

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

1605556

<https://www.phoenixcontact.com/in/products/1605556>



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Contact insert, number of positions: 6+PE, size: B6, number of connections per position: 1, Socket, 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	1605556
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BF7
Product key	AF7ABC
Catalog page	Page 541 (C-2-2019)
GTIN	4017918940645
Weight per piece (including packing)	56.02 g
Weight per piece (excluding packing)	54.68 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Notes

General	Connectors may be operated only when there is no load/voltage.
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Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
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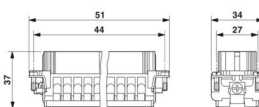
Product properties

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	37 mm
Length	51 mm
Drill hole distance, horizontal	44 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Contact diameter	2.5 mm
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Connection data

Connection technology

Connection technology	QUICKON connection
Number of connections per position	1

Conductor connection

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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
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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: 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)

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)

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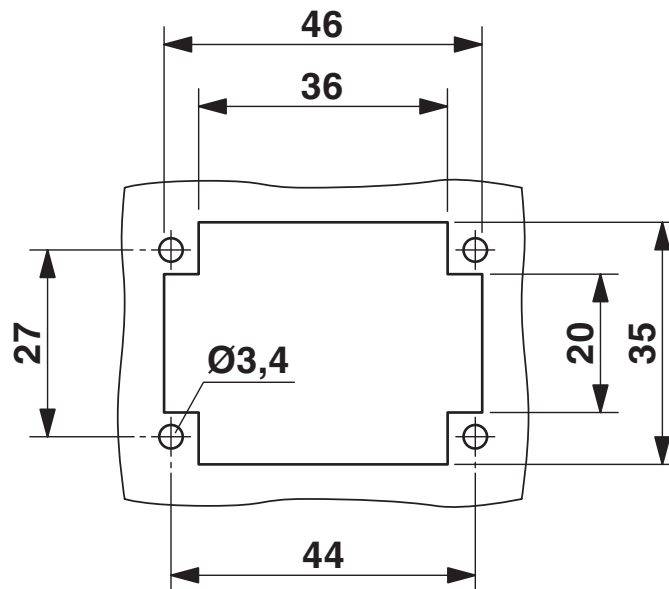
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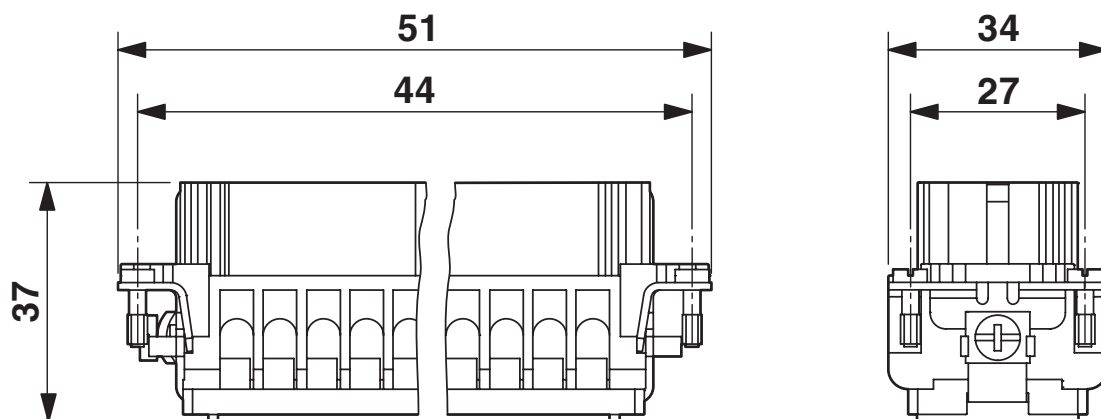
Drawings

