

HC-A16-I-PT-M - Contact insert

1585375

<https://www.phoenixcontact.com/us/products/1585375>



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 documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 16+PE, size: D25, number of connections per position: 1, Pin, Push-in connection, 250 V, 16 A, 0.14 mm² ... 2.5 mm²

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	1585375
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABB
GTIN	4046356285100
Weight per piece (including packing)	55.1 g
Weight per piece (excluding packing)	20 g
Customs tariff number	85366990
Country of origin	CN

HC-A16-I-PT-M - Contact insert

1585375

<https://www.phoenixcontact.com/us/products/1585375>



Technical data

Notes

General	only use flexible conductors with ferrules
General	Connectors may be operated only when there is no load/voltage.
General	for HC-D25 / HC-D 50 housing

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	for plastic coding profiles: 4 pcs.

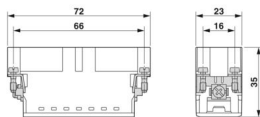
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-A
Type	D25
	D50
Number of positions	16
Connection profile	16+PE
Contact numbering	1 - 16
Number of connections per position	1
Contact material type	rolled
Screwdriver blade	0.5 x 3.5 mm

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	23 mm
Height	34.1 mm
Length	72 mm
Drill hole distance, horizontal	66 mm
Drill hole distance, vertical	16 mm

Mechanical characteristics

Contact diameter	2.5 mm
------------------	--------

Connection data

Connection technology

HC-A16-I-PT-M - Contact insert

1585375

<https://www.phoenixcontact.com/us/products/1585375>



Connection technology	Push-in connection
Number of connections per position	1

Conductor connection

Conductor cross section	0.14 mm² ... 2.5 mm²
Connection cross section AWG	26 ... 14
Tightening torque	0.7 Nm ... 1 Nm (PE connection) 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	8 mm

Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV 4 kV
Rated current	16 A

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
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

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)
-----------------------	---

