

HC-COM-Q4/2-I-CT-F-PL - Contact insert



1459657

<https://www.phoenixcontact.com/ae/products/1459657>

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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, Crimp connection, 400 V, 40 A, 1.5 mm² ... 10 mm², application: Power/signal, Only suitable for plastic housings

Product description

Contact insert, incl. 4 mounting screws

Your advantages

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

Commercial data

Item number	1459657
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7
Product key	BF7ABH
GTIN	4063151849474
Weight per piece (including packing)	12.1 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85389099
Country of origin	PL

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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
	Can only be used in plastic housing

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

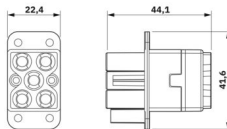
Data management status

Article revision	00
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	22.4 mm
Height	44.1 mm
Length	41.6 mm

Mechanical characteristics

Contact diameter	4 mm
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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 mm ² ... 10 mm ² (power contacts)
	0.14 mm ² ... 2.5 mm ² (control contacts)
Connection cross section AWG	16 ... 8 (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 ²)
	9.6 mm (Power 4 ... 6 mm ²)
	16 mm (10 mm ² power circuit)
	6 mm (Signal 2.5 mm ²)

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

Mechanical data

Insertion/withdrawal cycles	≥ 500
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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)
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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1459657

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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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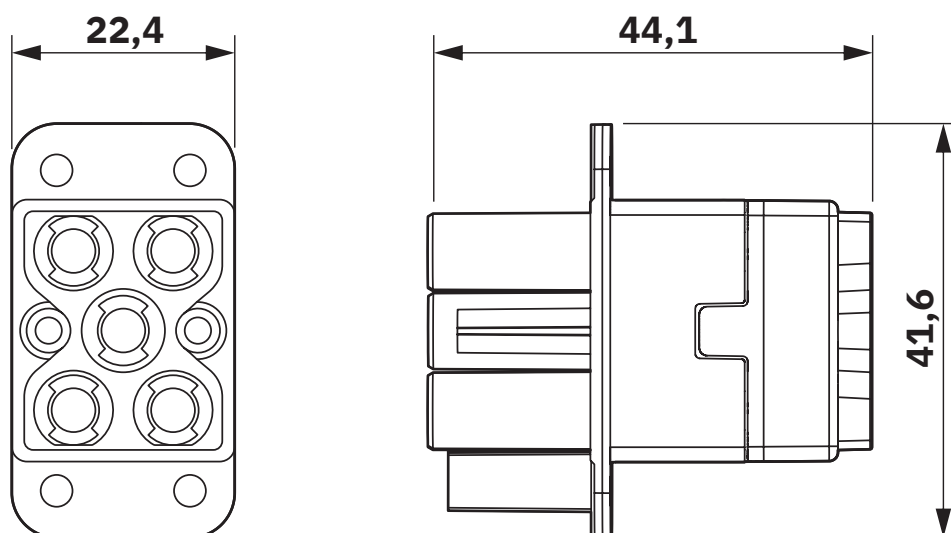


1459657

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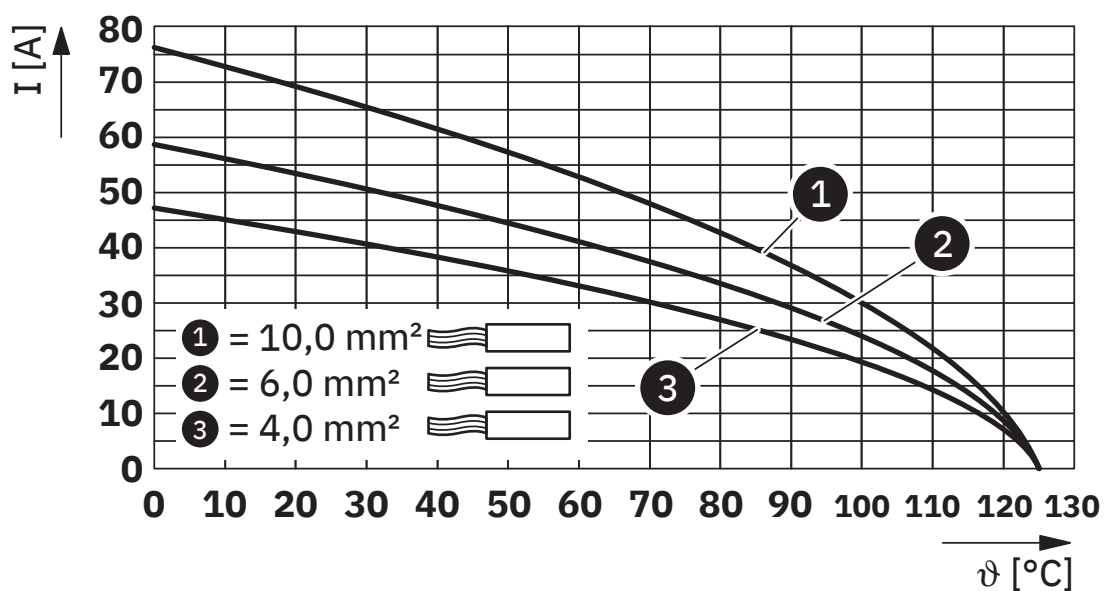
Drawings