Dimensional drawing



Mounting cutout when used without housing

Dimensional drawing



Female insert

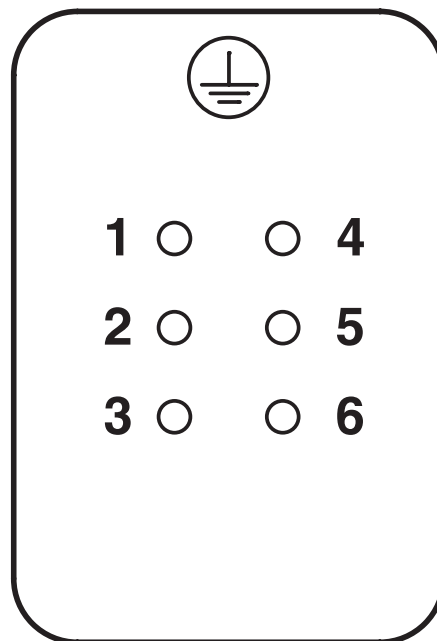
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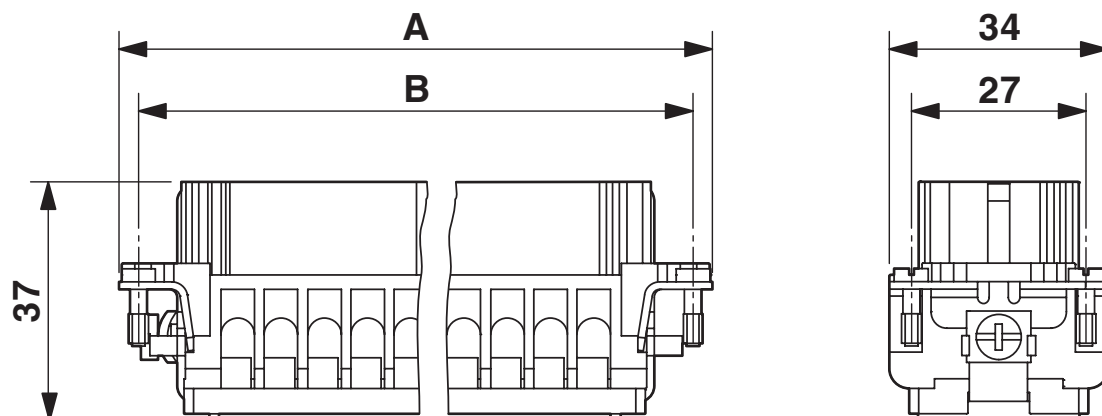


