

# HC-M-08-GBIT-CT-M - Contact insert module



1417302

<https://www.phoenixcontact.com/us/products/1417302>

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Contact insert module, number of positions: 8, Pin, Crimp connection, 48 V, 5 A, 0.08 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, external cable diameter:5 mm ... 7 mm, application: Data, without crimp contacts

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1417302             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF62                |
| Product key                          | BF7ACE              |
| Catalog page                         | Page 587 (C-2-2019) |
| GTIN                                 | 4055626112459       |
| Weight per piece (including packing) | 52.04 g             |
| Weight per piece (excluding packing) | 47.67 g             |
| Customs tariff number                | 85389099            |
| Country of origin                    | PL                  |

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## Technical data

### Notes

|         |                                                                |
|---------|----------------------------------------------------------------|
| General | Connectors may be operated only when there is no load/voltage. |
|---------|----------------------------------------------------------------|

### Mounting

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
|---------------|-------------------------------------------------------------------------------------------|

### Product properties

|                        |                        |
|------------------------|------------------------|
| Product type           | Modular contact insert |
| Series                 | HC-M-08-GBIT           |
| Application            | Data                   |
| Sensor type            | Ethernet               |
| Number of positions    | 8                      |
| Connection profile     | 8                      |
| Contact numbering      | 1 - 8                  |
| Number of module slots | 1                      |
| Contact material type  | turned                 |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Connection data

#### Connection technology

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

#### Conductor connection

|                                         |                      |
|-----------------------------------------|----------------------|
| Conductor cross section                 | 0.08 mm² ... 0.5 mm² |
| Connection cross section AWG            | 28 ... 20            |
| Stripping length of the individual wire | 4.2 mm               |

### Dimensions

|                     |          |
|---------------------|----------|
| Dimensional drawing |          |
| Width               | 26.35 mm |
| Height              | 41.4 mm  |
| Length              | 13.9 mm  |

### Mechanical characteristics

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

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## Electrical properties

|                                         |                   |
|-----------------------------------------|-------------------|
| Rated voltage (III/3)                   | 48 V              |
| Rated surge voltage                     | 0.8 kV            |
| Rated current                           | 5 A               |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |

## Mechanical properties

### Mechanical data

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

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

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |
|---------------------------------|------------------------------------------------------|

