

# VS-09-SET-EMV - D-SUB connector set

1689158

<https://www.phoenixcontact.com/us/products/1689158>



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D-SUB connector set, shell size 1, IP67 protection, with shrouds



## Commercial data

Item number	1689158
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB19
Product key	ABNCBA
GTIN	4017918890568
Weight per piece (including packing)	77.9 g
Weight per piece (excluding packing)	77.9 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

#### Safety note

Safety note	<p><b>WARNING:</b> The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• <b>WARNING:</b> Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li><li>• <b>WARNING:</b> 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.</li><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Only use tools recommended by Phoenix Contact</li><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li><li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li><li>• Operate the connector only when it is fully plugged in and interlocked.</li><li>• Operate the connector only when it is fully plugged in.</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li><li>• 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</li></ul>
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### Product properties

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Product type	Data connector (cable side)
Application	Housing set
Type	D-SUB
Sensor type	Universal
Number of positions	9
No. of cable outlets	2
Shielded	yes
Cable outlet	slanted

## Insulation characteristics

Degree of pollution	2
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## Electrical properties

Transmission medium	Copper
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## Connection data

Connection technology	
Connection method	D-SUB

## Material specifications

Color	gray
Flammability rating according to UL 94	V0
Seal material	Flat gasket: NBR; profile gasket: EPDM
Housing material	Plastic
Cable seal material	CR/NBR

## Cable/line

External cable diameter	3 mm ... 9 mm
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## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 1000

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 80 °C

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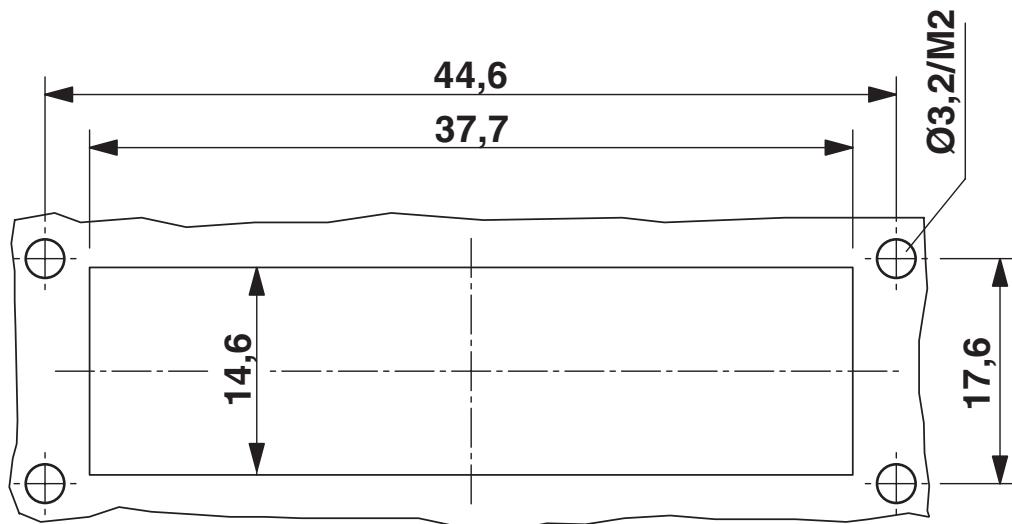
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## Drawings

Dimensional drawing



Mounting cutout

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## Classifications

### ECLASS

ECLASS-13.0	27440290
ECLASS-15.0	27440324

### 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, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	56bc7754-0e31-47a2-a5b8-e64af8818dd6

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