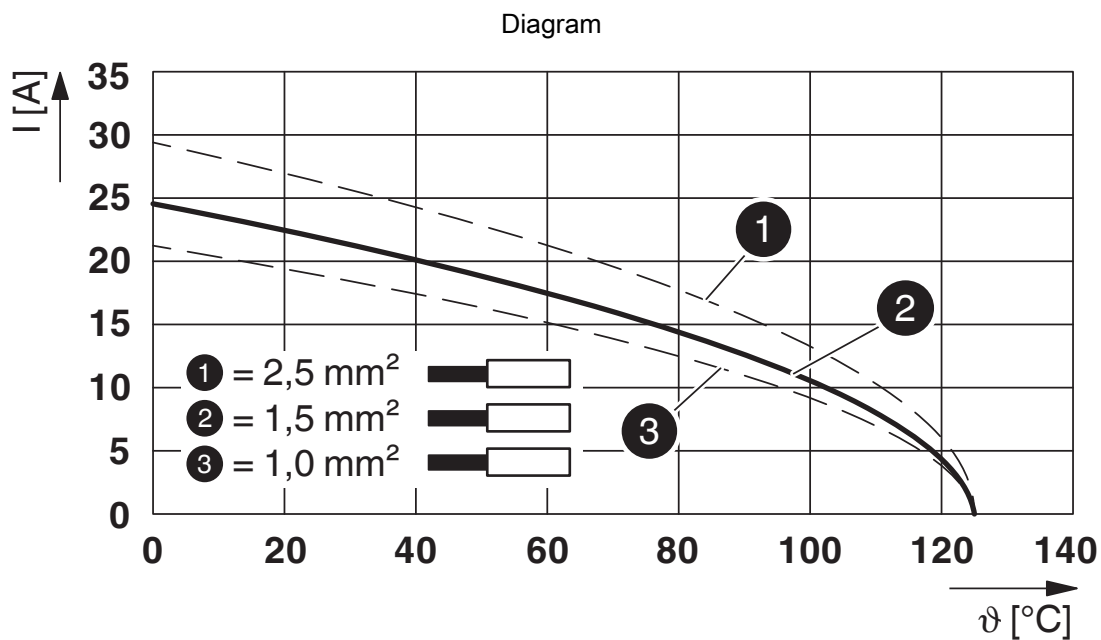
Schematic diagram



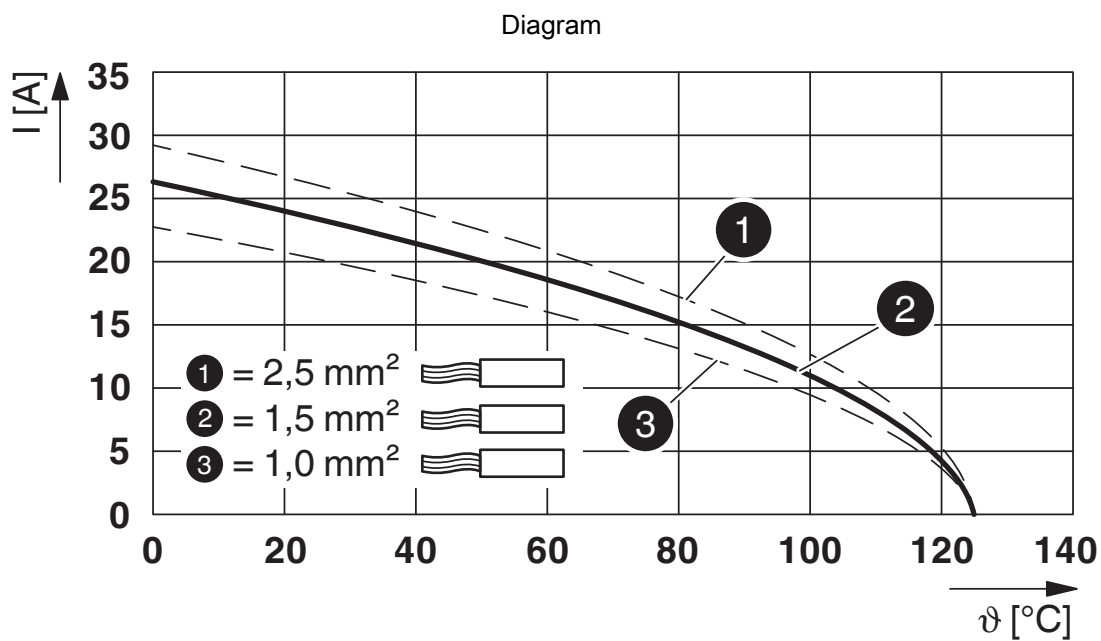
Connector pin assignment, connection side

Dimensional drawing





Derating diagram for solid conductors



Derating diagram for flexible conductors

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1605556>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_6233_01



cUL Recognized

Approval ID: E118976



UL Recognized

Approval ID: E118976

cULus Recognized

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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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UNSPSC

UNSPSC 21.0	39121500
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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%

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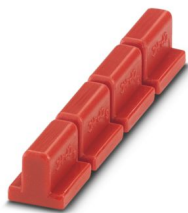


Accessories

CP-HC - Coding profile

1686478

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Coding profile, 4 coding profiles per strip, for insertion in coding keyways

HC-CB - Coding bolt

1772722

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Coding pin, prevents mismating of up to six connectors with an identical number of positions

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HC-CST - Coding element

1676857

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Coding peg for coding up to 16 connectors

HC-CBU - Coding element

1676860

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Coding socket for coding up to 16 connectors

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HC-B-PE-PT - Adapter

1054672

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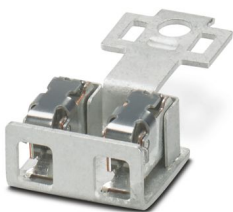


PE adapter with PT connection, for 1 PE connection, for HC-B/HC-BB/HC-DD/HC-D40/HC-D64/HC-HV/HC-BBB, and HC-K contact inserts

HC-B-2PE-PT - PE multiplier

1054675

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PE adapter with PT connection, for 2 PE connections, for HC-B/HC-BB/HC-DD/HC-D40/HC-D64/HC-HV/HC-BBB, and HC-K contact inserts

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HC-B-3PE - PE multiplier

1644326

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PE multiplier, for 3 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts



HC-B-PES - Screw

1604997

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PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64



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HC-B-ZG - Strain relief clamp

1685327

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Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

HC-B-ZS - Strain relief clamp

1685330

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Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

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HC-CIF-B06-HFWL-PL - DIN rail mounting frame

1424334

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DIN rail mounting frame, design: B6, for contact inserts, Top frame

HC-B 6-ANDOCK - Docking frame

1586112

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Docking frames for racks, for type B6 contact inserts, with 4 M5 flat headed screws, slide-in offset for x/y axis of ± 1.5 mm

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HC-CIF-B06-24-BFAFL-PL - DIN rail mounting frame

1424338

<https://www.phoenixcontact.com/in/products/1424338>



DIN rail mounting frame, design: B6 - B24, for contact inserts, Base frame

HC-B24/6-ADP-SS - Adapter plate

1034215

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Adapter plate, design: B24 to B6

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

1605611

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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

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