

# HC-M-EMV-BU/3-9,5 - Connector

1636091

<https://www.phoenixcontact.com/us/products/1636091>



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HEAVYCON EMC connector, socket version, 4-pos., for connecting shielded conductors with 3 - 9.5 mm external conductor diameter. For use in the HC-M-02-EMC-F plastic module

## Commercial data

Item number	1636091
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACB
GTIN	4017918962913
Weight per piece (including packing)	32.77 g
Weight per piece (excluding packing)	26.83 g
Customs tariff number	85389099
Country of origin	CN

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## Technical data

### Notes

General	The potential of the EMC connector housing is isolated from the potential of the heavy connector.
General	for CK 1,6...ED... crimp contacts (note in scope of delivery)
General	Clamps for the clamping range of 3 mm - 6 mm and 6 mm - 9.5 mm

### Product properties

Product type	EMC insert, modular
Series	HC-M-EMV
Application	Data/signal
Number of positions	4
Connection profile	4
Contact numbering	1 - 4
No. of cable outlets	1
No. of power contacts	0
No. of control contacts	4
Contact material type	turned rolled
Shielded	yes

### Insulation characteristics

Ovvoltage category	III
Degree of pollution	3

### Electrical properties

Rated voltage (III/3)	48 V
Rated surge voltage	0.8 kV
Rated current	10 A
Transmission characteristics (category)	CAT5e

### Connection data

Connection technology	
Connection technology	Crimp connection
Conductor connection	
Conductor cross section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (6 mm with 2.5 mm <sup>2</sup> )

### Dimensions

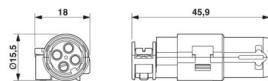
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## Dimensional drawing



Width

18 mm

Height

15.5 mm

Length

46 mm

## Mechanical characteristics

Contact diameter

1.6 mm

## Material specifications

Material	Zinc alloy
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC

## Cable/line

External cable diameter	3 mm ... 9.5 mm
Wire diameter including insulation	2.4 mm
Stripping length of the individual wire	8 mm (6 mm with 2.5 mm <sup>2</sup> )

## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 500

## Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-40 °C ... 85 °C

## Mounting

Assembly note	Housing height ≥ 72 mm. Plug-in connections may only be operated only when there is no load/voltage.
	For use in HC-M-EMV-MOD-BU plastic module, usable CK1,6-ED-... crimp contacts

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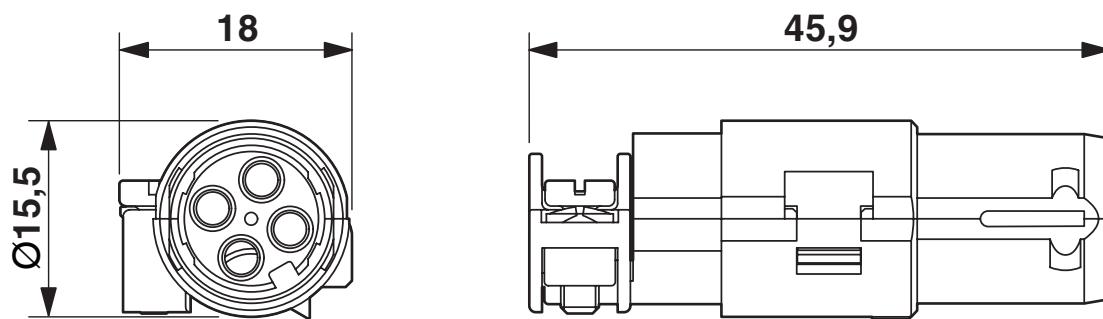
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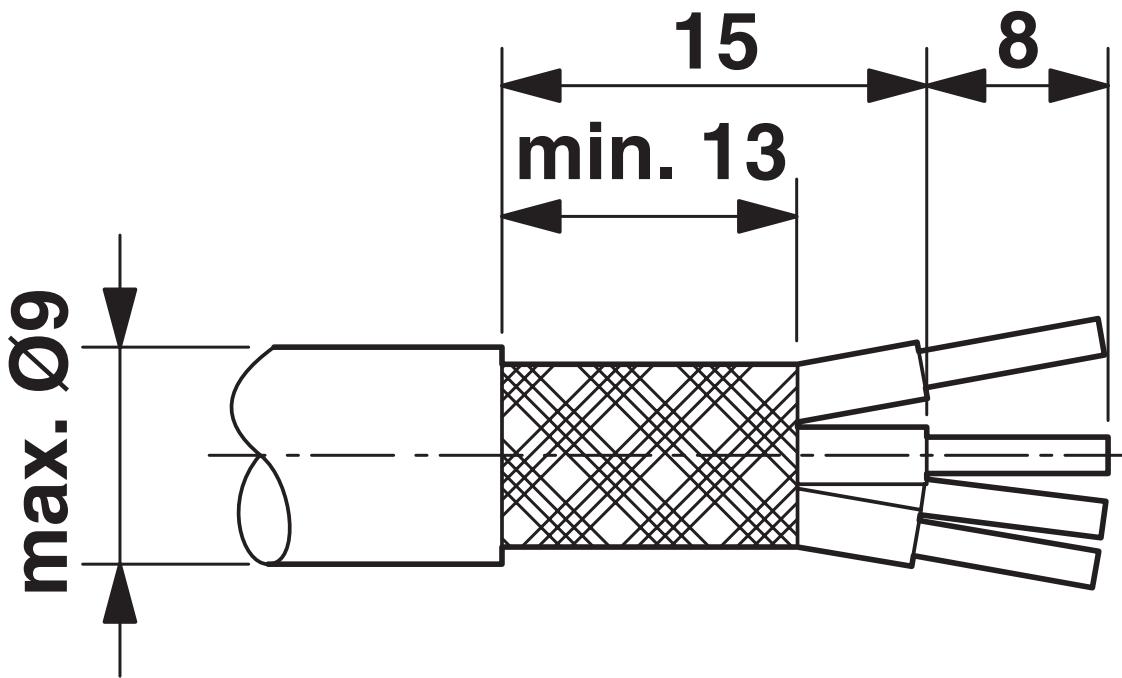
## Drawings

