

# SUBCON-PLUS-MODBUS/IL/BK - D-SUB bus connector



2310808

<https://www.phoenixcontact.com/us/products/2310808>

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D-SUB connector, 9-pos., male connector, two 35° cable entries, bus system: for Inline Modbus RTU/ASCII bus coupler termination resistance can be connected via slide switch, pin assignment: 3, 5, 6, 8; screw connection terminal blocks

## Your advantages

- Change to the D-SUB orientation through a reversible connection block



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2310808       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN10          |
| Product key                          | DNC512        |
| GTIN                                 | 4046356124461 |
| Weight per piece (including packing) | 42 g          |
| Weight per piece (excluding packing) | 41.8 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### 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

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

### Connection data

#### D-SUB connection

|                   |                 |
|-------------------|-----------------|
| Connection method | D-SUB connector |
|-------------------|-----------------|

#### 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.        | 0.5 mm <sup>2</sup>  |
| Conductor cross-section flexible min.      | 0.14 mm <sup>2</sup> |
| Conductor cross-section flexible max.      | 0.5 mm <sup>2</sup>  |
| Single-wire/terminal point, rigid AWG min. | 26                   |
| Single-wire/terminal point, rigid AWG max. | 20                   |
| Min. AWG conductor cross-section, flexible | 26                   |
| Max. AWG conductor cross-section, flexible | 20                   |
| Tightening torque                          | 0.22 Nm ... 0.25 Nm  |

### Interfaces

|        |        |
|--------|--------|
| Signal | Modbus |
|--------|--------|

### Dimensions

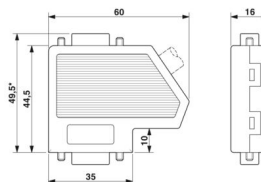
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Dimensional drawing



|        |         |
|--------|---------|
| 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 ... 10 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

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

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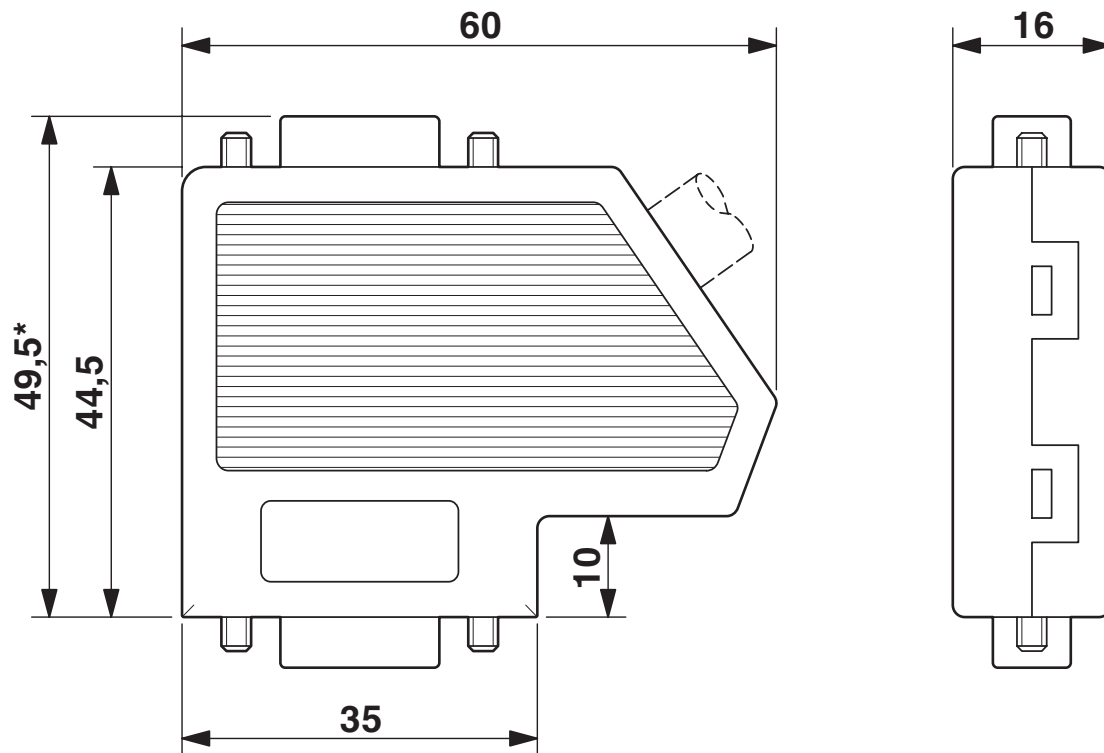


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## Drawings

Dimensional drawing



Dimensional drawing

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2310808>



**cULus Recognized**  
Approval ID: E238705

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001132 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |        |
|-----------------------------------------|--------|
| Fulfills EU RoHS substance requirements | Yes    |
| Exemption                               | 7(c)-I |

### 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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