

# HC-COM-Q4/2-I-CT-F-PL - Contact insert



1459657

<https://www.phoenixcontact.com/gb/products/1459657>

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Contact insert, number of positions: 4+2+PE, size: COM, power contacts: 4, control contacts: 2, number of connections per position: 1, Socket, Crimp connection, 400 V, 40 A, 1.5 mm<sup>2</sup> ... 10 mm<sup>2</sup>, application: Power/signal, Only suitable for plastic housings

## Product description

Contact insert, incl. 4 mounting screws

## Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1459657       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF7ABH        |
| Product key                          | AF7ABH        |
| GTIN                                 | 4063151849474 |
| Weight per piece (including packing) | 12.1 g        |
| Weight per piece (excluding packing) | 22.22 g       |
| Country of origin                    | PL            |

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## Technical data

### Notes

|         |                                                                               |
|---------|-------------------------------------------------------------------------------|
| General | Connectors may be operated only when there is no load/voltage.                |
| General | For CK4,0-ED... (power circuit), CK1,6-ED... (control circuit) crimp contacts |

### Mounting

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
|               | Can only be used in plastic housing                                                       |

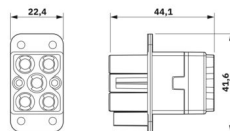
### Product properties

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Product type                       | Contact insert with a fixed no. of positions         |
| Series                             | HC-COM                                               |
| Application                        | Power/signal                                         |
| Type                               | COM                                                  |
| Number of positions                | 6                                                    |
| Connection profile                 | 4+2+PE                                               |
| Contact numbering                  | 1 - 4 (power contacts)<br>11 - 12 (control contacts) |
| Number of connections per position | 1                                                    |
| No. of power contacts              | 4                                                    |
| No. of control contacts            | 2                                                    |
| Contact material type              | turned                                               |

### Insulation characteristics

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

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 22.4 mm                                                                              |
| Height              | 44.1 mm                                                                              |
| Length              | 41.6 mm                                                                              |

### Mechanical characteristics

|                  |      |
|------------------|------|
| Contact diameter | 4 mm |
|------------------|------|

### Connection data

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## Connection technology

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Connection technology              | Crimp connection (power contacts)   |
|                                    | Crimp connection (control contacts) |
|                                    | Crimp connection (PE contact)       |
| Number of connections per position | 1                                   |
| Connection in acc. with standard   | IEC / EN                            |

## Conductor connection

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Conductor cross section                 | 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> (power contacts)              |
|                                         | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (control contacts)          |
| Connection cross section AWG            | 16 ... 8 (power contacts)                                                |
|                                         | 26 ... 14 (control contacts)                                             |
| Tightening torque                       | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Stripping length of the individual wire | 9 mm (for 1.5 ... 2.5 mm <sup>2</sup> )                                  |
|                                         | 9.6 mm (Power 4 ... 6 mm <sup>2</sup> )                                  |
|                                         | 16 mm (10 mm <sup>2</sup> power circuit)                                 |
|                                         | 6 mm (Signal 2.5 mm <sup>2</sup> )                                       |

## Electrical properties

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Rated voltage (III/3)            | 400 V (Phase-ground power contacts) |
|                                  | 250 V (control contacts)            |
|                                  | 690 V (Phase-phase power contacts)  |
| Rated voltage for power contacts | 400/690 V                           |
|                                  | 250                                 |
| Rated surge voltage              | 6 kV (Phase-phase power contacts)   |
|                                  | 4 kV (control contacts)             |
| Rated current                    | 40 A (power contacts)               |
|                                  | 10 A (control contacts)             |

## Mechanical properties

### Mechanical data

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

## Material specifications

|                                              |                       |
|----------------------------------------------|-----------------------|
| Flammability rating according to UL 94       | V0                    |
| Contact material                             | Copper alloy          |
| Contact surface material                     | Ag (alternatively Au) |
| Contact carrier material                     | PC                    |
| Material of contact surface, power contact   | Ag                    |
| Material of contact surface, control contact | Ag (alternatively Au) |
| Standards/regulations                        | PC                    |

## Environmental and real-life conditions

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

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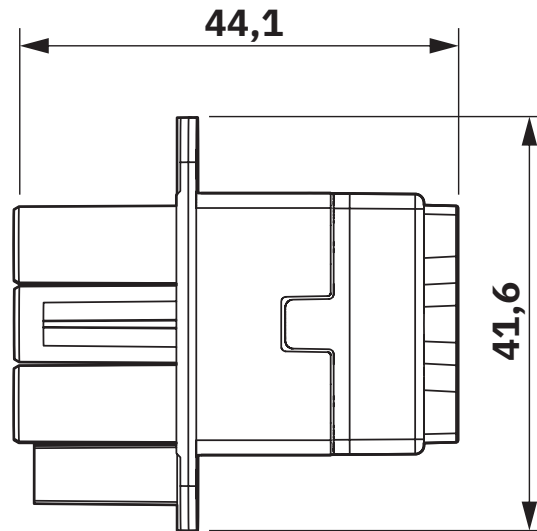
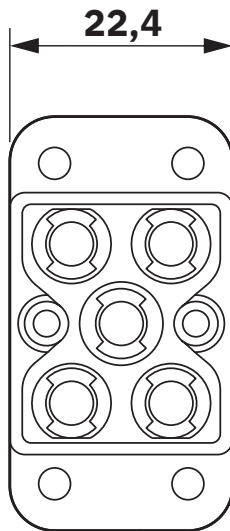


