

# HC-COM-Q4/2-I-AT/PT-M - Contact insert



1079558

<https://www.phoenixcontact.com/us/products/1079558>

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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, Axial screw connection, 400 V, 40 A, 2.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Power/signal

## Product description

Contact insert, incl. 4 mounting screws

## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Cost-effective and fast coding with plastic profiles

## Commercial data

Item number	1079558
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABH
GTIN	4055626800363
Weight per piece (including packing)	64.5 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	CN

## Technical data

### Mounting

<p>Assembly note</p>	<p>To ensure correct use, installation in housing with IP54 protection or better is required</p> <p><b>Note regarding axial connection technology:</b>                      Only for stranded wires. The specified conductor cross-sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use.                      The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use.</p> <p><b>Assembly instructions</b>                      Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.</p>
<p>Hexagonal socket</p>	<p>SW 2</p>

### Product properties

<p>Product type</p>	<p>Contact insert with a fixed no. of positions</p>
<p>Series</p>	<p>HC-COM</p>
<p>Application</p>	<p>Power/signal</p>
<p>Type</p>	<p>COM</p>
<p>Number of positions</p>	<p>6</p>
<p>Connection profile</p>	<p>4+2+PE</p>
<p>Contact numbering</p>	<p>1 - 4 (power contacts)                      11 - 12 (control contacts)</p>
<p>Number of connections per position</p>	<p>1</p>
<p>No. of power contacts</p>	<p>4</p>
<p>No. of control contacts</p>	<p>2</p>
<p>Contact material type</p>	<p>turned</p>
<p>Insulation characteristics</p>	
<p>Overvoltage category</p>	<p>III</p>
<p>Degree of pollution</p>	<p>3</p>

### Dimensions

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Dimensional drawing	
Width	22.5 mm
Height	48 mm
Length	42 mm

## Mechanical characteristics

Contact diameter	4 mm
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## Connection data

### Connection technology

Connection technology	Axial screw connection (power contacts) Push-in connection (control contacts)
Number of connections per position	1
Connection in acc. with standard	IEC / EN

### Conductor connection

Conductor cross-section	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> (power contacts) 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Control contacts, applies to flexible conductors with ferrules)
Connection cross section AWG	14 ... 10 (power contacts) 22 ... 16 (Control contacts, applies to flexible conductors with ferrules)
Tightening torque	1.5 Nm ... 1.8 Nm (2,5 mm <sup>2</sup> ... 6,0 mm <sup>2</sup> )
Stripping length of the individual wire	9 mm +1 mm (Power) 8 mm (Signal)

## 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

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
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## 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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# HC-COM-Q4/2-I-AT/PT-M - Contact insert

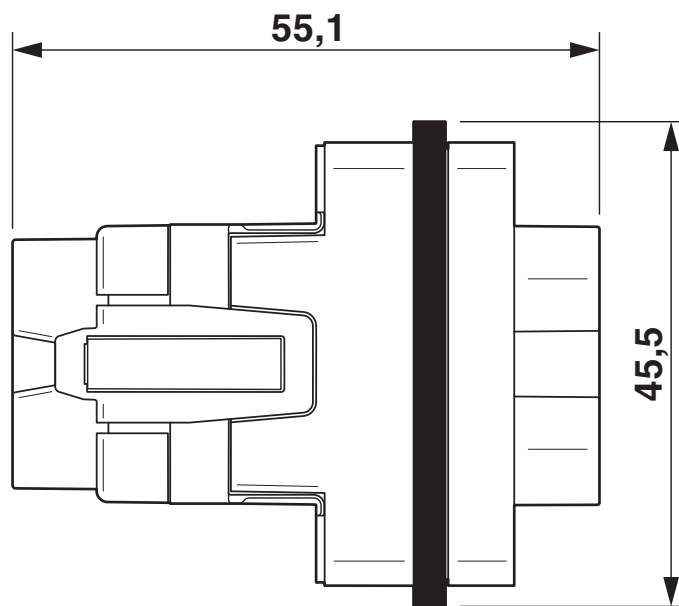
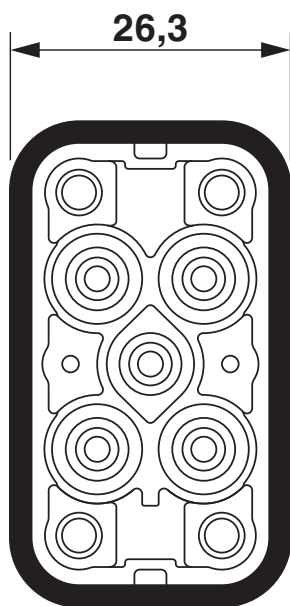


