

# HC-M-02-EMC-F - Contact insert module



1417376

<https://www.phoenixcontact.com/us/products/1417376>

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Contact insert module, number of positions: 2, Socket, Crimp connection, 48 V, 10 A, 0.14 mm<sup>2</sup> .. 2.5 mm<sup>2</sup>, application: Data/signal, for using two EMC connectors (female connector), number of positions: 1, 4, 8

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1417376       |
| Packing unit                         | 2 pc          |
| Minimum order quantity               | 2 pc          |
| Sales key                            | BF62          |
| Product key                          | AF7ACE        |
| GTIN                                 | 4055626112572 |
| Weight per piece (including packing) | 13.925 g      |
| Weight per piece (excluding packing) | 13.25 g       |
| Customs tariff number                | 85389099      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | For HEAVYCON housing type B6 to B48, HC-M-B...MF-... module carrier frame required |
| General | Connectors may be operated only when there is no load/voltage.                     |

### Product properties

|                        |                     |
|------------------------|---------------------|
| Product type           | EMC insert, modular |
| Series                 | HC-M-EMV            |
| Application            | Data/signal         |
| Number of positions    | 2                   |
| Connection profile     | 2                   |
| Contact numbering      | 1 - 2               |
| No. of cable outlets   | 2                   |
| Number of module slots | 2                   |
| Number of slots        | 2                   |
| Contact material type  | turned<br>rolled    |
| Shielded               | no                  |

### 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

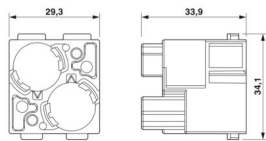
#### Connection technology

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

#### Conductor connection

|                         |  |
|-------------------------|--|
| Conductor cross-section | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
|-------------------------|--|

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 34.2 mm  |

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|        |         |
|--------|---------|
| Height | 34 mm   |
| Length | 29.4 mm |

## Mechanical characteristics

|                        |        |
|------------------------|--------|
| Minimum housing height | 72 mm  |
| Contact diameter       | 1.6 mm |

## Material specifications

|  |                        |
|--|------------------------|
| Material Line conductor                | Zinc alloy             |
| Flammability rating according to UL 94 | V0                     |
| Contact material                       | Copper alloy           |
| Contact surface material               | Ag (power)/Au (signal) |
| Contact carrier material               | PC                     |
| Standards/regulations                  | PC                     |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

## Standards and regulations

### Testing

|                       |   |
|-----------------------|---|
| Standards/regulations | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
|-----------------------|---|

## Mounting

|               |   |
|---------------|---|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
|               | Plastic module for the HC-M-EMV-BU/3-9.5 EMC connector                                    |

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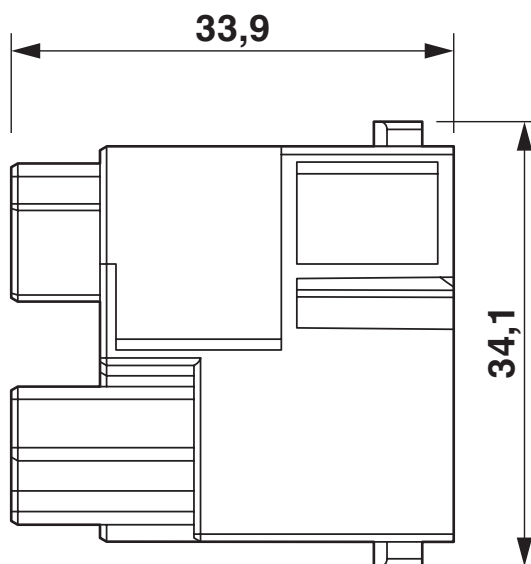
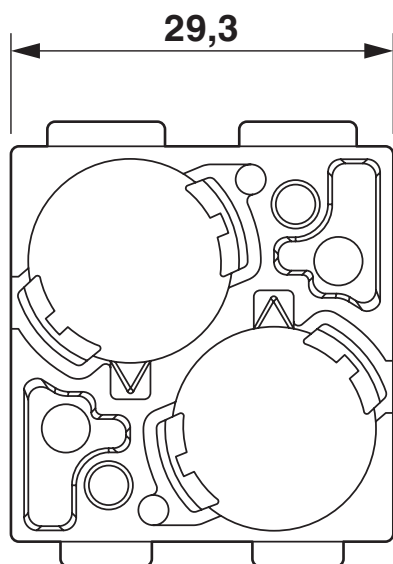


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## Drawings

Dimensional drawing



Female insert

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1417376>



**CSA**

Approval ID: 158887



**UL Recognized**

Approval ID: E118976

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440218 |
| ECLASS-15.0 | 27440207 |

### ETIM

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

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.066 kg CO2e |
|---------|---------------|

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