

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



2761499

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



D-SUB connector, 9-pos. socket, one 35° cable outlet, 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                            | DN10          |
| Product key                          | DNC511        |
| GTIN                                 | 4017918064730 |
| Weight per piece (including packing) | 43.98 g       |
| Weight per piece (excluding packing) | 36.43 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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



2761499

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

## 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 | 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, rigid min.        | 0.14 mm <sup>2</sup> |
| Conductor cross-section, rigid 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, 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

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

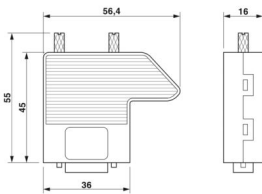
# SUBCON 9/F-SH - D-SUB bus connector



2761499

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

## Dimensions

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

## Material specifications

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

## Cable/line

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

## Mechanical properties

### Mechanical data

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

## Mechanical tests

|                                                                    |                                                                 |
|--------------------------------------------------------------------|-----------------------------------------------------------------|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | Shock (operation): 15g, 11 ms period, half-sine shock pulse     |

## 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)                                                          |

## Approvals

### ATEX

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| Identification | Ⓔ II 3 G Ex ec IIC T4 Gc                                                  |
| Certificate    | PxCIF15ATEX2761499X                                                       |
| Note           | Please follow the special installation instructions in the documentation! |

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



2761499

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

## UKEX

|                |                        |
|----------------|------------------------|
| Identification | II 3 G Ex ec IIC T4 Gc |
| Certificate    | PxCIMA22UKEX2761499X   |

## 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 |
|-------------------------------------------------------------------|--------------------|

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

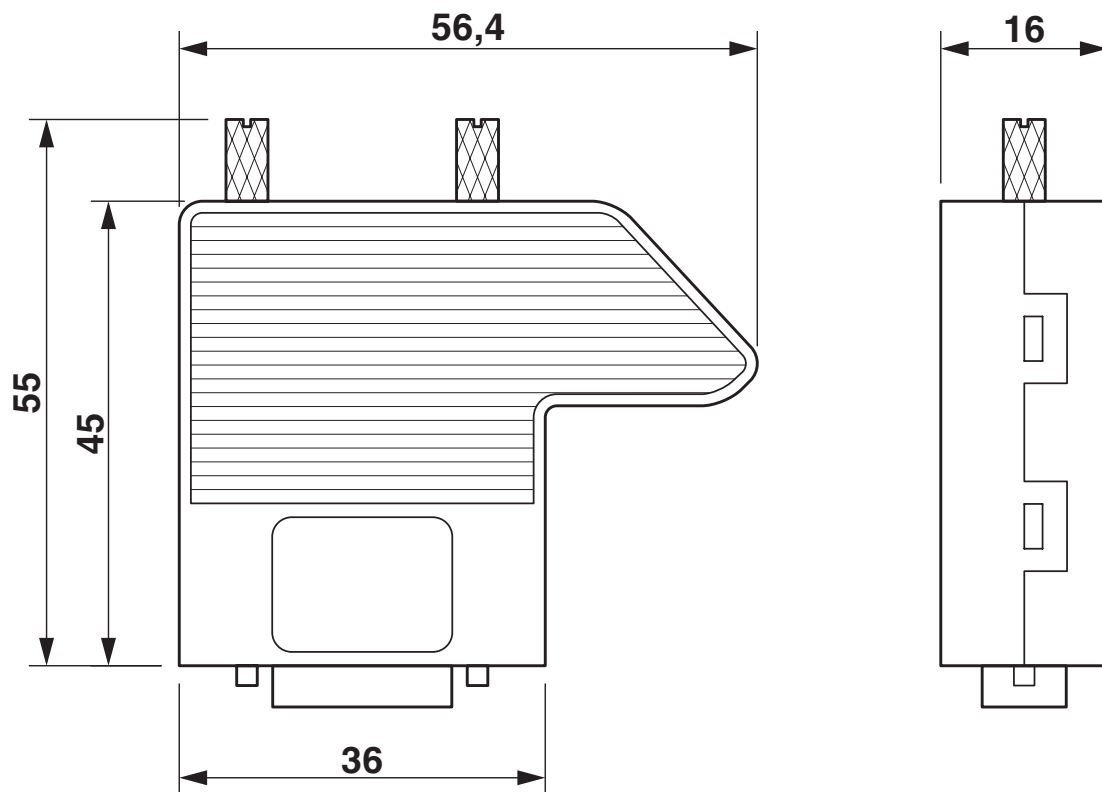
2761499

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



## Drawings

Dimensional drawing



Dimensional drawing

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



2761499

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

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2761499>



**CSA**

Approval ID: 2437602



**cULus Recognized**

Approval ID: E238705

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



2761499

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

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440302 |
| ECLASS-15.0 | 27440322 |

### ETIM

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

### UNSPSC

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

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



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

## 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%               |

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

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