

# HC-M-08-EMC-DSUB-F - Connector

1066080

<https://www.phoenixcontact.com/us/products/1066080>



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Connector, number of positions: 8, power contacts: 0, control contacts: 8, Socket, Crimp connection, 48 V, 5 A, 0.09 mm<sup>2</sup> ... 0.52 mm<sup>2</sup>, external cable diameter:3 mm ... 9.5 mm, application: Data/signal

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1066080             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF62                |
| Product key                          | BF7ACB              |
| Catalog page                         | Page 583 (C-2-2019) |
| GTIN                                 | 4055626727981       |
| Weight per piece (including packing) | 32.9 g              |
| Weight per piece (excluding packing) | 31.343 g            |
| Customs tariff number                | 85389099            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

|         |                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------|
| General | Order crimp contacts CUC-DSC-J1BAU-S/DSC... separately                                            |
| General | The potential of the EMC connector housing is isolated from the potential of the heavy connector. |
| General | Clamps for the clamping range of 3 mm - 6 mm and 6 mm - 9.5 mm                                    |
| General | Can be used in Item No.: 1417376 HC-M-02-EMC-F                                                    |

### Product properties

|                         |                     |
|-------------------------|---------------------|
| Product type            | EMC insert, modular |
| Series                  | HC-M-EMV            |
| Application             | Data/signal         |
| Number of positions     | 8                   |
| Connection profile      | 8                   |
| Contact numbering       | 1 - 8               |
| No. of power contacts   | 0                   |
| No. of control contacts | 8                   |
| Contact material type   | turned              |
| 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         | 5 A    |

### Connection data

#### Connection technology

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

#### Conductor connection

|                              |                       |
|------------------------------|-----------------------|
| Conductor cross section      | 0.09 mm² ... 0.52 mm² |
| Connection cross section AWG | 28 ... 20             |

### Dimensions

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

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|        |         |
|--------|---------|
| Height | 15.5 mm |
| Length | 45.9 mm |

## Mechanical characteristics

|                  |      |
|------------------|------|
| Contact diameter | 1 mm |
|------------------|------|

## Material specifications

|                                        |              |
|----------------------------------------|--------------|
| Material Line conductor                | Zinc alloy   |
| Flammability rating according to UL 94 | V0           |
| Contact material                       | Copper alloy |
| Contact surface material               | Au           |
| Contact carrier material               | PC           |

## Cable/line

|                         |                 |
|-------------------------|-----------------|
| External cable diameter | 3 mm ... 9.5 mm |
|-------------------------|-----------------|

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
|---------------------------------|------------------|

## Mounting

|                       |                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assembly instructions | The round contact carrier can be separated in the middle for the purpose of assembling/disassembling contacts. Disassemble the connector from the plastic module using the tool, order no.: 1678635 HC-M-EMV-KON-EWZ |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

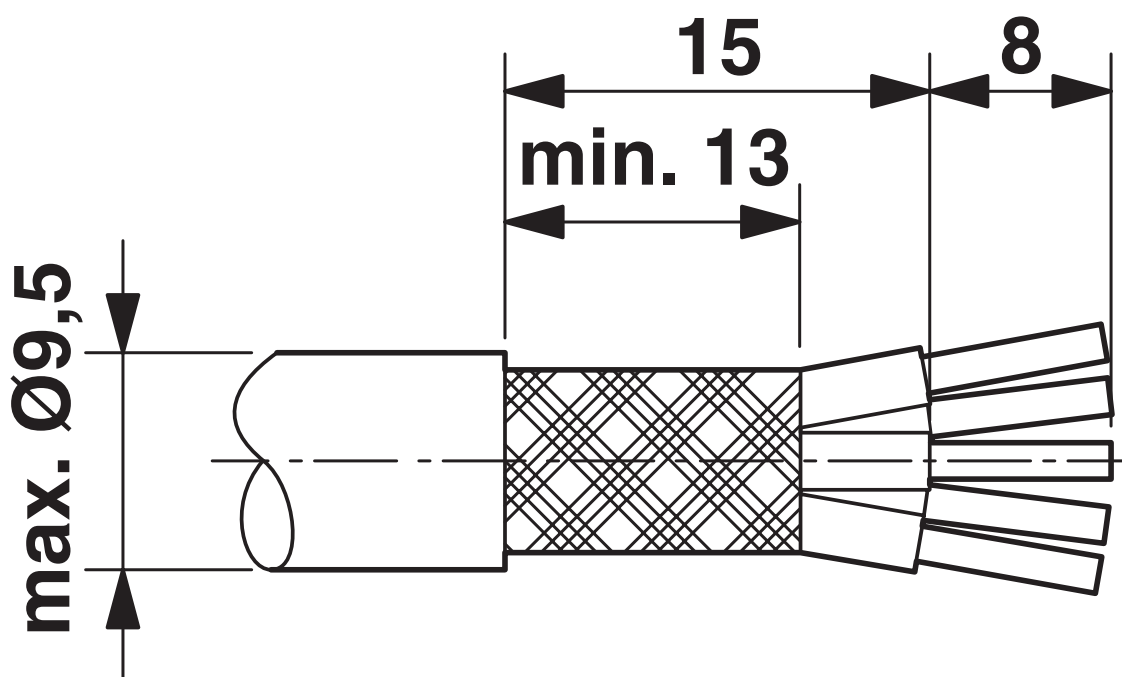
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1066080

