

HC-B 6-ESTQ-2,5 - Contact insert



1605611

<https://www.phoenixcontact.com/gb/products/1605611>

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: 6+PE, size: B6, number of connections per position: 1, Pin, QUICKON connection, 500 V, 16 A, 0.34 mm² ... 2.5 mm²

Product description

Contact insert

With QUICKON connection technology, the wires are connected with just a turn of the screwdriver. The wires do not have to be stripped first. This reduces connection time by at least 60%.

Your advantages

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

Commercial data

Item number	1605611
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AF7ABC
Product key	AF7ABC
Catalog page	Page 541 (C-2-2019)
GTIN	4017918940706
Weight per piece (including packing)	53.9 g
Weight per piece (excluding packing)	53.24 g
Customs tariff number	85366990
Country of origin	PL

HC-B 6-ESTQ-2,5 - Contact insert

1605611

<https://www.phoenixcontact.com/gb/products/1605611>



Technical data

Notes

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
---------------	---

Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-B
Type	B6
Number of positions	6
Connection profile	6+PE
Contact numbering	1 - 6
Number of connections per position	1
Contact material type	rolled

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	35 mm
Length	51.5 mm
Drill hole distance, horizontal	44 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

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

Connection data

Connection technology

Connection technology	QUICKON connection
Number of connections per position	1

Conductor connection

HC-B 6-ESTQ-2,5 - Contact insert



1605611

<https://www.phoenixcontact.com/gb/products/1605611>

Conductor cross section	0.34 mm² ... 2.5 mm² (Litz wire structure VDE 0295, Class 1 - 5/litz wire diameter \geq 0.2 mm)
Connection cross section AWG	22 ... 14
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection) 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)

Electrical properties

Rated voltage (III/3)	500 V
	500 V
Rated surge voltage	6 kV
	6 kV
Rated current	16 A
	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	\geq 500
-----------------------------	------------

Material specifications

Material Wire insulation	PVC / PE
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Standards/regulations	PA
	PA

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
Ambient temperature (assembly)	-25 °C ... 50 °C

