

# Contact insert - HC-Q05-I-CT-M - 1406538

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Contact insert, number of positions: 5+PE, size: D7, number of connections per position: 1, Pin, Crimp connection, 230 V/400 V, 20 A, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Power



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356932363

## Technical data

### General

Note	for HC-D7 housing, CK2,5-ED crimp contacts (crimp contacts not included in scope of supply)
	Connectors may be operated only when there is no load/voltage.
Connection method	Crimp connection
Number of connections per position	1
Degree of pollution	3
Overvoltage category	III
Number of positions	5+PE
Insertion/withdrawal cycles	≥ 500
Size	D7
Contact numbering	1 - 5
Conductor cross section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	20 ... 14
Connection cross section PE contact	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section PE contact AWG	20 ... 14
Stripping length of the individual wire	7.5 mm
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required

# Contact insert - HC-Q05-I-CT-M - 1406538

## Technical data

### Ambient conditions

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

### Material data

Seal material	NBR, conductive
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

### Electrical characteristics

Rated voltage for power contacts	230/400 V
Rated voltage (III/3)	230 V (Conductor-PE)
	400 V (Conductor-Conductor)
Rated surge voltage	4 kV
Rated current	20 A (power contacts)

### Standards and Regulations

Flammability rating according to UL 94	V0
Standards/regulations	acc. to DIN EN 45545-2

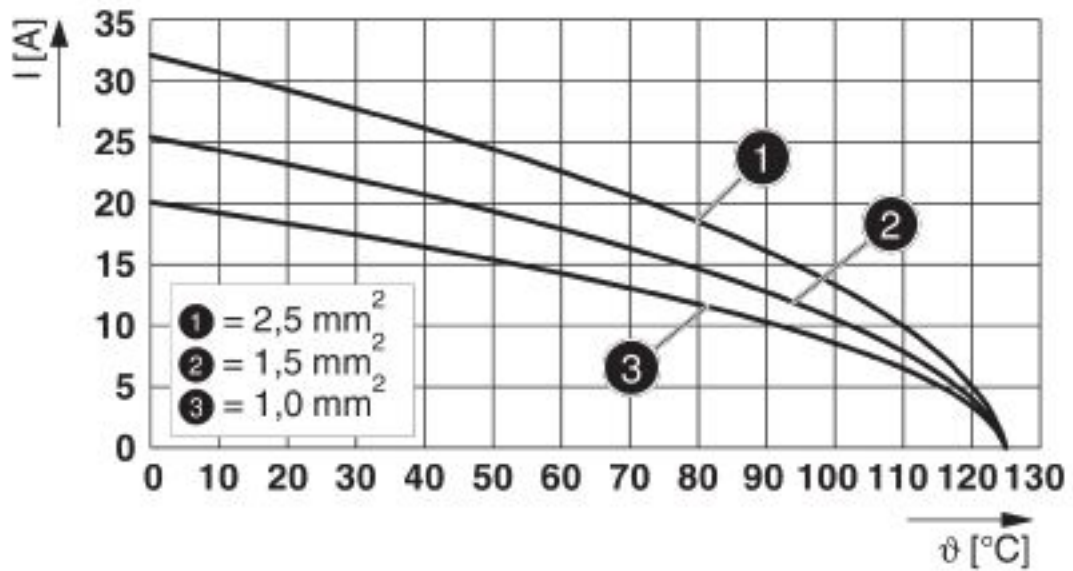
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