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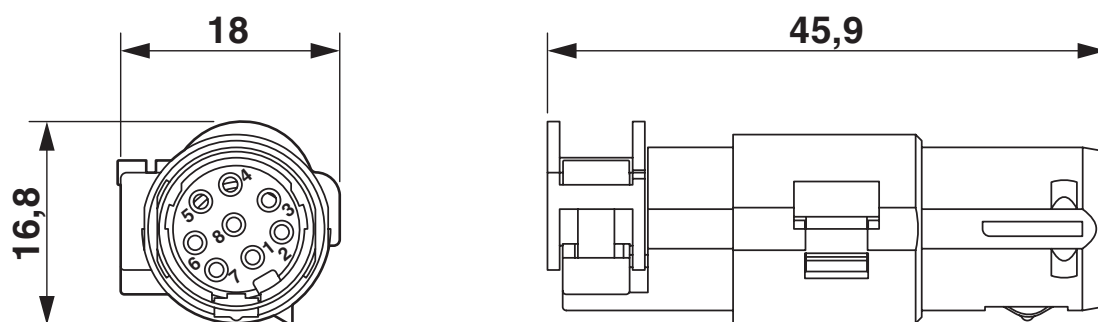
## Drawings

Dimensional drawing



Stripping specifications

Dimensional drawing



Female insert

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1066080>



**EAC**

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440205 |
| ECLASS-12.0 | 27440205 |
| ECLASS-13.0 | 27440205 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000438 |
|----------|----------|

### 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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## Accessories

### HC-CBU-MOD - Coding element

1636130

<https://www.phoenixcontact.com/us/products/1636130>



Coding socket for coding up to 16 connectors, for HC Modular

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### HC-CST-MOD - Coding element

1636127

<https://www.phoenixcontact.com/us/products/1636127>



Coding peg for coding up to 16 connectors, for HC Modular



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

1417376

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



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

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## CUC-DSC-J1BAU-S/DSC24 - D-SUB crimp contact

1418788

<https://www.phoenixcontact.com/us/products/1418788>



D-SUB crimp contact, connection method: Crimp connection, connection cross section: AWG 24- 20

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### CUC-DSC-J1BAU-S/DSC28 - D-SUB crimp contact

1418787

<https://www.phoenixcontact.com/us/products/1418787>



D-SUB crimp contact, connection method: Crimp connection, connection cross section: AWG 28- 24

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### HC-M-B06-MFH-B - Module carrier frame

1182085

<https://www.phoenixcontact.com/us/products/1182085>



Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

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## HC-M-B10-MFH-B - Module carrier frame

1182088

<https://www.phoenixcontact.com/us/products/1182088>



Module carrier frame, size: B10, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

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## HC-M-B16-MFH-B - Module carrier frame

1182090

<https://www.phoenixcontact.com/us/products/1182090>



Module carrier frame, size: B16, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

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## HC-M-B24-MFH-B - Module carrier frame

1182094

<https://www.phoenixcontact.com/us/products/1182094>

Module carrier frame, size: B24, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame



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## HC-M-B06-MFH-H - Module carrier frame

1182087

<https://www.phoenixcontact.com/us/products/1182087>

Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame



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## HC-M-B10-MFH-H - Module carrier frame

1182089

<https://www.phoenixcontact.com/us/products/1182089>



Module carrier frame, size: B10, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ...  
6 mm<sup>2</sup>, application: Module carrier frame

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## HC-M-B16-MFH-H - Module carrier frame

1182093

<https://www.phoenixcontact.com/us/products/1182093>



Module carrier frame, size: B16, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ...  
6 mm<sup>2</sup>, application: Module carrier frame

## HC-M-08-EMC-DSUB-F - Connector

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## HC-M-B24-MFH-H - Module carrier frame

1182095

<https://www.phoenixcontact.com/us/products/1182095>

Module carrier frame, size: B24, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame



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## HC-M-08-EMC-DSUB-M - Connector

1066082

<https://www.phoenixcontact.com/us/products/1066082>



Connector, number of positions: 8, power contacts: 0, control contacts: 8, Pin, Crimp connection, 48 V, 5 A, 0.09 mm<sup>2</sup> ... 0.52 mm<sup>2</sup>, external cable diameter: 3 mm ... 9.5 mm, application: Data/signal

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## CRIMPFOX-TC MP - Crimping pliers with digital display

1212510

<https://www.phoenixcontact.com/us/products/1212510>



Crimping pliers, for turned contacts, universal cross section setting, up to a maximum of 2.5 mm<sup>2</sup>, digital display with 0.01 mm increments, pressure lock can be unlocked, including positioning tool

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## HC-M-EMV-KON-EWZ - Contact removal tool

1678635

<https://www.phoenixcontact.com/us/products/1678635>



Contact removal tool for HC-M-EMV contact carriers

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