Standards and regulations

Testing

Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

HC-B 6-ESTQ-2,5 - Contact insert

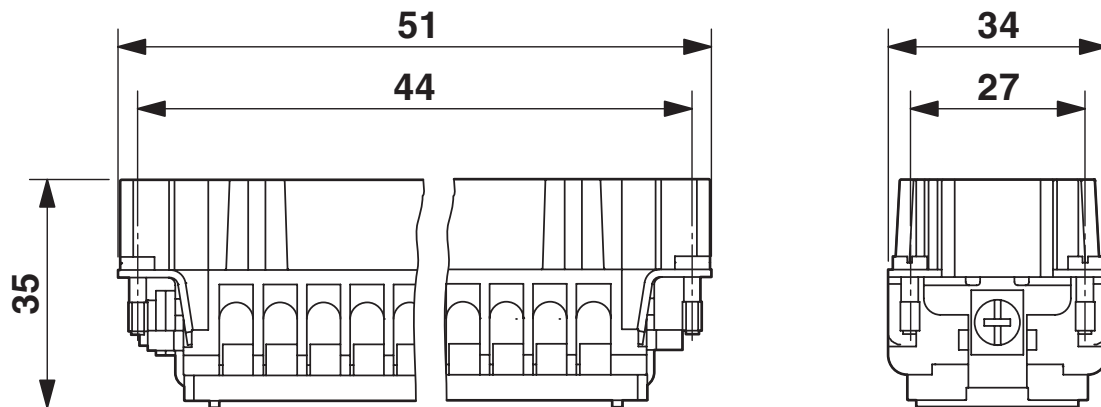
1605611

<https://www.phoenixcontact.com/gb/products/1605611>



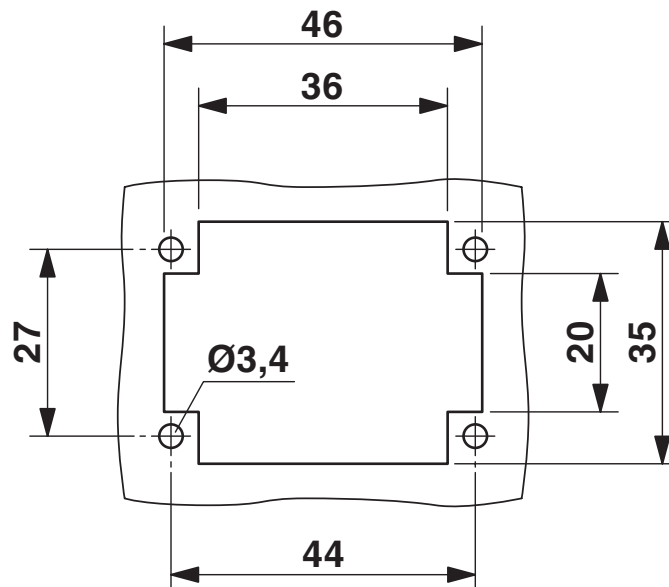
Drawings

Dimensional drawing



Male insert

Dimensional drawing



Mounting cutout when used without housing

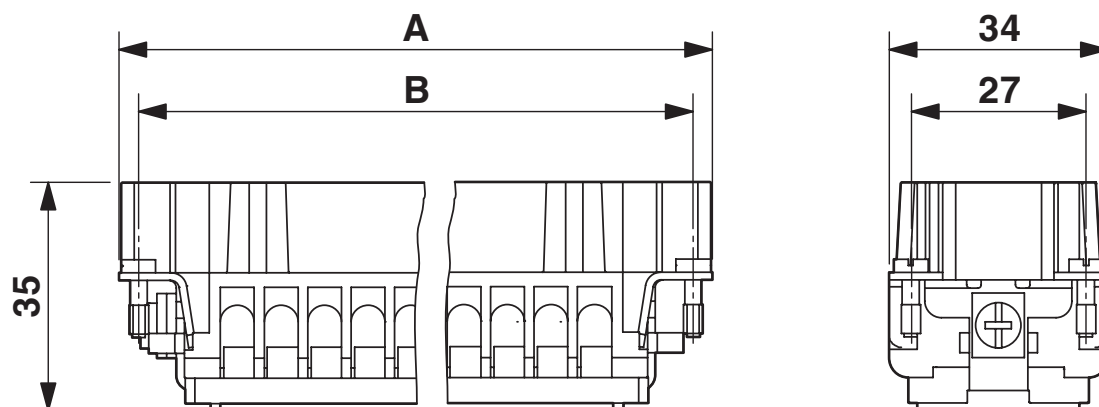
HC-B 6-ESTQ-2,5 - Contact insert

1605611

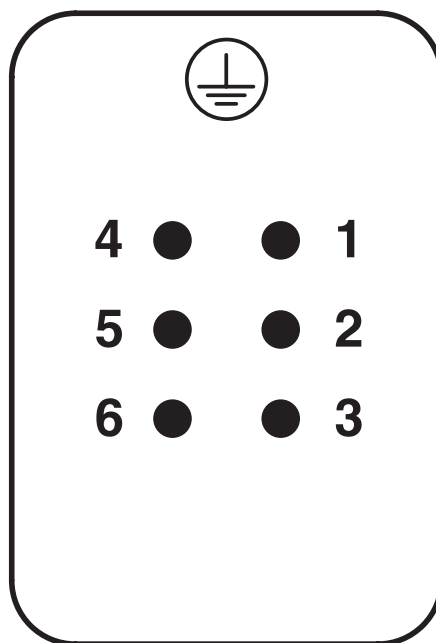
<https://www.phoenixcontact.com/gb/products/1605611>



