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

1079557

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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^2 ... 6 mm^2, 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	1079557
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABH
GTIN	4055626800356
Weight per piece (including packing)	54.6 g
Weight per piece (excluding packing)	56.3 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	Connectors may be operated only when there is no load/voltage.
Note on UL requirements	When installing in accordance with UL, note: “For use with conductors rated 75°C”

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Note regarding axial connection technology: 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. **Assembly instructions** 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.
Hexagonal socket	SW 2

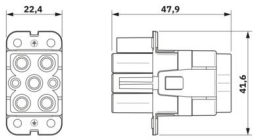
Product properties

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	22.5 mm
Height	48 mm
Length	42 mm

Mechanical characteristics

Contact diameter	4 mm

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 mm² ... 6 mm² (power contacts)
	0.34 mm² ... 1.5 mm² (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 mm² ... 6,0 mm²)
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

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)

Environmental and real-life conditions

Ambient conditions

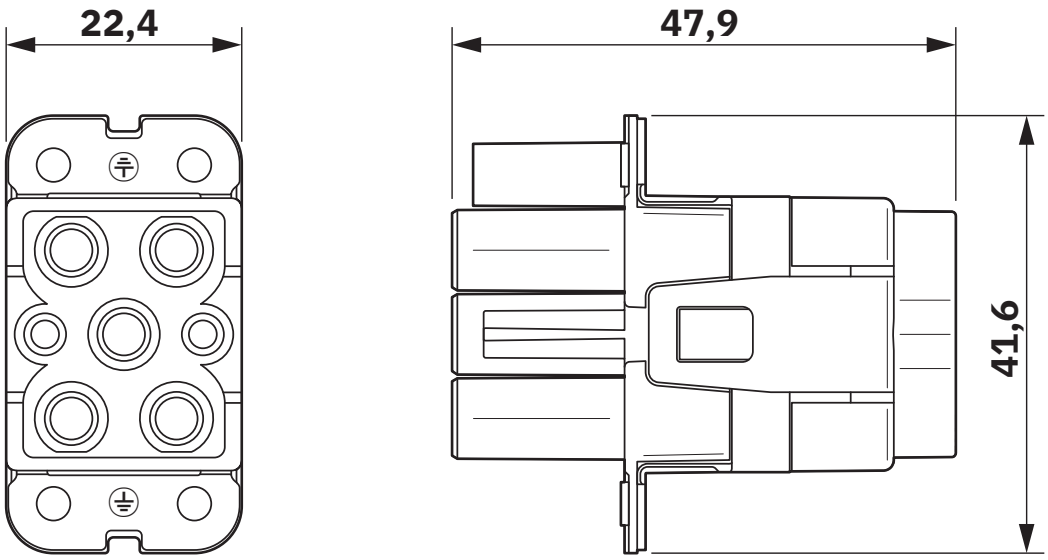
Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)

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)

