

# VS-09-BU-DSUB-ER - D-SUB connector



1688405

<https://www.phoenixcontact.com/us/products/1688405>

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 contact insert, shell size 1, with 9 signal contacts, type of contact socket, for PCB mounting, angled, fixing with M3 thread and solder pins, for panel mounting frame VS-09-...



## Your advantages

- D-SUB 9 connection
- Compatible with IP67 sleeve housing and panel-mount frame
- Easy assembly

## Commercial data

Item number	1688405
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	AB19
Product key	ABNCAB
GTIN	4017918818326
Weight per piece (including packing)	12.35 g
Weight per piece (excluding packing)	12.35 g
Customs tariff number	85366990
Country of origin	DE

# VS-09-BU-DSUB-ER - D-SUB connector



1688405

<https://www.phoenixcontact.com/us/products/1688405>

## Technical data

### Notes

#### Safety note

Safety note	• 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	Contact insert
Type	D-SUB
Number of positions	9
Connection profile	D-SUB
Number of slots	1
Shielded	yes

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	2

### Electrical properties

Rated voltage in acc. with IEC 61076-2-101	400 V
Rated voltage (III/3)	125 V
Rated surge voltage	1 kV
Rated current	5 A (at 20 °C)
Test voltage	1200 V
Transmission medium	Copper
Power transmission	Power

### Connection data

Connection method	Wave soldering contacts
-------------------	-------------------------

### Dimensions

Width	21.6 mm
Height	17.6 mm
Length	31.19 mm

### Material specifications

Flammability rating according to UL 94	V0
Housing material	Metal
Housing surface material	metal-plated
Contact material	Copper alloy
Contact surface material	Gold
Contact carrier material	PBT-GF

# VS-09-BU-DSUB-ER - D-SUB connector



1688405

<https://www.phoenixcontact.com/us/products/1688405>

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 50
Insertion force per signal contact	≤ 3.40 N

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-55 °C ... 125 °C

## Mounting

Mounting type	Screw mounting
---------------	----------------

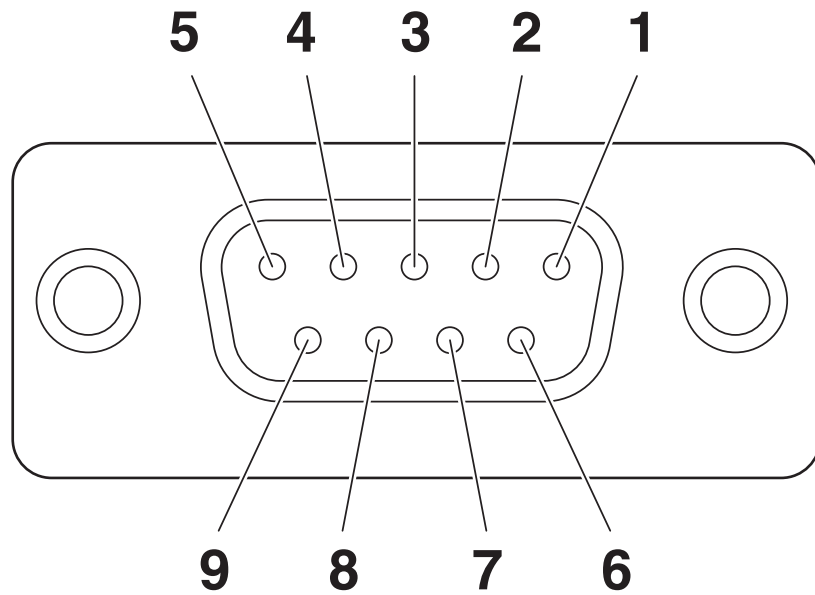
# VS-09-BU-DSUB-ER - D-SUB connector

1688405

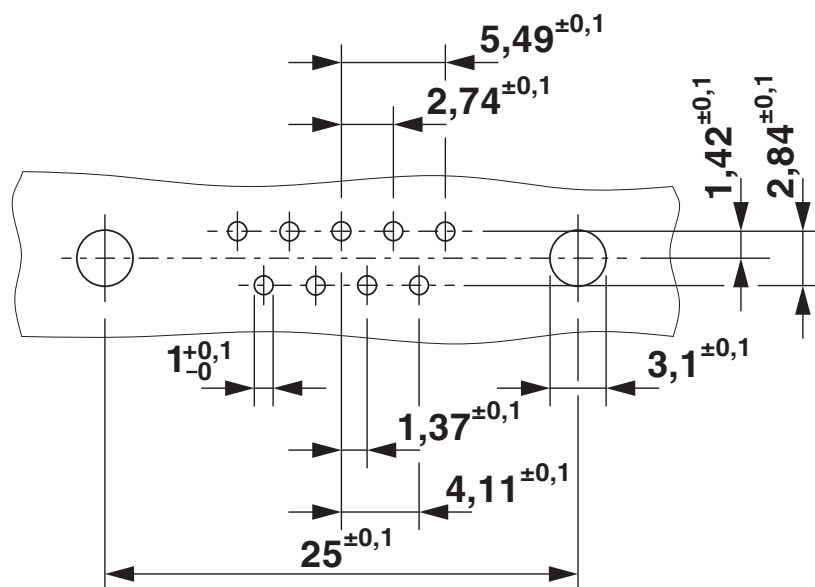
<https://www.phoenixcontact.com/us/products/1688405>

## Drawings

Schematic diagram



Drilling plan/solder pad geometry



Drilling diagram

# VS-09-BU-DSUB-ER - D-SUB connector



1688405

<https://www.phoenixcontact.com/us/products/1688405>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1688405>



**UL Recognized**

Approval ID: E118976

# VS-09-BU-DSUB-ER - D-SUB connector



1688405

<https://www.phoenixcontact.com/us/products/1688405>

## Classifications

### ECLASS

ECLASS-13.0	27440302
ECLASS-15.0	27440323

### ETIM

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

### UNSPSC

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

1688405

<https://www.phoenixcontact.com/us/products/1688405>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 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	0f9883a2-d089-449b-96c3-09f37d2b447f

### EF3.1 Climate Change

CO2e kg	0.725 kg CO2e
---------	---------------

Phoenix Contact 2026 © - 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)