

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

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	BF7ACB
Catalog page	Page 583 (C-2-2019)
GTIN	4017918962913
Weight per piece (including packing)	32.77 g
Weight per piece (excluding packing)	32.77 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
Number of positions	4
Connection profile	4
Contact numbering	1 - 4
Application	Data/signal
No. of power contacts	0
No. of control contacts	4
Contact material type	turned rolled
Series	HC-M-EMV
Shielded	yes

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated voltage (III/3)	48 V
Rated surge voltage	0.8 kV
Rated current	10 A

Connection data

Connection technology

Connection technology	Crimp connection
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Conductor connection

Conductor cross section	0.14 mm ² ... 2.5 mm ²
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (6 mm with 2.5 mm ²)

Dimensions

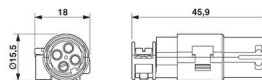
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Dimensional drawing



Width	18 mm
Height	15.5 mm
Length	46 mm

Mechanical characteristics

Contact diameter	1.6 mm
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Material specifications

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 ²)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Environmental and real-life conditions

Ambient conditions

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

Assembly instructions	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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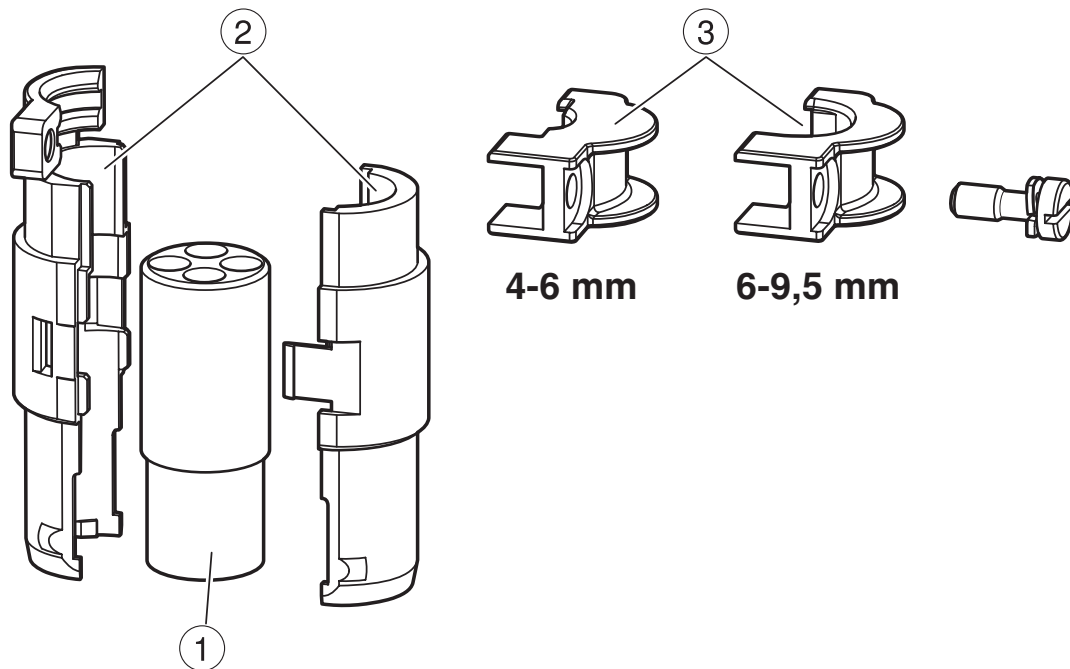
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Drawings

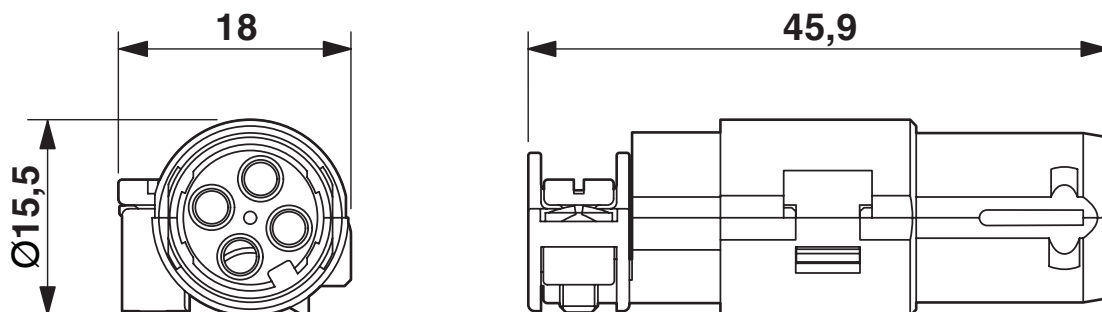
Functional drawing



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.

Dimensional drawing



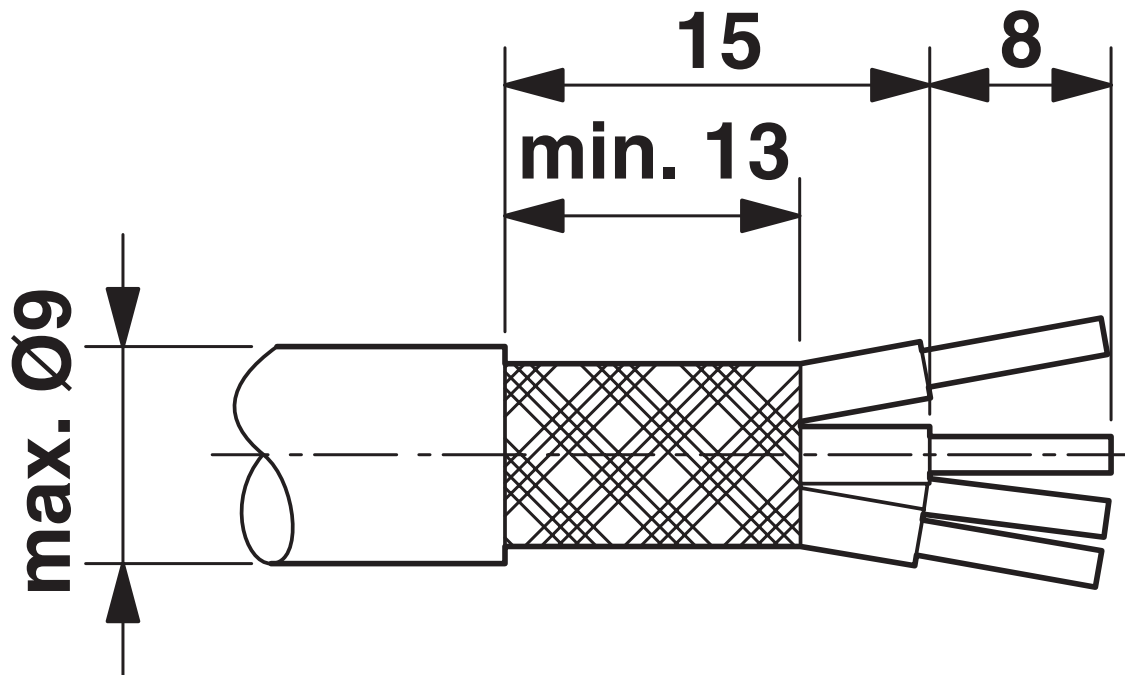
Female insert

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Dimensional drawing



Stripping specifications

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Approvals

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

 cUL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	42 V	9 A	- 16	-

 UL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	42 V	10 A	- 16	-

cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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