

# HC-Q07-I-CT-F - Contact insert

1418623

<https://www.phoenixcontact.com/us/products/1418623>



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Contact insert, number of positions: 7+PE, size: D7, number of connections per position: 1, Socket, Crimp connection, 400 V, 12 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

## Your advantages

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

## Commercial data

Item number	1418623
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABJ
GTIN	4055626249360
Weight per piece (including packing)	16.964 g
Weight per piece (excluding packing)	16.964 g
Customs tariff number	85389099
Country of origin	CN

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## Technical data

### Notes

General	For HC-D7 housing, crimp contacts CK1,6-ED (crimp contacts not included in scope of supply)
General	Connectors may be operated only when there is no load/voltage.

### Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Four different coding options to prevent mismatching.

Contact insert including IP67 sealing screw.

### Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-Q
Type	D7
Number of positions	7
Connection profile	7+PE
Contact numbering	1 - 7
Number of connections per position	1
Contact material type	turned
	rolled

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	21 mm
Height	40.1 mm
Length	21 mm

### Mechanical characteristics

Contact diameter	1.6 mm
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### Connection data

Connection technology	Crimp connection
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	PE connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN
Conductor connection	
Conductor cross section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	8 mm 6 mm (2.5 mm <sup>2</sup> )

## Electrical properties

Rated voltage (III/3)	400 V
Rated surge voltage	6 kV
Rated current	12 A
Test voltage	6 kV

## 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
Standards/regulations	PC

## Environmental and real-life conditions

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

## Standards and regulations

Constructional and testing regulations	DIN VDE 0627/86 DIN VDE 0110/02.79 DIN VDE 0110-1/04.97 IEC 60664-1, DIN IEC 60512 IEC 60352
Tests	DIN VDE 0627/86 DIN VDE 0110/02.79 DIN VDE 0110-1/04.97 IEC 60664-1, DIN IEC 60512 IEC 60352

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## 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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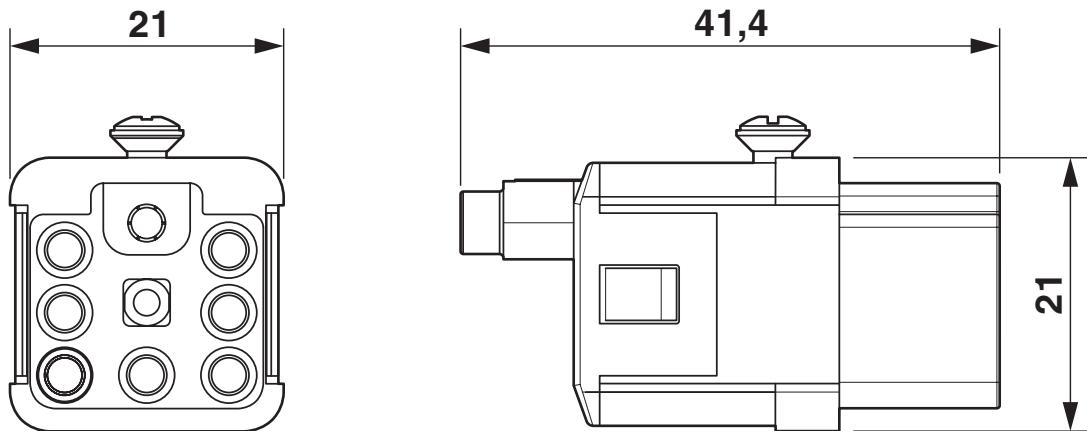
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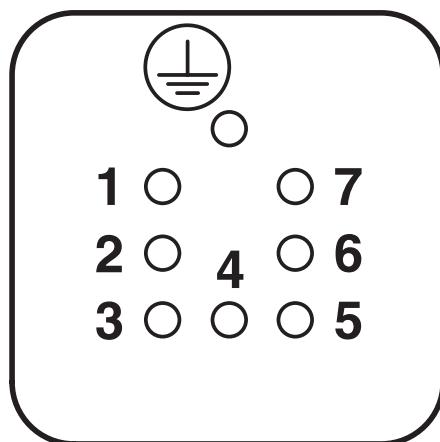
## Drawings

Dimensional drawing



Female insert (turned contacts)

Schematic diagram



Connector pin assignment (connection side)

