# HC-COM-Q4/2-I-CT-M - Contact insert

1079555

https://www.phoenixcontact.com/us/products/1079555

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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, Pin, Crimp connection, 400 V, 40 A, 1.5 $mm^2$ ... 6 $mm^2$, application: Power/signal

## Product description

Contact insert, incl. 4 mounting screws

## Your advantages

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

## Commercial data

| | |
|---|---|
| Item number | 1079555 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF61 |
| Product key | AF7ABH |
| GTIN | 4055626800332 |
| Weight per piece (including packing) | 30.2 g |
| Weight per piece (excluding packing) | 25.5 g |
| Customs tariff number | 85389099 |
| Country of origin | CN |

## 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 |

### 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) |
| | 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 | 26.3 mm |
| Height | 52.3 mm |
| Length | 45.5 mm |

#### Mechanical characteristics

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

### Connection data

#### 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 mm² ... 6 mm² (power contacts) |
| | 0.14 mm² ... 2.5 mm² (control contacts) |
| Connection cross section AWG | 16 ... 10 (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 mm² ... 2.5 mm²) |
| | 9.6 mm (Power 4 ... 6 mm²) |
| | 8 mm (Control circuit) |
| | 6 mm (Signal 2.5 mm²) |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 400 V (Phase-ground power contacts) |
| | 690 V (Phase-phase power contacts) |
| | 250 V (control 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 |
| Material grommet GRP | NBR |
| 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) |

## Environmental and real-life conditions

Ambient conditions

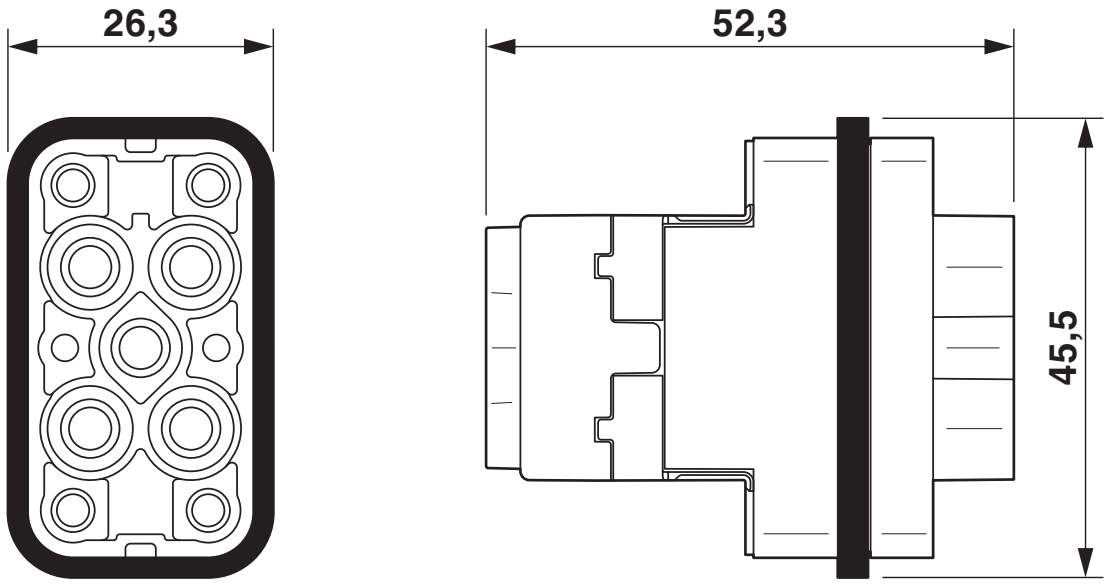
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |

