

# 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	BF7ABH
Catalog page	Page 649 (C-2-2019)
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

### Notes

General	Connectors may be operated only when there is no load/voltage.
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### Mounting

Assembly instructions	<p>To ensure correct use, installation in housing with IP54 protection or better is required</p> <p><b>Note regarding axial connection technology:</b></p> <p>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.</p> <p>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></p> <p>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>
Hexagonal socket	WAF 2

### Product properties

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

### Insulation characteristics

Overvoltage category	III
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Degree of pollution	3
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## Dimensions

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) 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

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## 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: 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)
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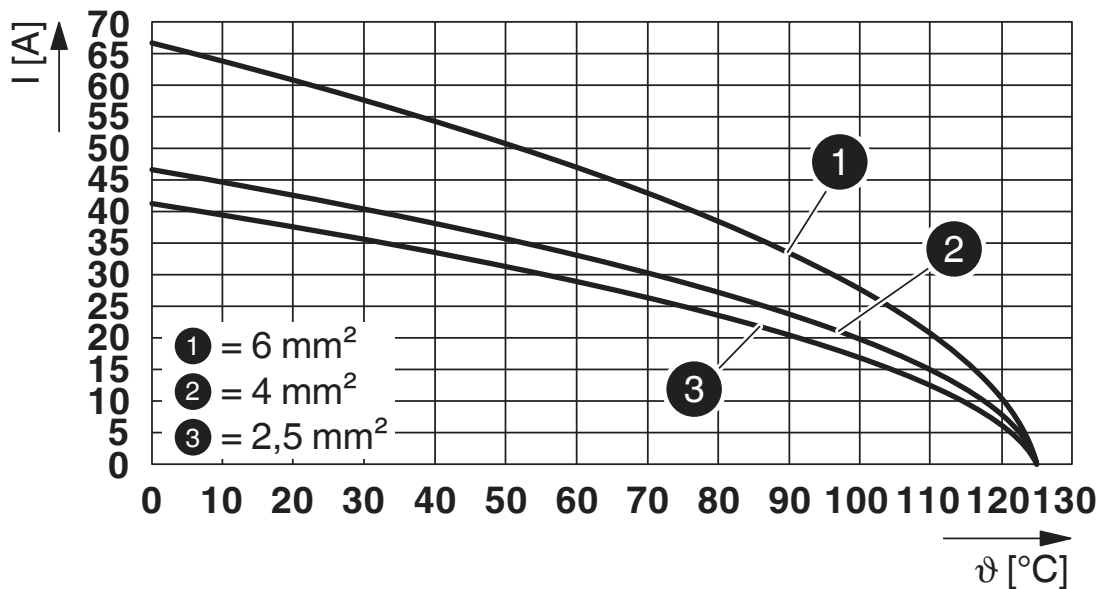
## Standards and regulations

### 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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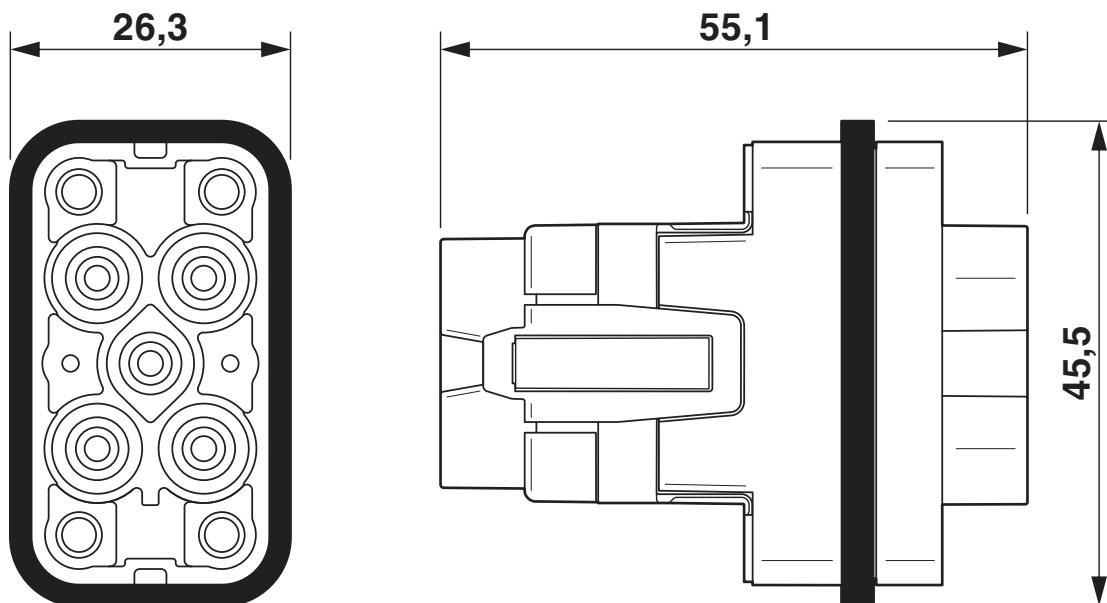
## Drawings