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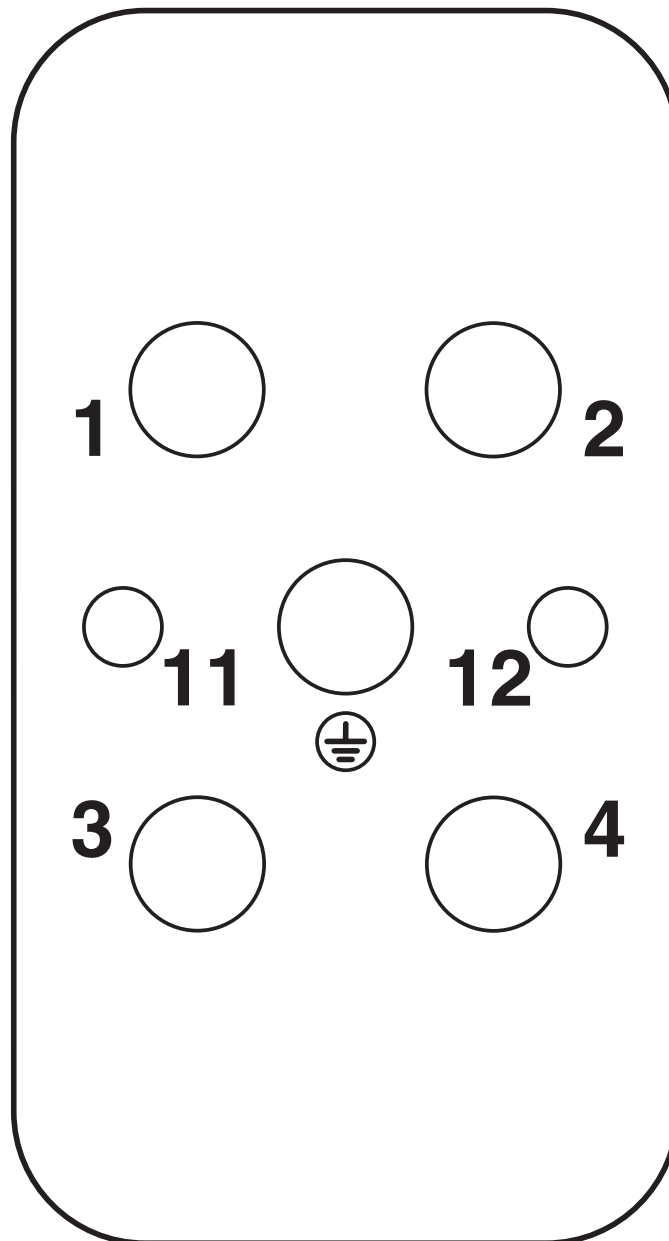
## Drawings

Dimensional drawing

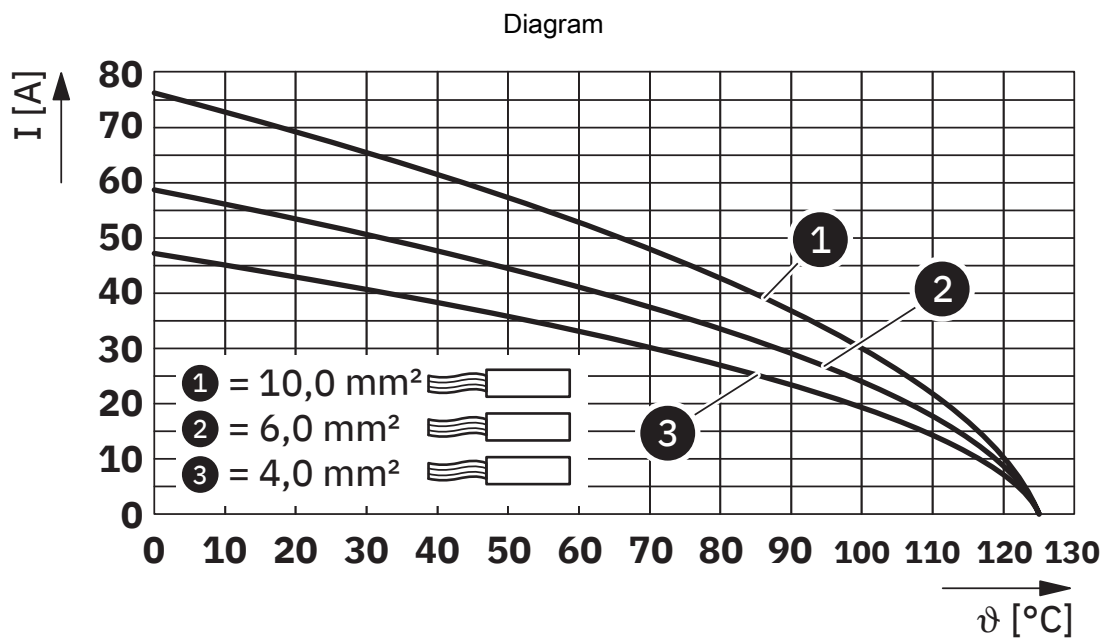


Dimensional drawing

Schematic diagram



Connector pin assignment, connection side



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1459657>



**UL Recognized**  
Approval ID: E468743

|                                                                                   |                                    |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>CSA</b><br>Approval ID: 2783869 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$              | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                                                             | 600 V                              | 38 A                  | - 8               | -                           |
| Signal                                                                            | 600 V                              | 10 A                  | - 14              | -                           |



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## Classifications

### ECLASS

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

### ETIM

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

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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.) | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
| SCIP                                | 0480a07c-ca8d-4004-8907-bbbb5a63d79e                                                 |

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