Dimensional drawing



Schematic diagram



Connector pin assignment, connection side

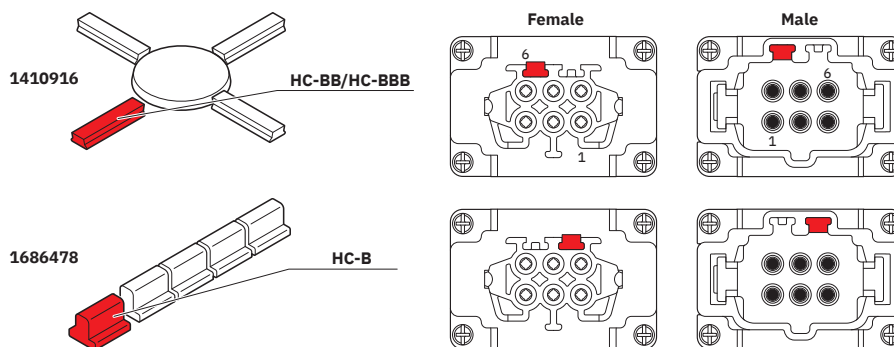
HC-B 6-ESTQ-2,5 - Contact insert

1605611

<https://www.phoenixcontact.com/gb/products/1605611>

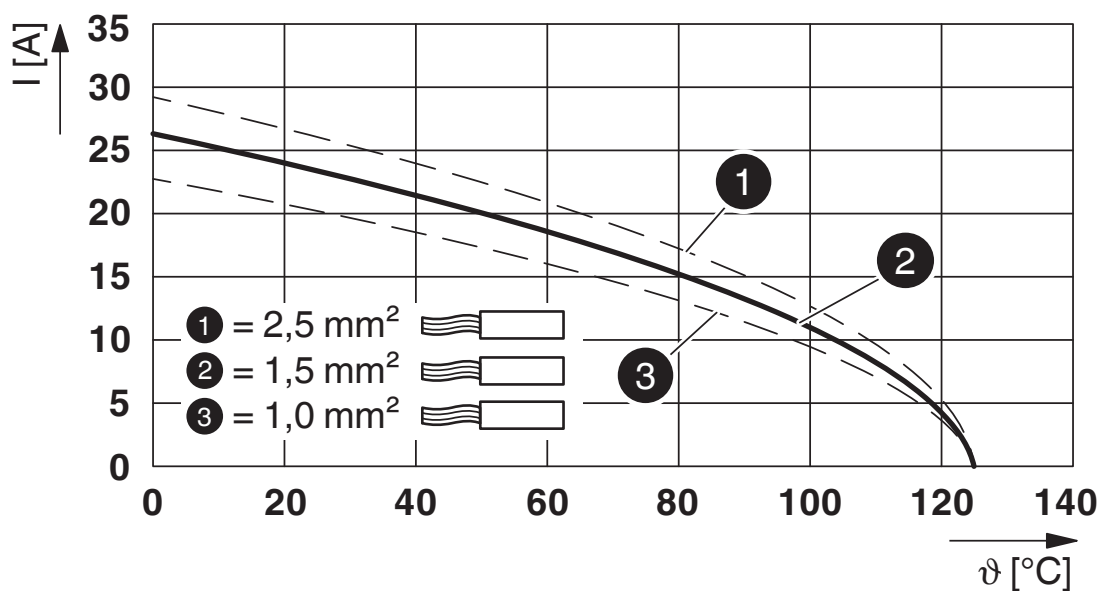


Schematic diagram



Coding options

Diagram



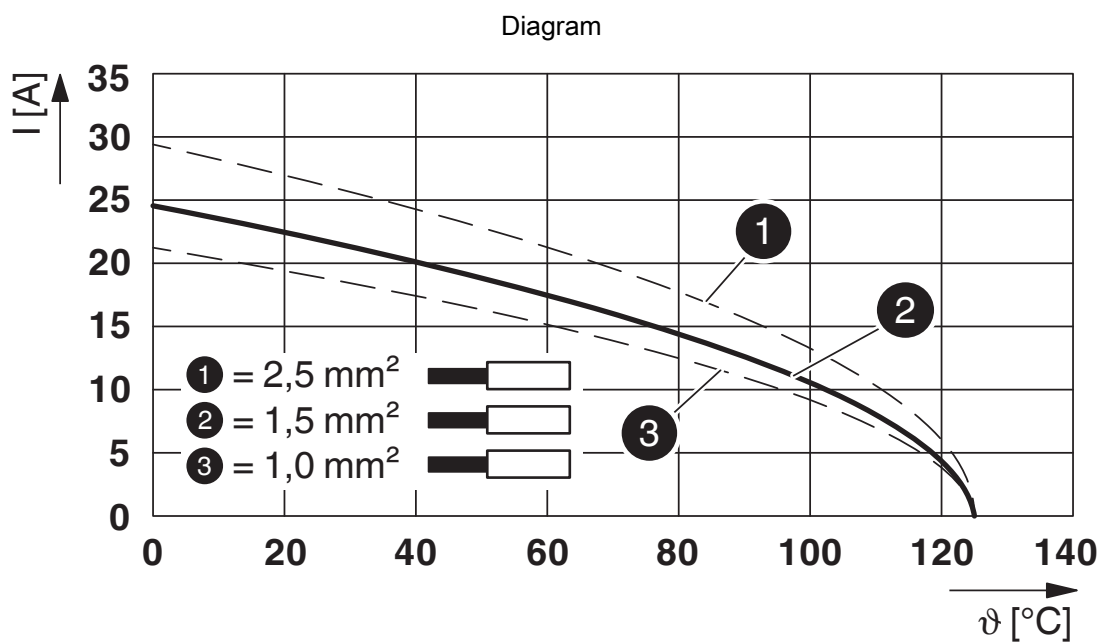
Derating diagram for flexible conductors

HC-B 6-ESTQ-2,5 - Contact insert



1605611

<https://www.phoenixcontact.com/gb/products/1605611>



Derating diagram for solid conductors

HC-B 6-ESTQ-2,5 - Contact insert



1605611

<https://www.phoenixcontact.com/gb/products/1605611>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1605611>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_6233_01



cUL Recognized

Approval ID: E118976



UL Recognized

Approval ID: E118976

HC-B 6-ESTQ-2,5 - Contact insert



1605611

<https://www.phoenixcontact.com/gb/products/1605611>

Classifications

ECLASS

ECLASS-13.0	27440205
-------------	----------

ETIM

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

UNSPSC

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

HC-B 6-ESTQ-2,5 - Contact insert



1605611

<https://www.phoenixcontact.com/gb/products/1605611>

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 Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk