# VS-09-CAN - D-SUB connector

1689307

https://www.phoenixcontact.com/us/products/1689307

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D-SUB connector, degree of protection: IP20, number of positions: 9, material: Plastic, connection method: Screw connection, connection cross section: AWG 26- 20, cable outlet: slanted, with integrated termination resistor, housing size: 1, color: gray, CAN

## Product description

D-SUB complete connectors for CANopen

## Your advantages

- EMC protection
- Switchable termination resistor
- Coding sections (CR) as protection against mismatching

## Commercial data

| | |
|---|---|
| Item number | 1689307 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB19 |
| Product key | ABNCBA |
| GTIN | 4017918881016 |
| Weight per piece (including packing) | 92.3 g |
| Weight per piece (excluding packing) | 92.3 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

# Technical data

## Notes

Safety note

| | |
|---|---|
| Safety note | WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. |
| | • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible. |
| | • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. |
| | • The products are suitable for applications in plant, controller, and electrical device engineering. |
| | • When operating the connectors in outdoor applications, they must be separately protected against environmental influences. |
| | • Assembled products may not be manipulated or improperly opened. |
| | • Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products). |
| | • When using the product in direct connection with third-party manufacturers, the user is responsible. |
| | • For operating voltages > 50 V AC, conductive connector housings must be grounded |
| | • Only use tools recommended by Phoenix Contact |
| | • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. |
| | • Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products |
| | • Operate the connector only when it is fully plugged in and interlocked. |
| | • Operate the connector only when it is fully plugged in. |
| | • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. |
| | • Observe the minimum bending radius of the cable. Lay the cable without twisting it. |
| | • VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector |

## Product properties

| | |
|---|---|
| Product type | Data connector (cable side) |
| Application | CAN |
| Type | D-SUB |
| Sensor type | CAN |
| Number of positions | 9 |
| Connection profile | D-SUB |
| No. of cable outlets | 2 |
| Shielded | yes |
| Cable outlet | slanted |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 2 |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 63 V |
| Rated current | 1 A |
| Transmission medium | Copper |

## Connection data

Connection technology

| | |
|---|---|
| Connection method | Screw connection |
| Connection cross section AWG | 26 ... 20 |
| Conductor cross section | 0.14 mm² ... 0.5 mm² |

## Material specifications

| | |
|---|---|
| Color | gray |
| Flammability rating according to UL 94 | V0 |
| Housing material | Plastic |
| Cable seal material | CR/NBR |
| Contact material | Copper alloy |
| Contact surface material | Gold over nickel |
| Contact carrier material | PBTP |

## Cable/line

| | |
|---|---|
| External cable diameter | 5 mm ... 9 mm |
| Stripping length of the individual wire | 4.5 mm |
| Cable cross section | 0.14 mm² |

## Mechanical properties

Mechanical data

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|---|---|
| Insertion/withdrawal cycles | ≥ 200 |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 75 °C |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440290 |
| ECLASS-15.0 | 27440290 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002943 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

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.) | Lead(CAS: 7439-92-1) |
| SCIP | 1a3af90d-9029-4e52-9311-9c198f826b3e |




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