## Standards and regulations

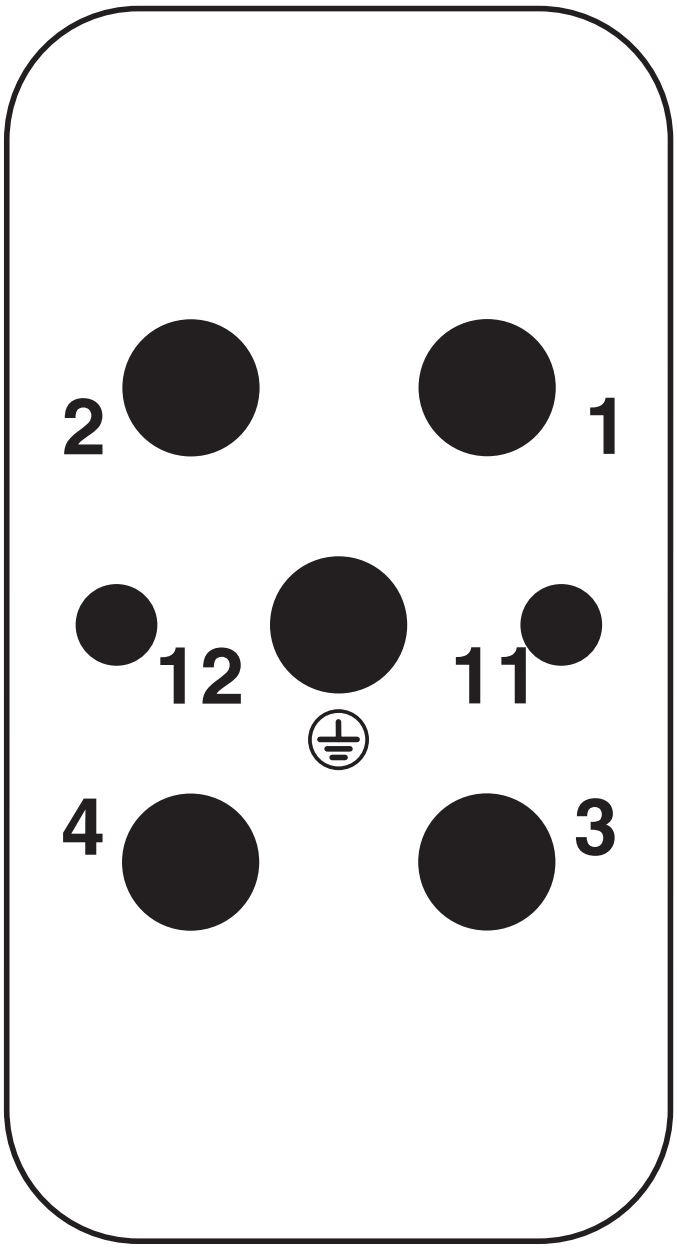
| | |
|---|---|
| Standards/regulations | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

## Drawings

Dimensional drawing

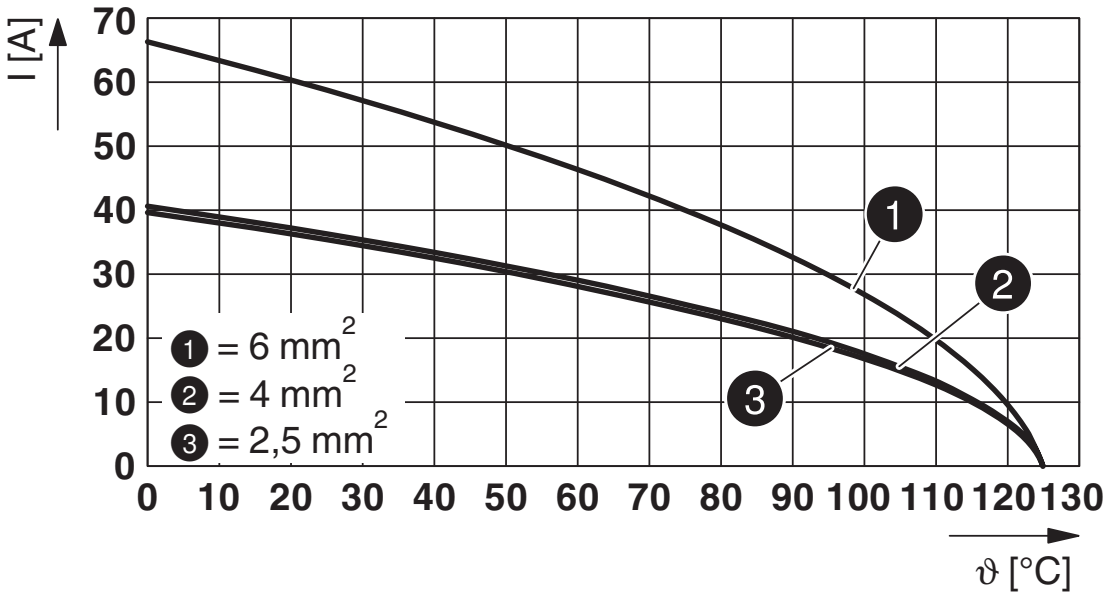


Schematic diagram




Connector pin assignment, connection side

Diagram




Derating diagram

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1079555

**UL Recognized**
Approval ID: E468743

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440205 |
| ECLASS-15.0 | 27440205 |

### ETIM

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

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121500 |

## 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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