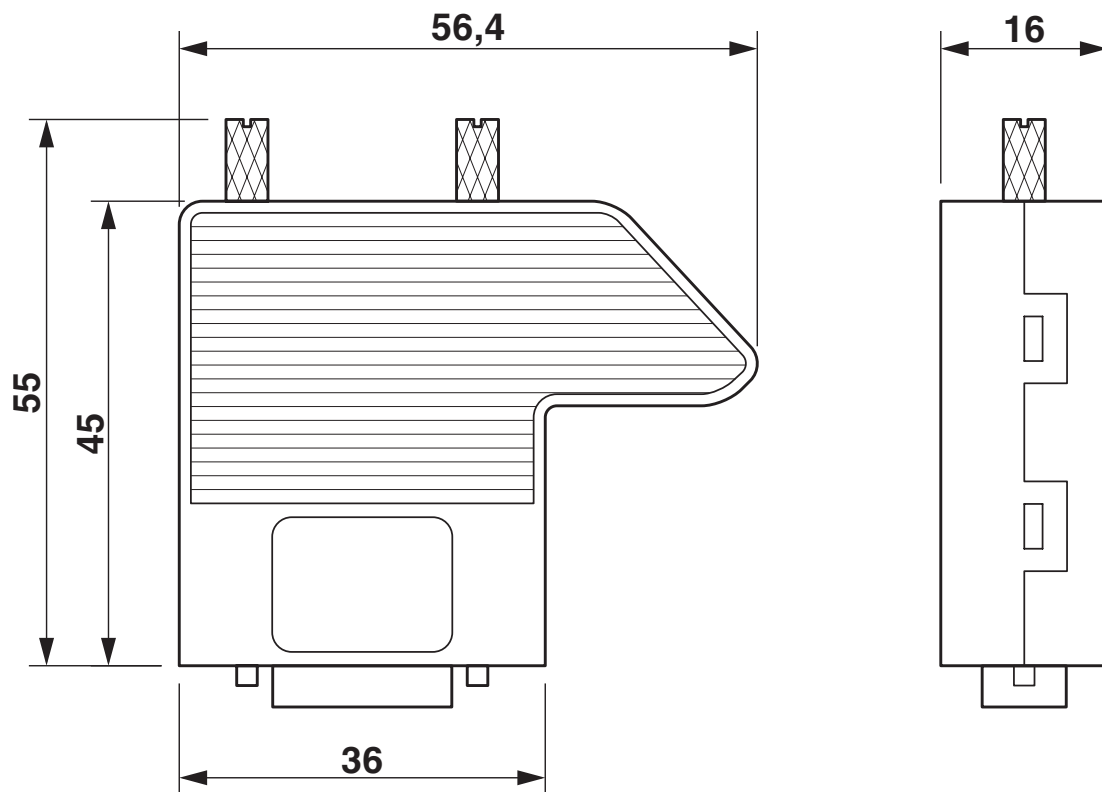
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## Drawings

Dimensional drawing



Dimensional drawing

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## Approvals

| cUL Recognized<br>Approval ID: FILE E 238705 |                                |                                |                   |                               |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  | Nominal Voltage U <sub>N</sub> | Nominal Current I <sub>N</sub> | Cross Section AWG | Cross Section mm <sup>2</sup> |
|  |                                |                                | -                 | -                             |

| UL Recognized<br>Approval ID: FILE E 238705 |                                |                                |                   |                               |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
|   | Nominal Voltage U <sub>N</sub> | Nominal Current I <sub>N</sub> | Cross Section AWG | Cross Section mm <sup>2</sup> |
|   |                                |                                | -                 | -                             |

| CSA<br>Approval ID: 2437602 |  |  |  |  |
|-----------------------------|--|--|--|--|
|-----------------------------|--|--|--|--|

| ATEX<br>Approval ID: PxCIF15ATEX2761499X |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

| cULus Recognized |  |  |  |  |
|------------------|--|--|--|--|
|------------------|--|--|--|--|

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27440302 |
| ECLASS-10.0.1 | 27440302 |
| ECLASS-11.0   | 27440302 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC001132 |
|----------|----------|

### UNSPSC

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

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## Environmental Product Compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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## Accessories

### Screw

Screw - SUBCON-SHORT-SCREW - 2799694

<https://www.phoenixcontact.com/pc/products/2799694>



Optional mounting screw, without knurl for narrow installation conditions, slotted head, length: 40 mm, UNC 4-40 thread Supplied as standard: 1 bag of 20 screws

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### Crimping pliers

Crimping pliers - CRIMPFOX-1,6-ER-1,50-GH - 1772793

<https://www.phoenixcontact.com/pc/products/1772793>



Crimping pliers, for IBS DSUB.../C

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## Screwdriver

Screwdriver - SZF 0-0,4X2,5 - 1204504

<https://www.phoenixcontact.com/pc/products/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

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## D-SUB bus connector

D-SUB bus connector - SUBCON 9/M-SH - 2761509

<https://www.phoenixcontact.com/pc/products/2761509>



D-SUB connector, 9-pos., male connector, one 35° cable entry, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

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## D-SUB gender changer

D-SUB gender changer - VS-09-GC-ST/ST - 1652651

<https://www.phoenixcontact.com/pc/products/1652651>

D-SUB contact insert, shell size 1, with nine signal contacts, type of contact pin, gender changer, fixing with 4-40 UNC thread



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## Screw

Screw - SUBCON-RAENDEL-SCREW-3MM - 2310387

<https://www.phoenixcontact.com/pc/products/2310387>



Optional mounting screw, with knurl for mounting by hand or using a screwdriver, bladed, length: 56 mm, metric M3 thread

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## Adapter

Adapter - PSM-AD-D9-NULLMODEM - 2708753

<https://www.phoenixcontact.com/pc/products/2708753>

V.24 (RS-232) zero modem connector



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