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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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



## Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4017918962913

## Technical data

### Dimensions

Height	15.5 mm
Width	18 mm
Length	46 mm

### Electrical characteristics

Note	The potential of the EMC connector housing is isolated from the potential of the heavy connector. for CK 1,6...ED... crimp contacts (note in scope of delivery) Clamps for the clamping range of 3 mm - 6 mm and 6 mm - 9.5 mm
Rated voltage (III/3)	50 V
Rated current	10 A
Rated surge voltage	0.8 kV
Connection profile	4

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
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### Mechanical characteristics

Conductor cross section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 14

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## Technical data

### Mechanical characteristics

Stripping length of the individual wire	8 mm (6 mm (for 2.5 mm <sup>2</sup> ))
External cable diameter	3 mm ... 9.5 mm
Contact diameter	1.6 mm
Wire diameter including insulation	2.4 mm
Insertion/withdrawal cycles	≥ 500

### General

Series	HC-M-EMV
Connection method	Crimp connection
Contact type	turned
Flammability rating according to UL 94	V0
Degree of pollution	3
Overvoltage category	III
Assembly instructions	Housing height ≥ 72 mm. Plug-in connections may only be operated only when there is no load/voltage.
Connection	For use in HC-M-EMV-MOD-BU plastic module, usable CK1,6-ED-... crimp contacts

### Material data

Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC

### Standards and Regulations

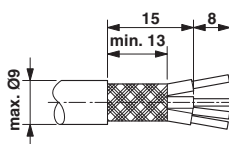
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

### Environmental Product Compliance

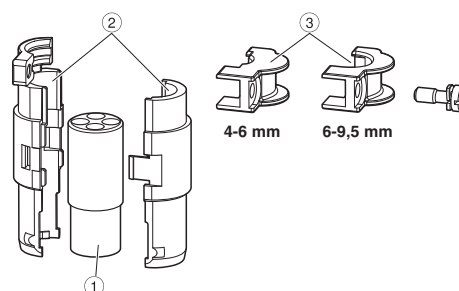
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



Functional drawing



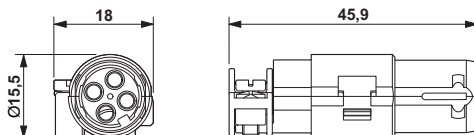
Stripping specifications

Assembly instruction:

## Connector - HC-M-EMV-BU/3-9,5 - 1636091

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

### Approvals

Approvals

Approvals

cUL Recognized / UL Recognized / EAC / cULus Recognized

Ex Approvals

### Approval details

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN	42 V		
Nominal current IN	9 A		
mm <sup>2</sup> /AWG/kcmil	16		

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN	42 V		
Nominal current IN	10 A		
mm <sup>2</sup> /AWG/kcmil	16		

## Connector - HC-M-EMV-BU/3-9,5 - 1636091

### Approvals

EAC		RU C- DE.AI30.B.01102
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>
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