

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



1417374  
<https://www.phoenixcontact.com/us/products/1417374>

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Contact insert module, number of positions: 2, Pin, 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 (pin), number of positions: 1, 4, 8

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1417374             |
| Packing unit                         | 2 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF62                |
| Product key                          | BF7ACE              |
| Catalog page                         | Page 583 (C-2-2019) |
| GTIN                                 | 4055626112565       |
| Weight per piece (including packing) | 13.8 g              |
| Weight per piece (excluding packing) | 13.75 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               |
| Number of module slots | 2                   |
| Number of slots        | 2                   |
| Contact material type  | turned              |
|                        | rolled              |
| Shielded               | no                  |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### 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 mm² ... 2.5 mm² |
|-------------------------|----------------------|

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
|---------------------|--|

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|        |         |
|--------|---------|
| Width  | 34.2 mm |
| 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: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

## 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-ST/3-9.5 EMC connector                                    |

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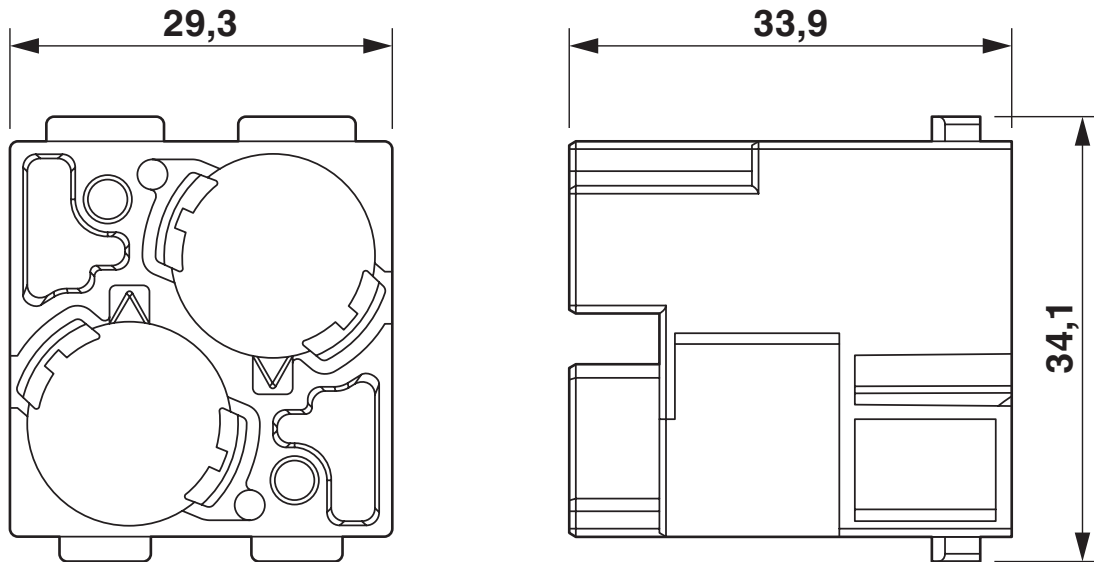


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## Drawings

Dimensional drawing



Male insert

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1417374>



**CSA**  
Approval ID: 13631



**UL Recognized**  
Approval ID: E118976



**EAC**  
Approval ID: RU C-DE.AI30.B.01102



**EAC**  
Approval ID: RU C-DE.BL08.B.00511

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440218 |
| ECLASS-12.0 | 27440218 |
| ECLASS-13.0 | 27440218 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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%               |

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