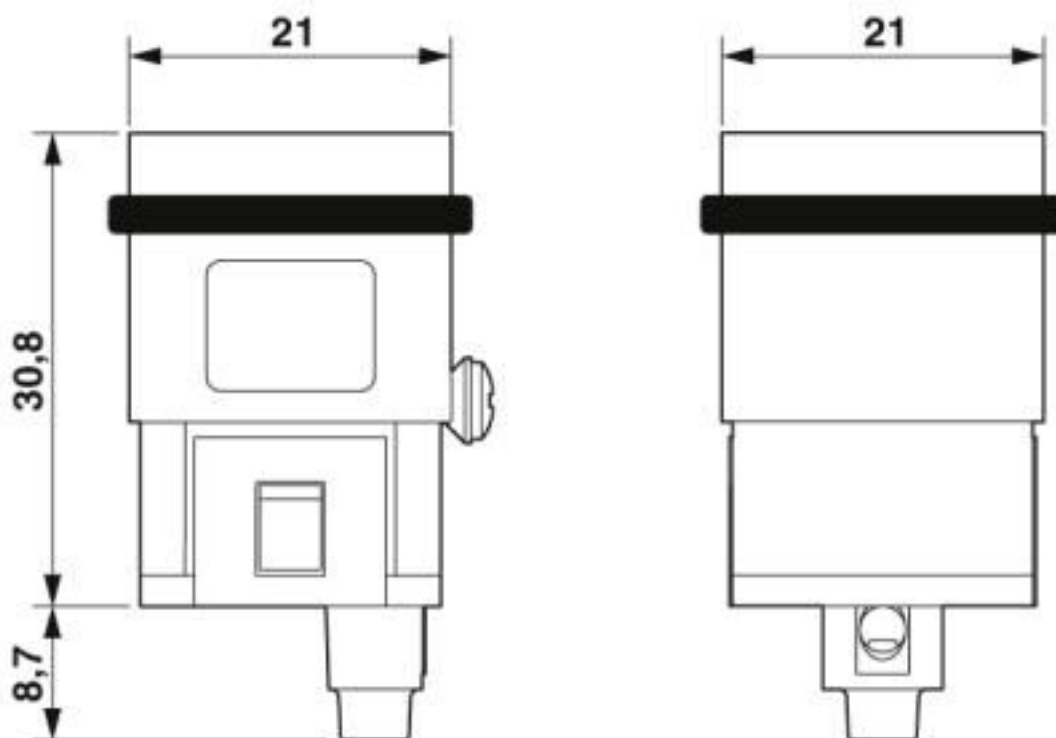
# Contact insert - HC-Q05-I-CT-M - 1406538

Diagram



Derating diagram turned contacts

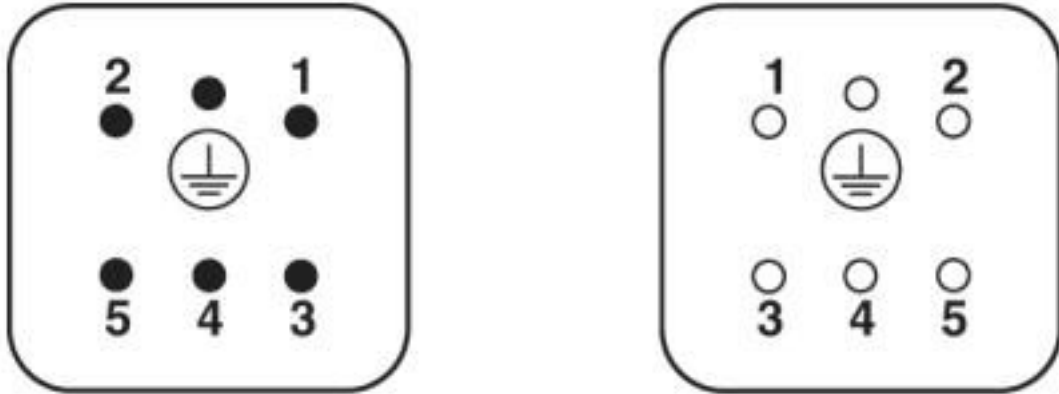
Dimensional drawing



Male insert

# Contact insert - HC-Q05-I-CT-M - 1406538

Schematic diagram



Contact-side pin assignment

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440205
eCl@ss 11.0	27440205
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440205
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

### ETIM

ETIM 4.0	EC000438
ETIM 5.0	EC000438
ETIM 6.0	EC000438
ETIM 7.0	EC000438

### UNSPSC

UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Approvals

### Approvals

# Contact insert - HC-Q05-I-CT-M - 1406538


## Approvals


Approvals


CSA / UL Recognized / EAC / DNV GL / EAC

Ex Approvals

## Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	013631_0_000
Nominal voltage UN		600 V	
Nominal current IN		15 A	
mm <sup>2</sup> /AWG/kcmil		14	

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN		600 V	
Nominal current IN		24 A	
mm <sup>2</sup> /AWG/kcmil		14	

EAC			RU C- DE.AI30.B.01102
-----	---	--	--------------------------

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE000037S
--------	---	---	------------

EAC			RU C- DE.BL08.B.00511
-----	---	--	--------------------------

## Accessories

Accessories

Coding element

## Contact insert - HC-Q05-I-CT-M - 1406538

### Accessories

Dummy socket - CK2,5-ED-BB - 1584693



Dummy socket for contact carrier with turned CK 2,5-ED... socket contacts. For HC-A../HC-BB../HC-M... series contact inserts.

---

### Crimp contact

Crimp contact - CK2,5-ED-0,50ST AG - 1663572



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup> AWG 20

---

Crimp contact - CK2,5-ED-0,75ST AG - 1663585



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup> AWG 18

---

Crimp contact - CK2,5-ED-1,00ST AG - 1663598



Turned 2.5 crimp contact, individual male contact, core diameter 0.75 to 1.00 mm<sup>2</sup>, silver-plated

---

Crimp contact - CK2,5-ED-1,50ST AG - 1663608



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup> AWG 16

---

## Contact insert - HC-Q05-I-CT-M - 1406538

### Accessories

Crimp contact - CK2,5-ED-2,50ST AG - 1663611



Turned 2.5 crimp contact, individual male contact, core diameter 2.5 mm<sup>2</sup>, silver-plated

---

Crimp contact - CK2,5-ED-3,00ST AG - 1663624



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: hard-silver plated, connection cross section: 3 mm<sup>2</sup> ... 3 mm<sup>2</sup> AWG 12

---

Crimp contact - CK2,5-ED-4,00ST AG - 1663637



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup> AWG 12

---

Crimp contact - CK2,5-ED-0,50ST AU - 1674804



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup> AWG 20

---

Crimp contact - CK2,5-ED-1,00ST AU - 1674781



Turned 2.5 crimp contact, individual male contact, core diameter 0.75 to 1.0 mm<sup>2</sup>, gold-plated

---

## Contact insert - HC-Q05-I-CT-M - 1406538

### Accessories

Crimp contact - CK2,5-ED-1,50ST AU - 1674778



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup> AWG 16

Crimp contact - CK2,5-ED-2,50ST AU - 1674817



Turned 2.5 crimp contact, individual male contact, core diameter 2.5 mm<sup>2</sup>, gold-plated

Crimp contact - CK2,5-ED-4,00ST AU - 1674794



Turned 2.5 crimp contact, individual male contact, core diameter 4.00 mm<sup>2</sup>, gold-plated

### Crimping tool

Crimping pliers - CRIMPFOX-TC 4 - 1212113



Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

### Mounting material

Sealing screw - HC-D 7-DS-IP65 - 1686229



Sealing screw, size: Countersunk head, IP67, replacement part for D7 size HEAVYCON housing

### Seal

## Contact insert - HC-Q05-I-CT-M - 1406538

### Accessories

Profile gasket - HC-D07-SP-RBK - 1419622



Profile gasket, type: D7, for pin inserts

---

### Universal tools

Contact removal tool - UNIFOX RT-CK 2.5 - 1072067



Contact removal tool, for turned CK 2,5... contacts

---

### Additional products

Contact insert - HC-Q05-I-CT-F - 1406537



Contact insert, number of positions: 5+PE, size: D7, number of connections per position: 1, Socket, Crimp connection, 230 V/400 V, 20 A, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Power

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>