

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
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

Data management status

Article revision	02
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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)

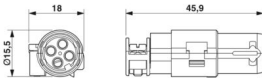
Dimensions

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Dimensional drawing	
	
Width	18 mm
Height	15.5 mm
Length	46 mm

Mechanical characteristics	
Contact diameter	1.6 mm

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 mm²)

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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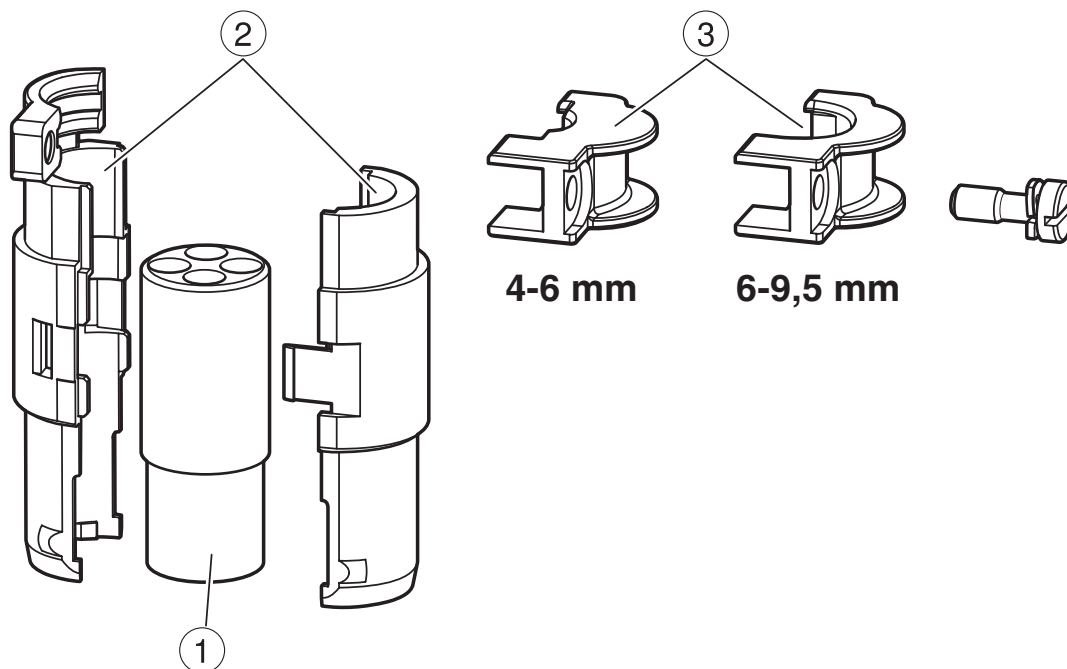
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Drawings

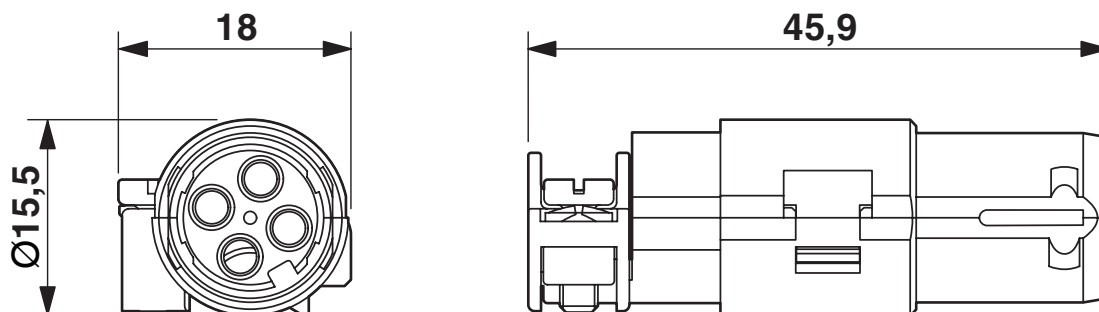
Functional drawing



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

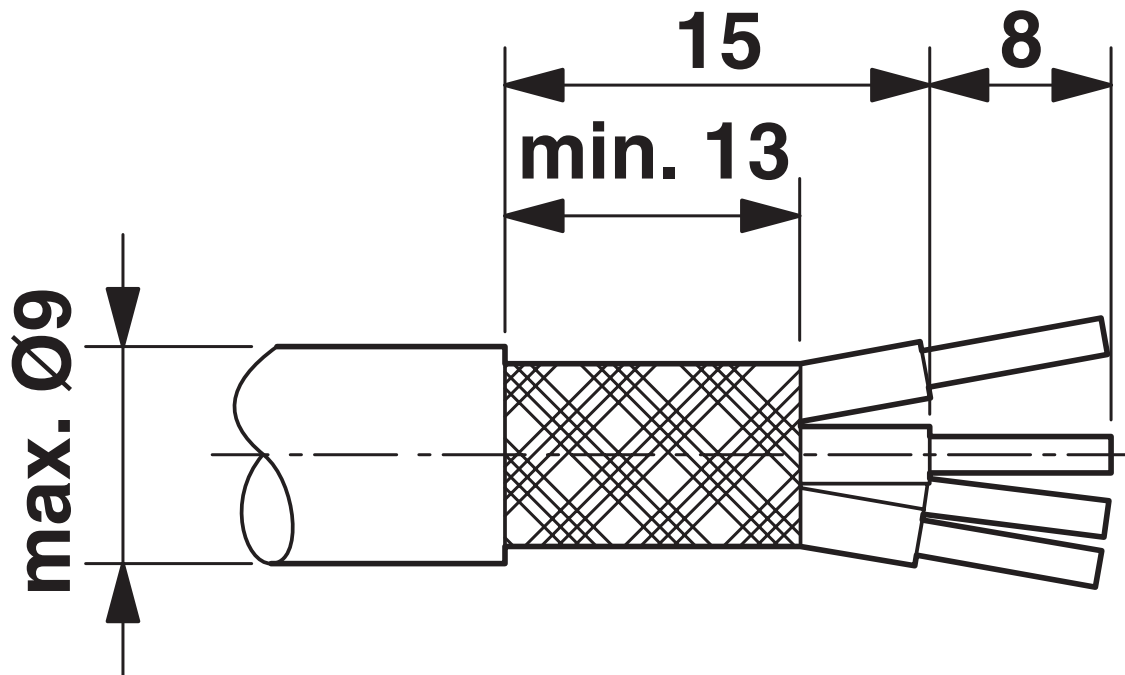


Female insert

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Dimensional drawing



Stripping specifications

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Approvals

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 cUL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	42 V	9 A	- 16	-

 UL Recognized Approval ID: E118976				
	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

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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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