HC-A16-I-PT-M - Contact insert

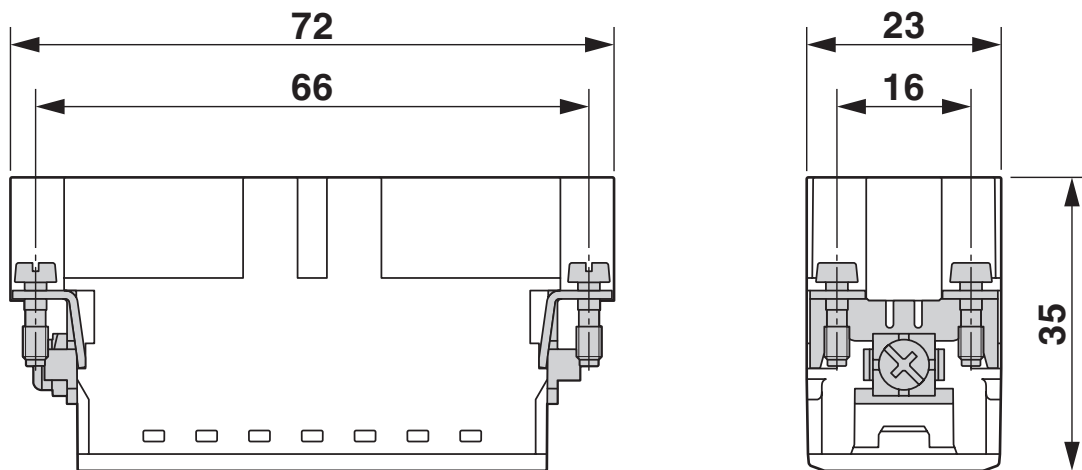
1585375

<https://www.phoenixcontact.com/us/products/1585375>



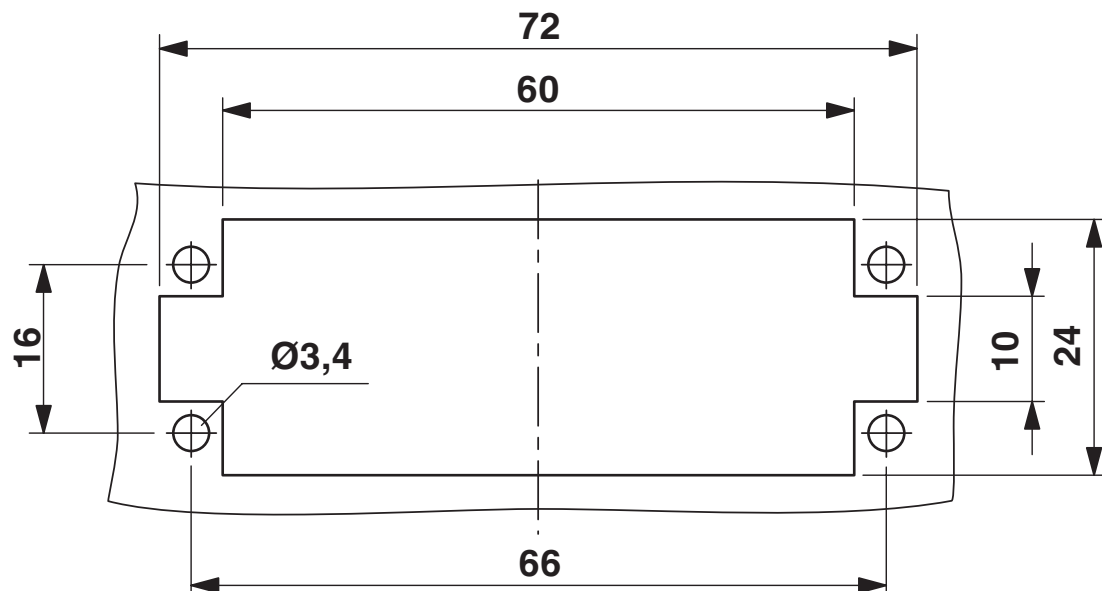
Drawings

Dimensional drawing



Male insert

Dimensional drawing



Mounting cutout when used without housing

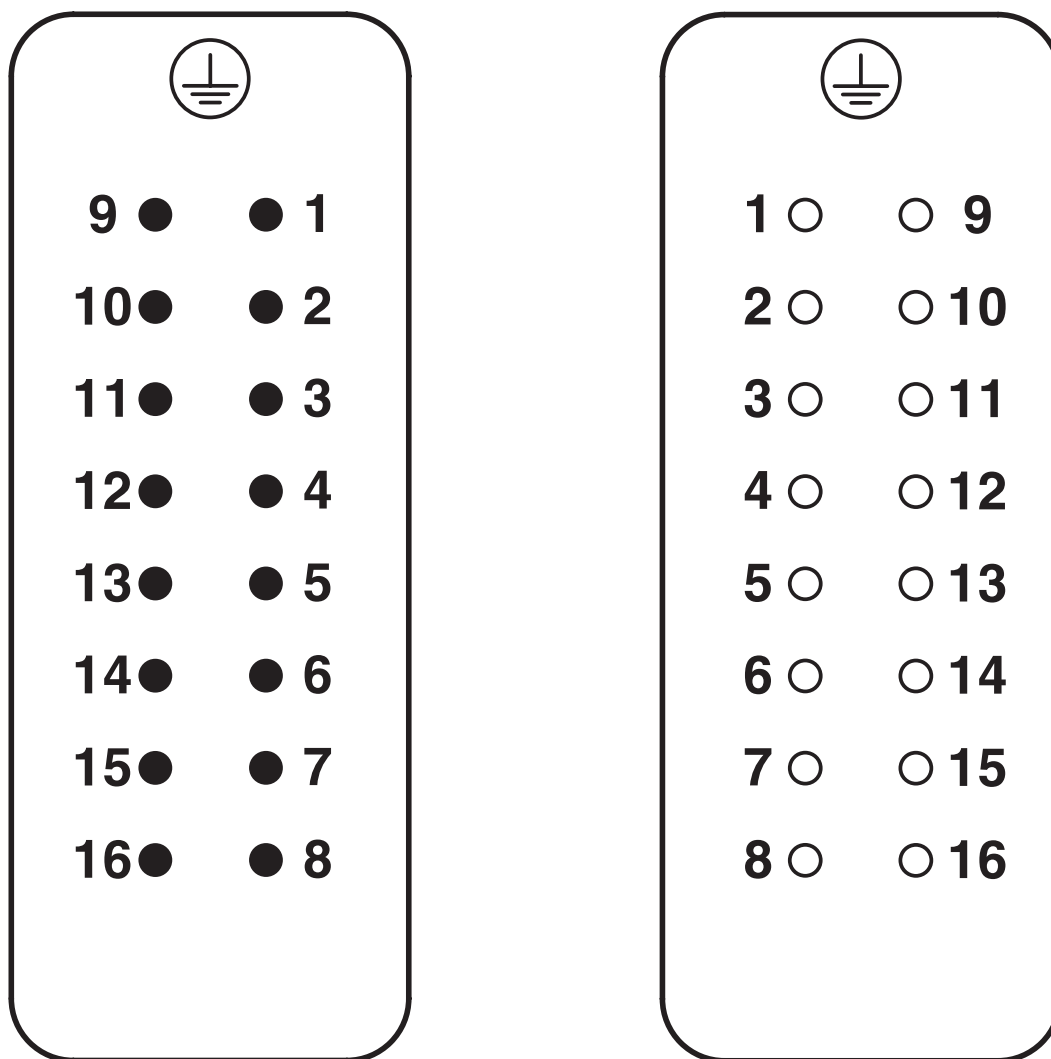
HC-A16-I-PT-M - Contact insert

1585375

<https://www.phoenixcontact.com/us/products/1585375>



Schematic diagram

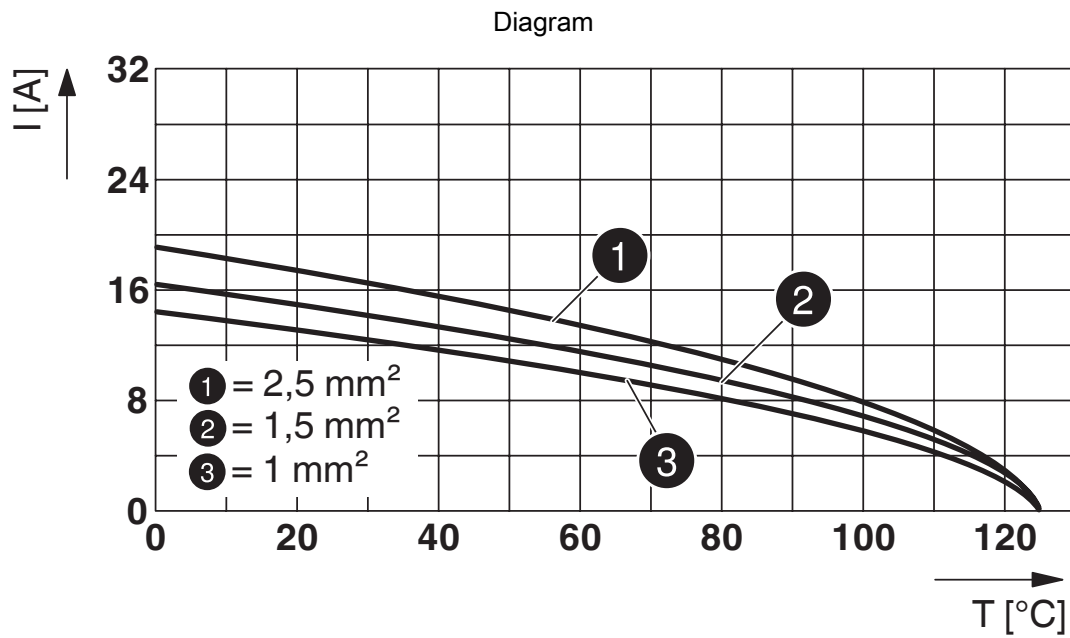


Connector pin assignment, connection side

HC-A16-I-PT-M - Contact insert

1585375

<https://www.phoenixcontact.com/us/products/1585375>



Derating diagram

HC-A16-I-PT-M - Contact insert

1585375

<https://www.phoenixcontact.com/us/products/1585375>



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1585375>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	13 A	- 14	-



UL Recognized

Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	16 A	- 14	-



UL Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	16 A	-	-

HC-A16-I-PT-M - Contact insert



1585375

<https://www.phoenixcontact.com/us/products/1585375>

Classifications

ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

ETIM

ETIM 9.0	EC000438
----------	----------

UNSPSC

UNSPSC 21.0	39121500
-------------	----------

HC-A16-I-PT-M - Contact insert



1585375
<https://www.phoenixcontact.com/us/products/1585375>

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%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com