

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



1636091

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 |

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



1636091

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

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

| | |
|----------------------|-----|
| 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 |
| Transmission characteristics (category) | CAT5e |

Connection data

Connection technology

| | |
|-----------------------|------------------|
| Connection technology | Crimp connection |
|-----------------------|------------------|

Conductor connection

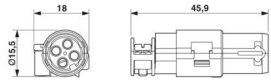
| | |
|---|--|
| Conductor cross-section | 0.14 mm ² ... 2.5 mm ² |
| Connection cross section AWG | 26 ... 14 |
| Stripping length of the individual wire | 8 mm (6 mm with 2.5 mm ²) |

Dimensions

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

1636091

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

| | |
|---------------------|--|
| 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 ²) |

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 |
|---------------|--|

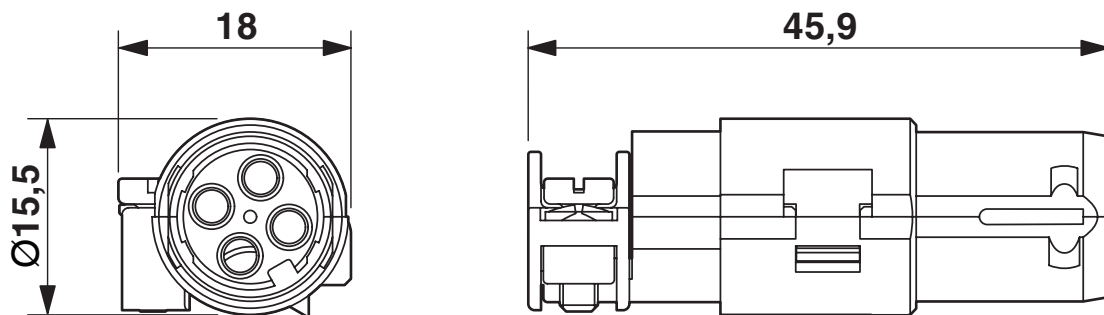
HC-M-EMV-BU/3-9,5 - Connector

1636091

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

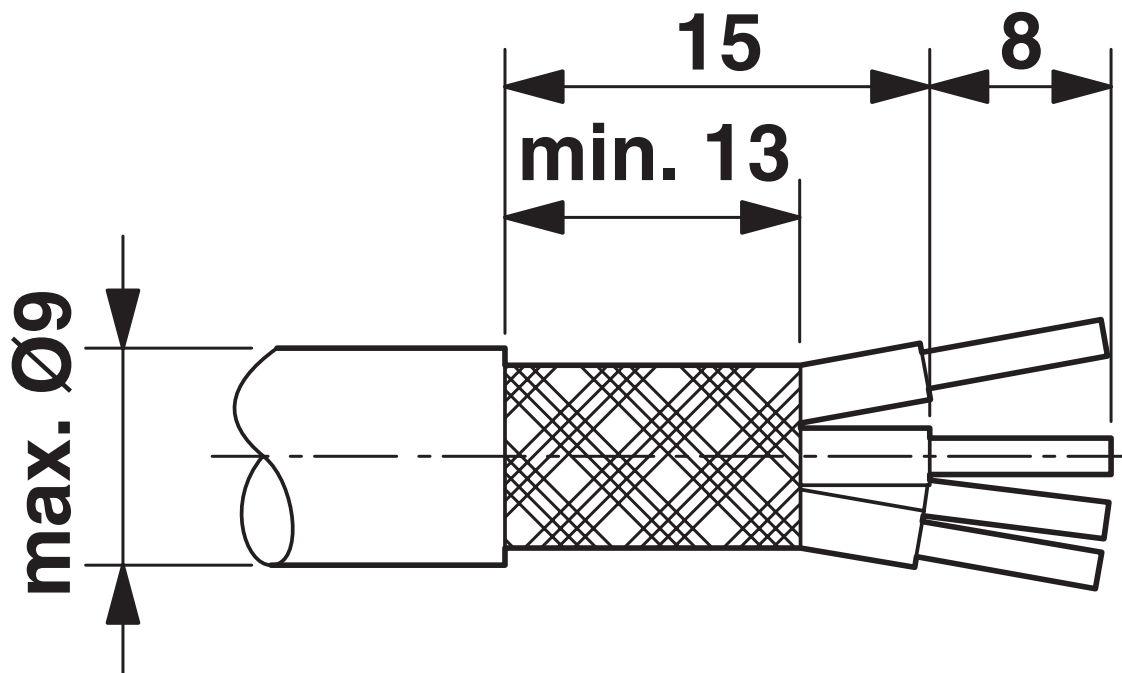
Drawings

Dimensional drawing



Female insert

Dimensional drawing



Stripping specifications

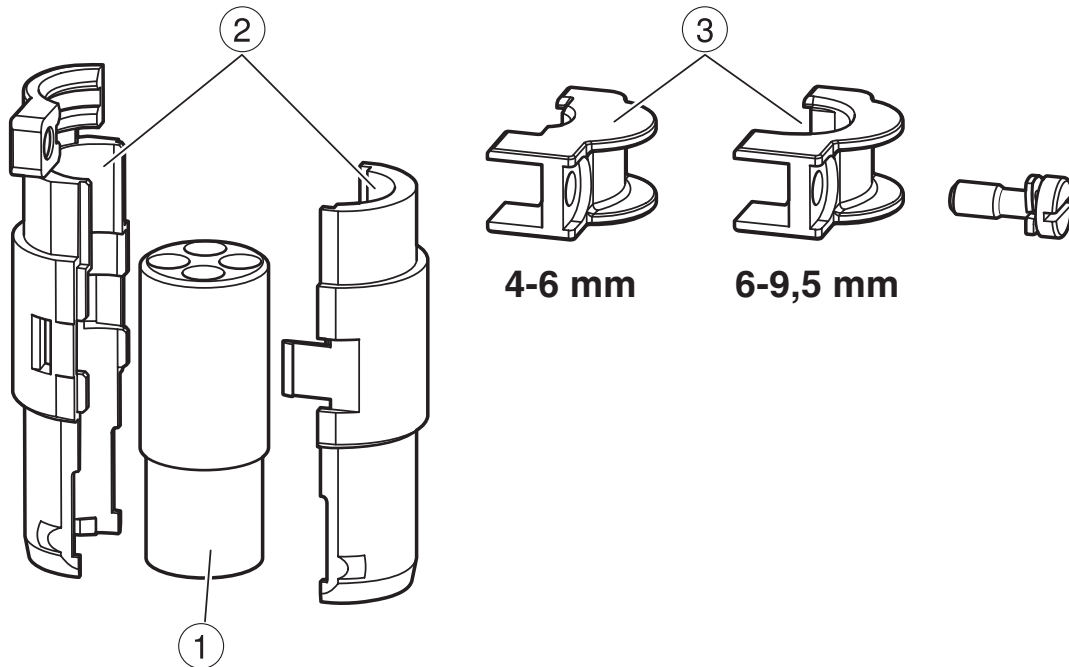
HC-M-EMV-BU/3-9,5 - Connector

1636091

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



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.

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





1636091

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

Approvals

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

|  cUL Recognized Approval ID: E118976 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 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 |
| keine | | | | |
| | 42 V | 10 A | - 16 | - |

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



1636091

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

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440205 |
| ECLASS-15.0 | 27440205 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000438 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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



1636091

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

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com