Diagram



Derating diagram

Dimensional drawing



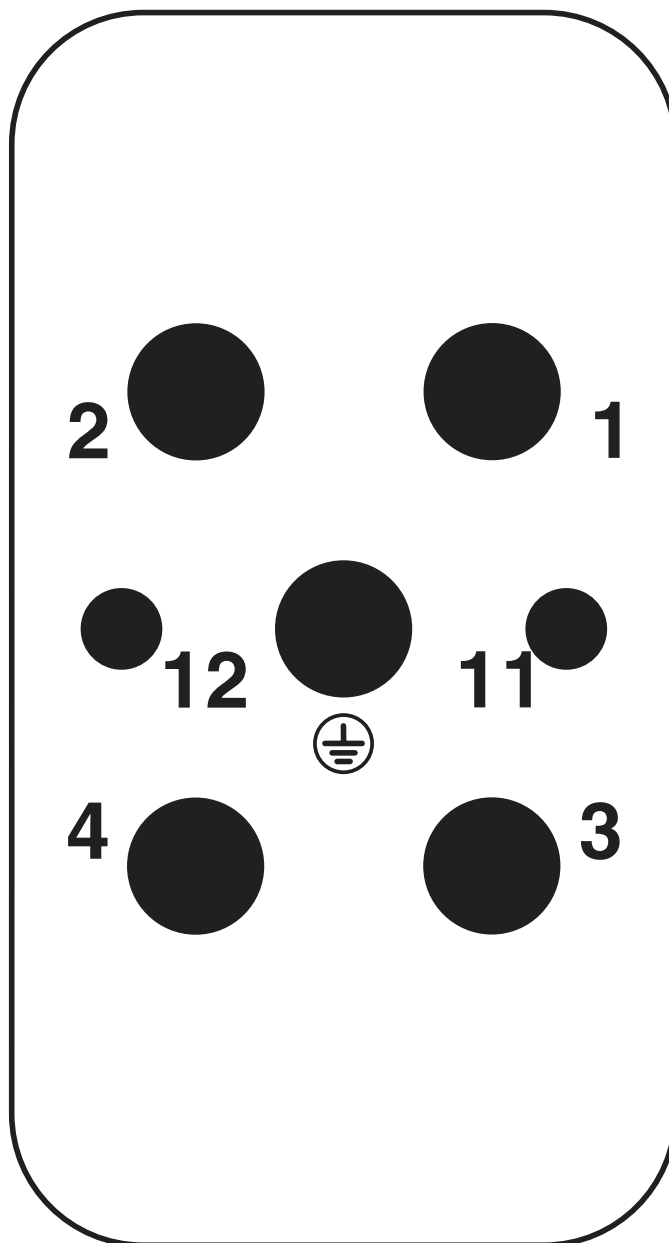
Dimensional drawing

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Schematic diagram



Connector pin assignment, connection side

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## Classifications

### ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

### ETIM

ETIM 8.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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## Accessories

### CP-HC-S - Coding profile

1410916

<https://www.phoenixcontact.com/us/products/1410916>

Coding profile, for contact inserts HC-BB... / HC-A10... / HC-A16...



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### CRIMPFOX CENTRUS 6S - Crimping pliers

1213144

<https://www.phoenixcontact.com/us/products/1213144>



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm<sup>2</sup> ... 6 mm<sup>2</sup>, also for TWIN ferrules up to 2 x 4 mm<sup>2</sup>, automatic cross section adjustment, lateral insertion, equipped with fall protection

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## CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/us/products/1212034>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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## CF CRIMPHANDY 0,5 - Electrical crimping tool

1212463

<https://www.phoenixcontact.com/us/products/1212463>



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.5 mm<sup>2</sup> with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.5 mm<sup>2</sup>, packed in a robust case.

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## CF CRIMPHANDY 0,75 - Electrical crimping tool

1212464

<https://www.phoenixcontact.com/us/products/1212464>



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.75 mm<sup>2</sup> with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.75 mm<sup>2</sup>, packed in a robust case.

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## CF CRIMPHANDY 1,0 - Electrical crimping tool

1212465

<https://www.phoenixcontact.com/us/products/1212465>



Mobile handheld device, battery-powered, for processing on-tape ferrules 1.0 mm<sup>2</sup> with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.0 mm<sup>2</sup>, packed in a robust case.

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## CF CRIMPHANDY 1,5 - Electrical crimping tool

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Mobile handheld device, battery-powered, for processing on-tape ferrules 1.5 mm<sup>2</sup> with functional end, suitable for PVC insulated conductors (H07V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.5 mm<sup>2</sup>, packed in a robust case.

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

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

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