

## D-SUB bus connector - SUBCON-PLUS-M/AX 9 - 2904467

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D-SUB plug, 9-pos., pin, axial design with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

### Your advantages

- ✓ Assembly under field conditions
- ✓ Separate terminal blocks for each cable
- ✓ High transmission speed
- ✓ Easy assembly thanks to knurled screws
- ✓ High level of EMC
- ✓ For universal use



**RS-485**  **RS-232RS-422**

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 046356 825573 |
| GTIN                                 | 4046356825573                                                                                           |
| Weight per Piece (excluding packing) | 40.000 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Germany                                                                                                 |

### Technical data

#### Dimensions

|                     |         |
|---------------------|---------|
| Max. cable diameter | 8.4 mm  |
| Min. cable diameter | 7.6 mm  |
| Width               | 17 mm   |
| Height              | 31.5 mm |

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## Technical data

### Dimensions

|        |         |
|--------|---------|
| Length | 58.2 mm |
|--------|---------|

### Ambient conditions

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Ambient temperature (operation)         | -20 °C ... 75 °C                                         |
| Ambient temperature (storage/transport) | -25 °C ... 80 °C                                         |
| Altitude                                | 5000 m (For restrictions see manufacturer's declaration) |
| Degree of protection                    | IP30                                                     |

### General

|                             |                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------|
| Nominal voltage $U_N$       | 50 V                                                                                                       |
| Nominal current $I_N$       | 100 mA                                                                                                     |
| Bus system                  | Universal type for all systems                                                                             |
| Signal                      | RS-232                                                                                                     |
|                             | RS-422                                                                                                     |
|                             | RS-485                                                                                                     |
| Insertion/withdrawal cycles | > 200                                                                                                      |
| SUBCON fixing screws        | 4-40 UNC                                                                                                   |
| Tightening torque           | 0.4 Nm                                                                                                     |
| Housing material            | ABS, metal-plated                                                                                          |
| Pin assignment              | 1, 2, 3, 4, 5, 6, 7, 8, 9                                                                                  |
| MTTF                        | 6706 Years (SN 29500 standard, temperature 25 °C, operating cycle 21 % (5 days a week, 8 hours a day))     |
|                             | 1817 Years (SN 29500 standard, temperature 40 °C, operating cycle 34.25 % (5 days a week, 12 hours a day)) |
|                             | 155 Years (SN 29500 standard, temperature 40 °C, operating cycle 100 % (7 days a week, 24 hours a day))    |

### Connection data

|                                            |                      |
|--------------------------------------------|----------------------|
| Connection                                 | D-SUB connection     |
| Number of positions                        | 9                    |
| Connection method                          | D-SUB connector      |
| Tightening torque                          | 0.4 Nm               |
| Torque                                     | 0.4 Nm               |
| Connection                                 | PCB connection       |
| Connection method                          | Screw connection     |
| Conductor cross section flexible min.      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.      | 0.5 mm <sup>2</sup>  |
| Conductor cross section solid min.         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.         | 0.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible | 26                   |

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Technical data

Connection data

|                                            |        |
|--------------------------------------------|--------|
| Max. AWG conductor cross section, flexible | 20     |
| Conductor cross section AWG min.           | 26     |
| Conductor cross section AWG max.           | 20     |
| Stripping length                           | 4.5 mm |
| Torque                                     | 0.4 Nm |

Standards and Regulations

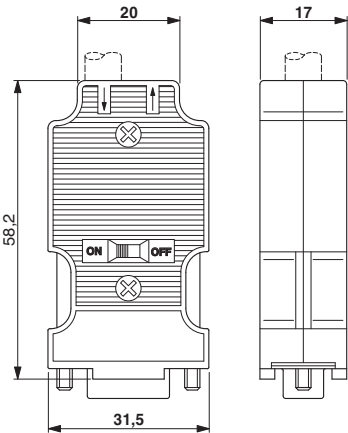
|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| Free from substances that could impair the application of coating | according to P-VW 3.10.7 57 65 0 VW-AUDI-Seat central standard |
| ATEX                                                              | # II 3 G Ex nA IIC T4 Gc X                                     |
| Noxious gas test                                                  | ISA-S71.04-1985 G3 Harsh Group A                               |

Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Dimensional drawing



Dimensional drawing SUBCON-PLUS-.../AX...

Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140816 |
| eCl@ss 4.1 | 27140816 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27143424 |
| 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 |

#### ETIM

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

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211802 |
| UNSPSC 7.0901 | 39121402 |
| UNSPSC 11     | 39121402 |
| UNSPSC 12.01  | 39121402 |
| UNSPSC 13.2   | 39121522 |

### Approvals

#### Approvals

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UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### ATEX

#### Approval details

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

# D-SUB bus connector - SUBCON-PLUS-M/AX 9 - 2904467

## Approvals

|                  |                                                                                   |                                                                                                                                                       |               |
|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 |
| EAC              |  |                                                                                                                                                       | EAC-Zulassung |
| cULus Recognized |  |                                                                                                                                                       |               |

## Accessories

### Accessories

#### Adapter

Adapter - PSM-AD-D9-NULLMODEM - 2708753



V.24 (RS-232) zero modem connector

#### Data plug

D-SUB gender changer - VS-09-GC-BU/BU - 1688722



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

D-SUB bus connector - SUBCON-PLUS-F/AX 9 - 2311797



D-SUB connector, 9-pos. female connector, axial version with two cable entries, universal type for all systems, pin assignment: 1, 2, 3, 4, 5, 6, 7, 8, 9 to screw connection terminal block

## D-SUB bus connector - SUBCON-PLUS-M/AX 9 - 2904467

### Accessories

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



D-SUB connector, 9-pos., male connector, one cable entry < 35°, 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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### Screwdriver tools

#### Screwdriver - SZK PH1 VDE - 1205150



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

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#### Screwdriver - SZS 0,4X2,0 - 1205202



Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap

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### Stripping tool

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



Stripping tool for cables with PVC insulation, stripping range: 0.08 to 6 mm², wire cutting up to 6 mm² flexible or 4 mm² rigid