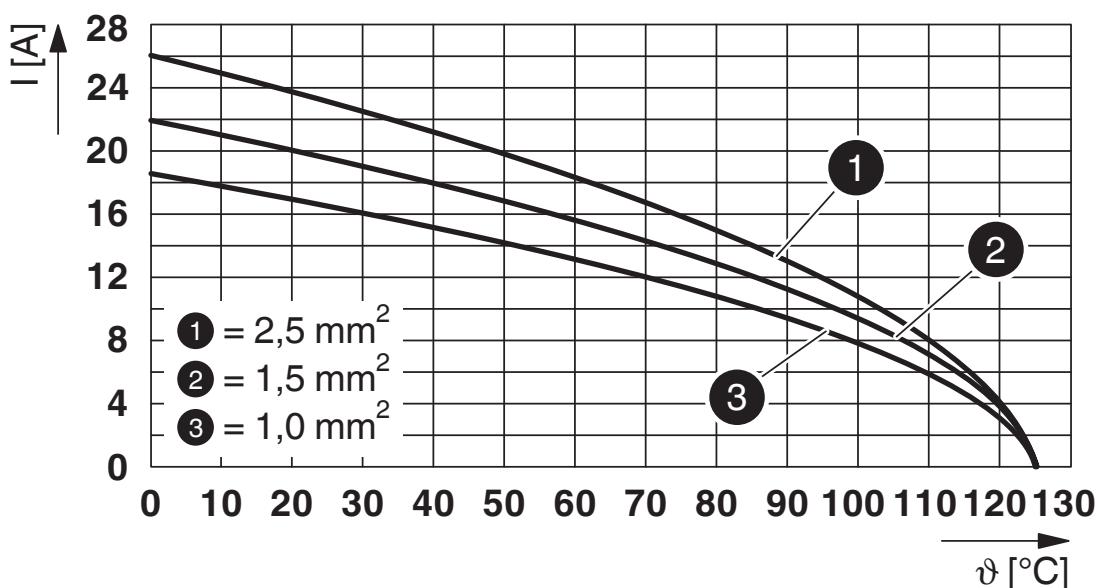
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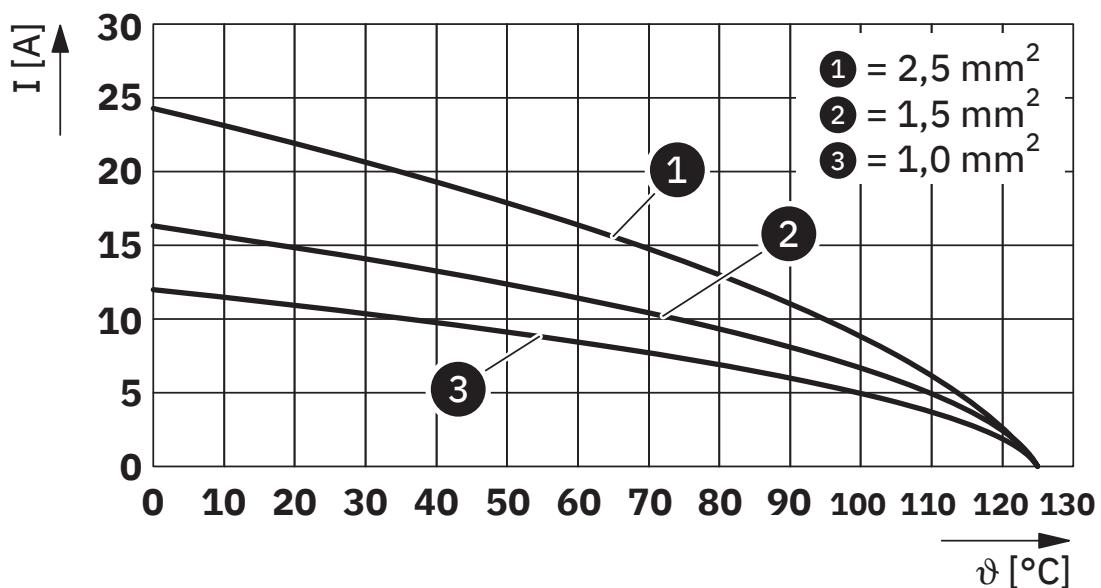


Diagram



Derating diagram turned contacts

Diagram



Derating diagram rolled contacts

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418623>

**DNV**

Approval ID: TAE000037S

 <b>CSA</b> Approval ID: 13631	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	600 V	13.5 A	- 14	-

 <b>UL Recognized</b> Approval ID: E118976	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	600 V	17.5 A	- 14	-

 <b>UL Recognized</b> Approval ID: E468743	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	600 V	15 A	-	-

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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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