Dimensional drawing



Female insert

Dimensional drawing



Stripping specifications

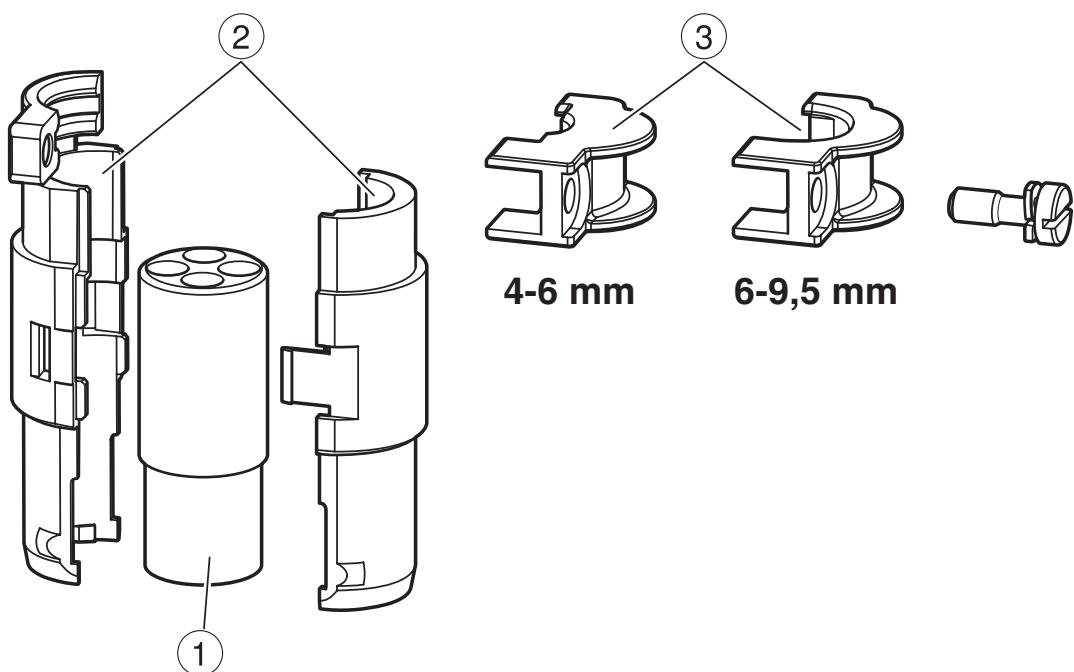
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Functional drawing



## Assembly instruction:

Strip the cable as shown. Lay the braided shield around the cable sheath, and secure with shrink sleeve. Mount the contact carrier in the EMC connector and put on the metal half-shells. Crimp the wires with crimp contacts and snap the contacts into the contact carrier (check to ensure position assignment is correct). Mount the clip and snap the EMC connector into the EMC module. Lastly, place the module in the snap-in frame.

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1636091>

cUL Recognized				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	42 V	9 A	- 16	-

UL Recognized				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	42 V	10 A	- 16	-

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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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.)	No substance above 0.1 wt%
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