

# VS-09-PROFIBUS-SP - D-SUB connector



1654345

<https://www.phoenixcontact.com/us/products/1654345>

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D-SUB connector, degree of protection: IP67, number of positions: 9, material: Plastic, connection method: Spring-cage connection, connection cross section: AWG 26- 16, cable outlet: angled, housing size: 1, color: gray, PROFIBUS

## Your advantages

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

## Commercial data

Item number	1654345
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB19
Product key	ABNCBA
Catalog page	Page 444 (C-2-2019)
GTIN	4017918970628
Weight per piece (including packing)	93.8 g
Weight per piece (excluding packing)	93.8 g
Customs tariff number	85369010
Country of origin	DE

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## 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](https://www.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](https://www.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](https://www.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

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

## Insulation characteristics

Overvoltage category	II
Degree of pollution	2

## Electrical properties

Rated voltage (III/3)	50 V
Rated surge voltage	0.5 kV
Rated current	1 A
Transmission medium	Copper

## Connection data

### Connection technology

Connection method	Spring-cage connection
Connection cross section AWG	26 ... 16 (solid)
	26 ... 18 (flexible)
Conductor cross section	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (solid)
	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (flexible)

## 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	7.5 mm
Cable cross section	0.2 mm <sup>2</sup>

## Mechanical properties

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### Mechanical data

Insertion/withdrawal cycles	≥ 200
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### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-20 °C ... 75 °C

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## Classifications

### ECLASS

ECLASS-13.0	27440290
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### ETIM

ETIM 9.0	EC002943
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### UNSPSC

UNSPSC 21.0	39121400
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## 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	164fca08-2ba0-4222-aaa7-7dd615ca2027

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