Dimensional drawing



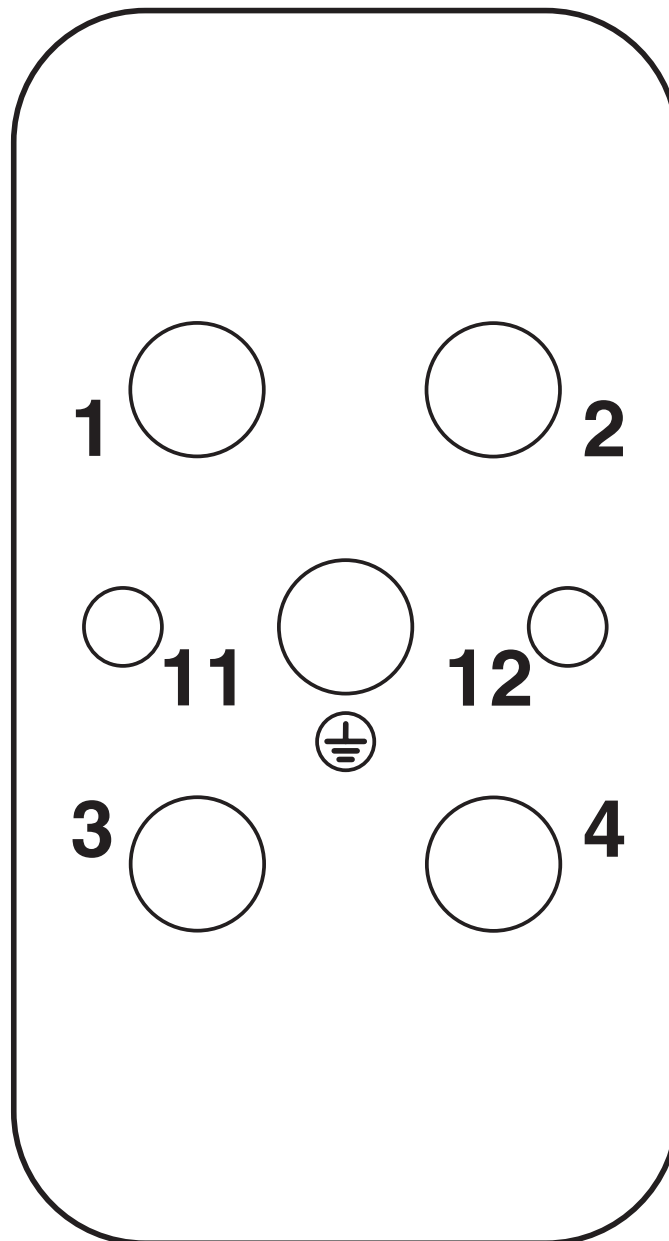
Dimensional drawing

Diagram



Derating diagram

Schematic diagram



Connector pin assignment, connection side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ae/products/1459657>



UL Recognized
Approval ID: E468743

	CSA Approval ID: 2783869			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	38 A	- 8	-
Signal	600 V	10 A	- 14	-

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
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Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	0480a07c-ca8d-4004-8907-bbbb5a63d79e