## 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) |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|

# HC-M-08-GBIT-CT-M - Contact insert module

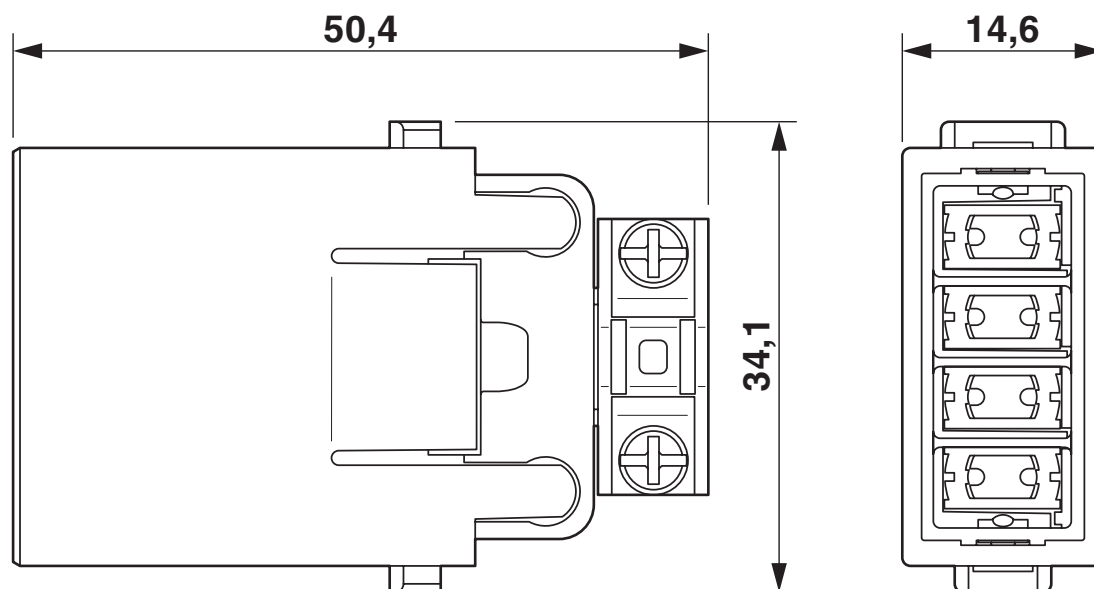


1417302

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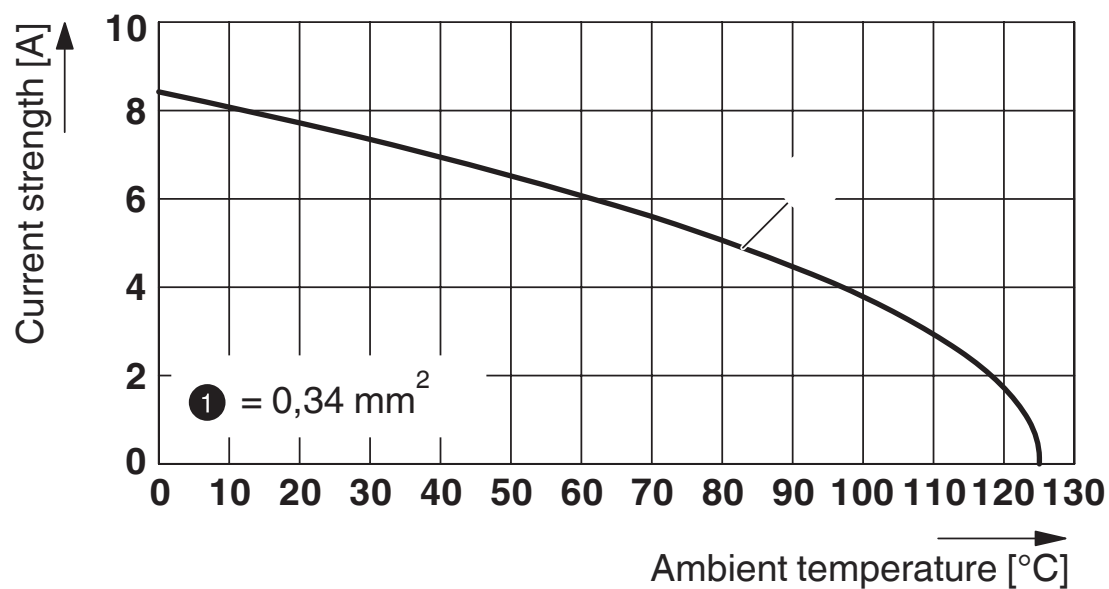
## Drawings

Dimensional drawing



Male insert

Diagram



Derating diagram

# HC-M-08-GBIT-CT-M - Contact insert module



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1417302>

|                                       |  |  |  |  |
|---------------------------------------|--|--|--|--|
| <b>DNV</b><br>Approval ID: TAE000037S |  |  |  |  |
|---------------------------------------|--|--|--|--|

|                                  |                                |                                |                   |                               |
|----------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <b>CSA</b><br>Approval ID: 13631 |                                |                                |                   |                               |
|                                  | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                  | 50 V                           | 5 A                            | - 22              | -                             |

|                                              |                                |                                |                   |                               |
|----------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <b>UL Recognized</b><br>Approval ID: E118976 |                                |                                |                   |                               |
|                                              | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                              | 50 V                           | 5 A                            | - 22              | -                             |

|                                                 |  |  |  |  |
|-------------------------------------------------|--|--|--|--|
| <b>EAC</b><br>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 |
|-------------|----------|

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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## CUC-DSC-C1BAU-S/DSC28 - D-SUB crimp contact

1418784

<https://www.phoenixcontact.com/us/products/1418784>



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

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## CUC-DSC-C1BAU-S/DSC24 - D-SUB crimp contact

1418786

<https://www.phoenixcontact.com/us/products/1418786>



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

# HC-M-08-GBIT-CT-M - Contact insert module

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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



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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-GBIT-CT-F - Contact insert module

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Contact insert module, number of positions: 8, Socket, Crimp connection, 48 V, 5 A, 0.08 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, external cable diameter: 5 mm ... 7 mm, application: Data, without crimp contacts

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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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