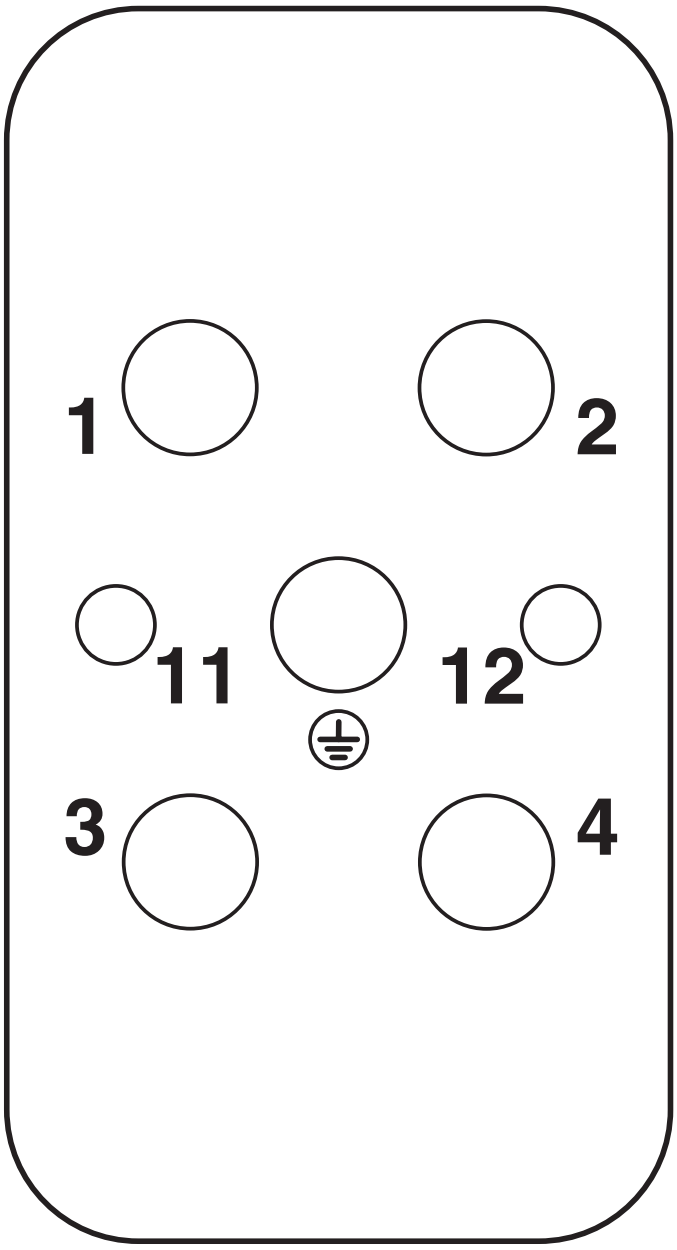
Drawings

Dimensional drawing



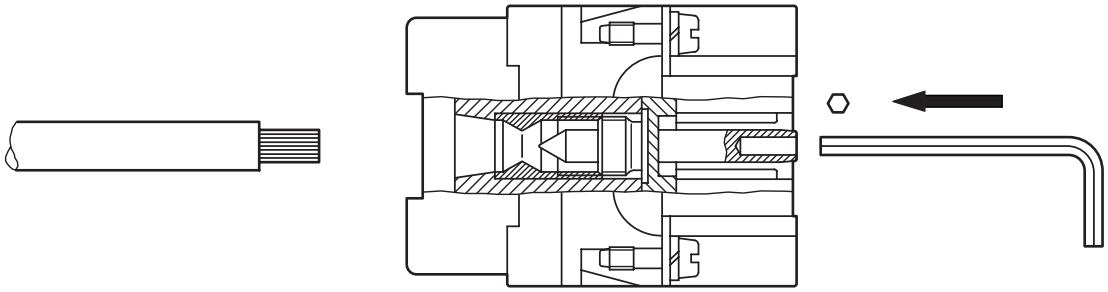
Dimensional drawing

Schematic diagram



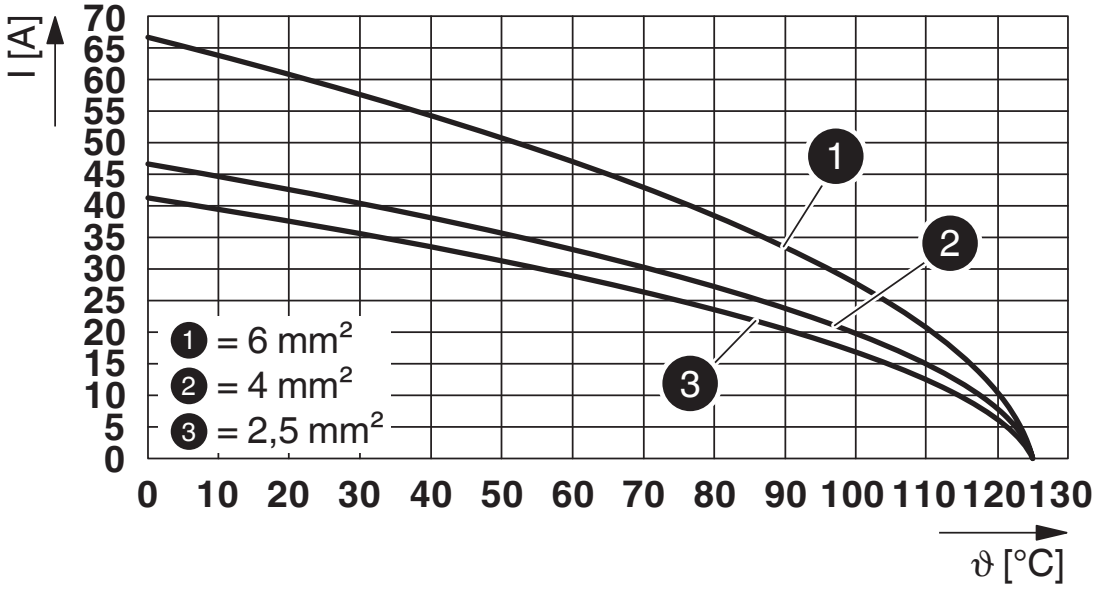
Connector pin assignment, connection side

Schematic diagram



Axial screw connection

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1079557

UL Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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Power	600 V	48 A	- 10	-
Signal	600 V	10 A	- 14	-

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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