

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



1079555

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## Product description

Contact insert, incl. 4 mounting screws

## Your advantages

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

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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
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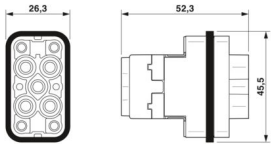
### Product properties

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
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### Connection data

Connection technology

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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> ... 6 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 ... 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 ... 2.5 mm <sup>2</sup> )
	9.6 mm (Power 4 ... 6 mm <sup>2</sup> )
	8 mm (Control circuit)
	6 mm (Signal 2.5 mm <sup>2</sup> )

## 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
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## Material specifications

Flammability rating according to UL 94	V0
Seal material	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)
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

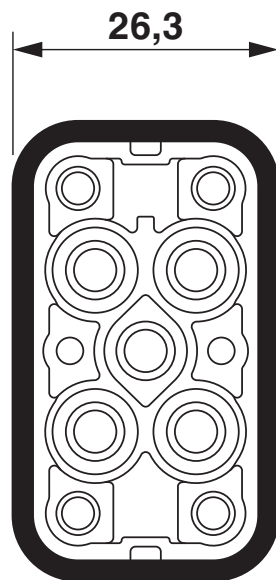
PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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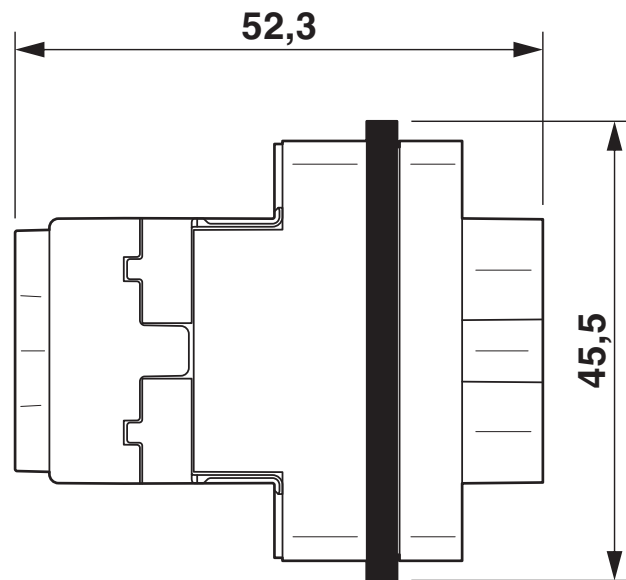
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## Drawings



Dimensional drawing



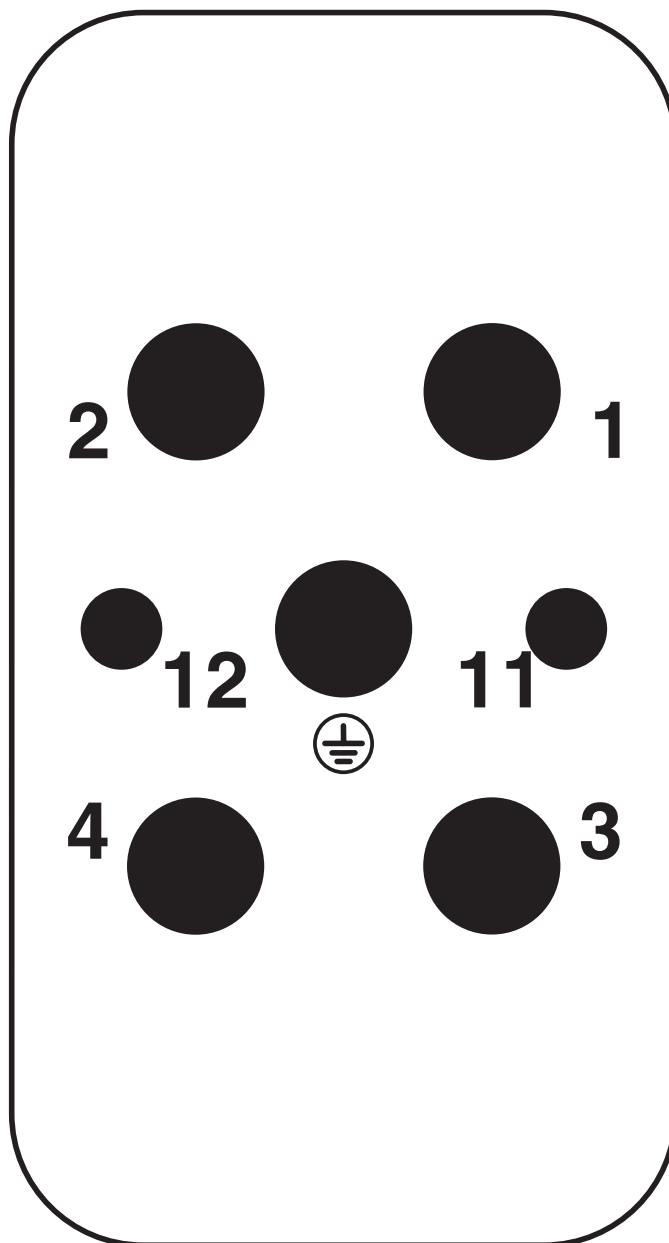
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Schematic diagram



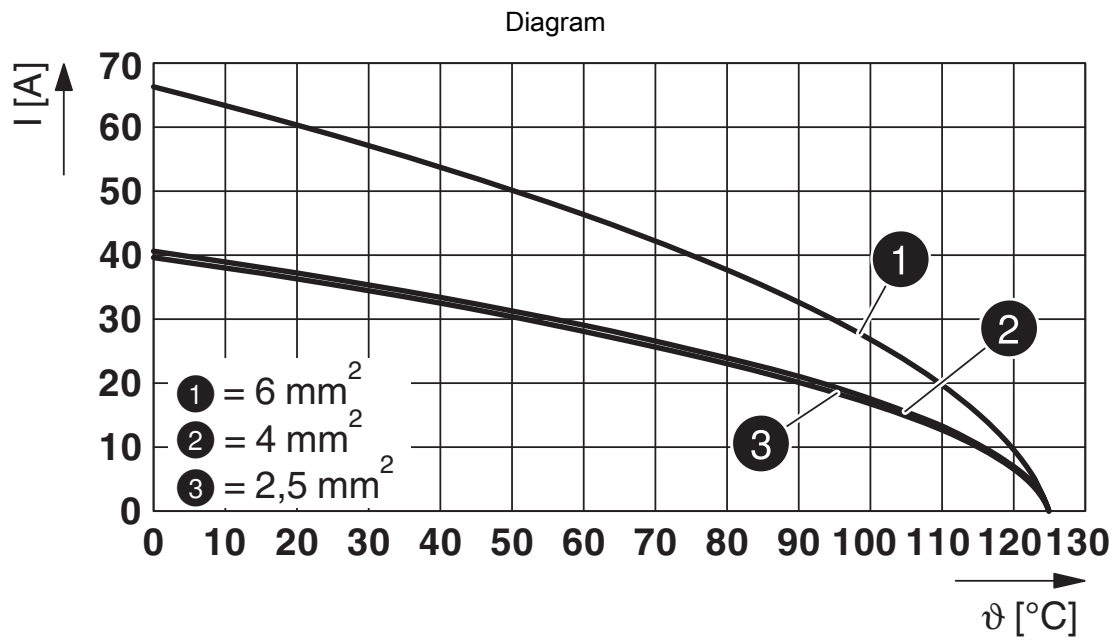
Connector pin assignment, connection side

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Derating diagram

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## Approvals

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



**UL Recognized**

Approval ID: E468743

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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