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## Drawings

Dimensional drawing



Dimensional drawing

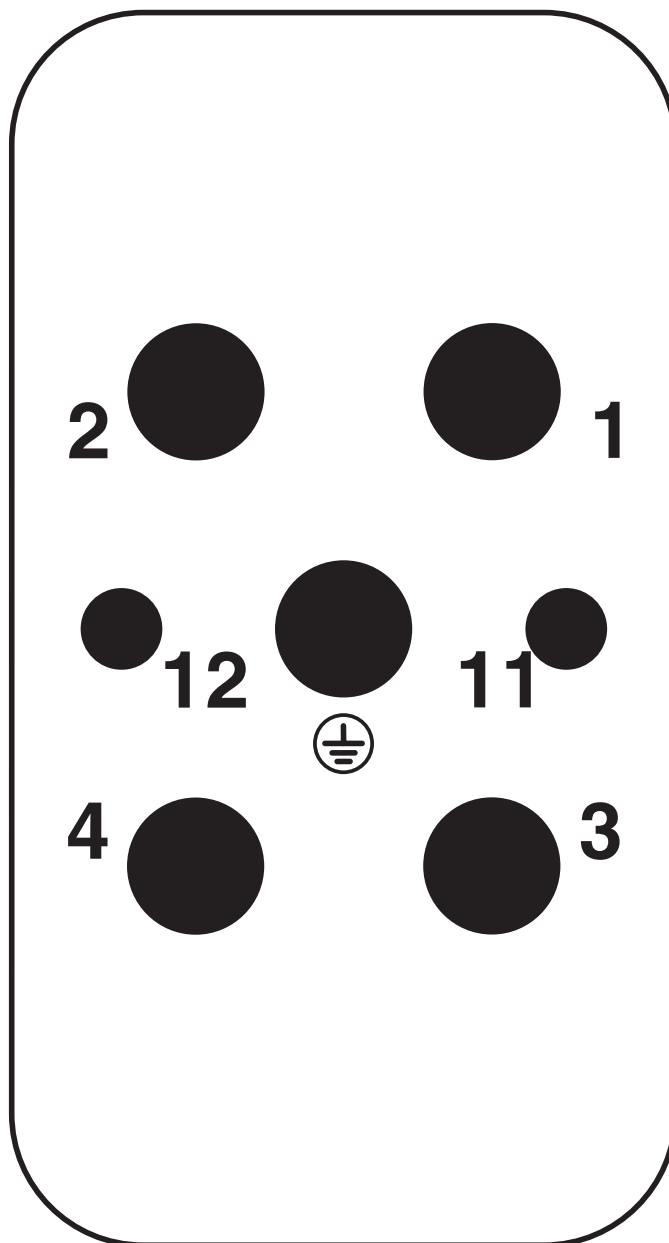
# HC-COM-Q4/2-I-AT/PT-M - Contact insert

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Schematic diagram



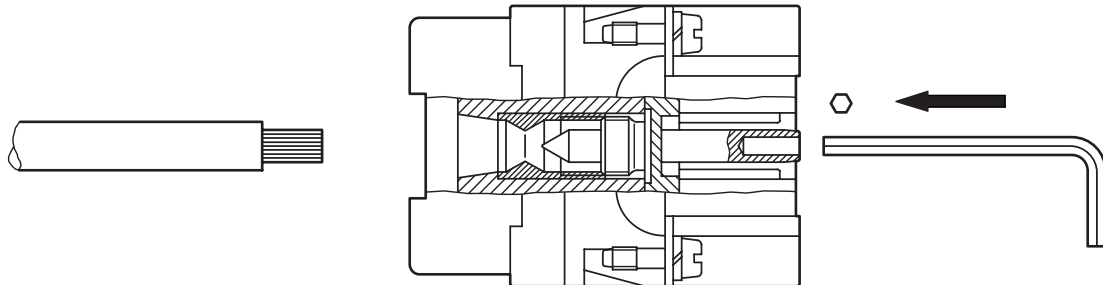
Connector pin assignment, connection side

# HC-COM-Q4/2-I-AT/PT-M - Contact insert

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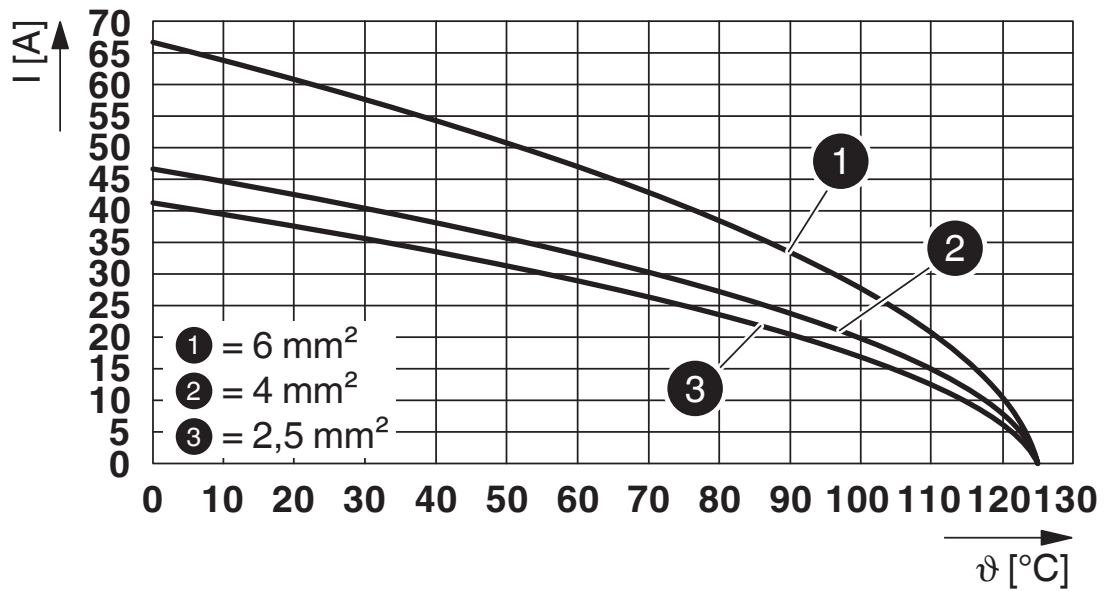
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Schematic diagram



Axial screw connection

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1079558>

 <b>UL Recognized</b> Approval ID: E468743		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine					
Power		600 V	48 A	- 10	-
Signal		600 V	10 A	- 14	-

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 10.0	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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