

HC-B 24-ESTQ-2,5-48 - Contact insert



1605666

<https://www.phoenixcontact.com/us/products/1605666>

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Contact insert, number of positions: 24+PE, size: B24, 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	1605666
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABC
GTIN	4017918940751
Weight per piece (including packing)	119.14 g
Weight per piece (excluding packing)	119.14 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	B24
	B48
Number of positions	24
Connection profile	24+PE
Contact numbering	1 - 24
Contact material type	rolled

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	35 mm
Length	111 mm
Drill hole distance, horizontal	104 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
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Conductor connection

Conductor cross section	0.34 mm ² ... 2.5 mm ² (Litz wire structure VDE 0295, Class 1 - 5/litz wire diameter ≥ 0.2 mm)
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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	≥ 500
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Material specifications

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)

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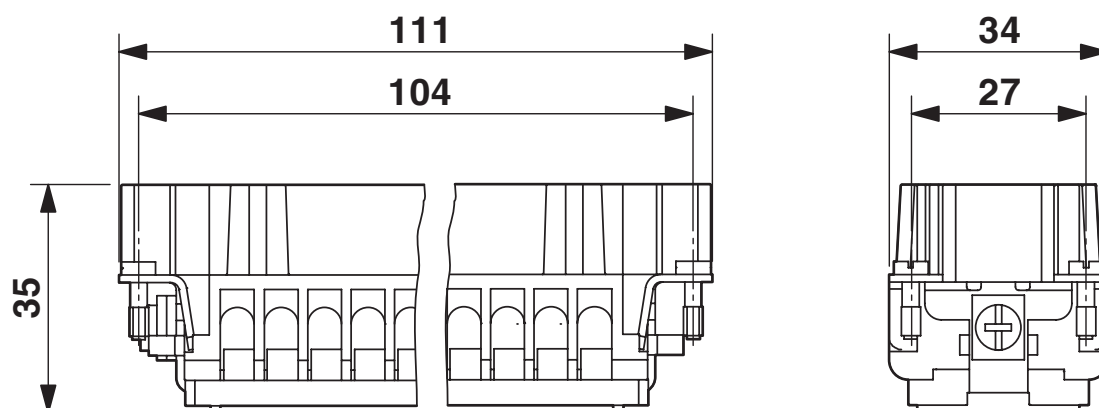
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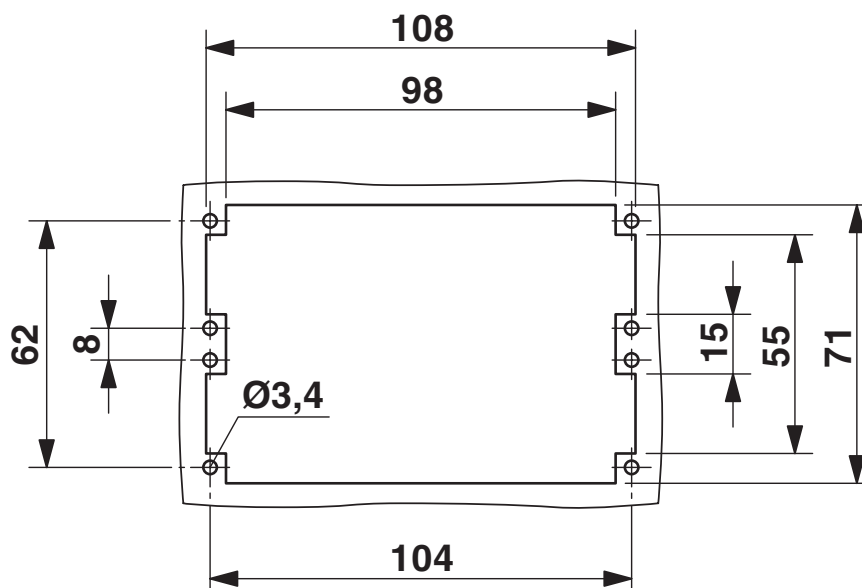
Drawings

Dimensional drawing



Male insert

Dimensional drawing



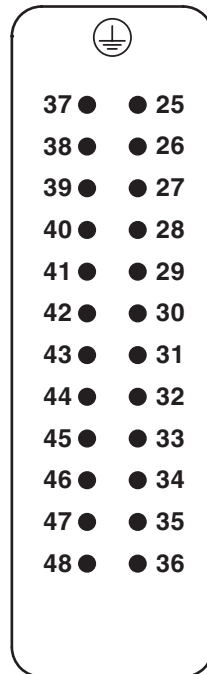
Mounting cutout when used without housing

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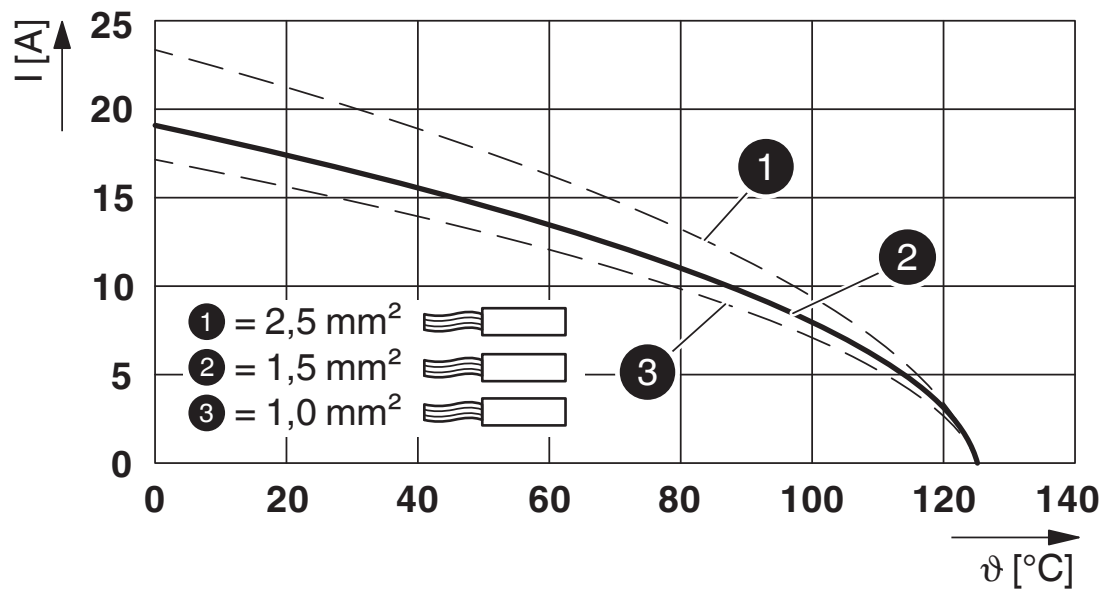
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Schematic diagram



Connector pin assignment, connection side

Diagram

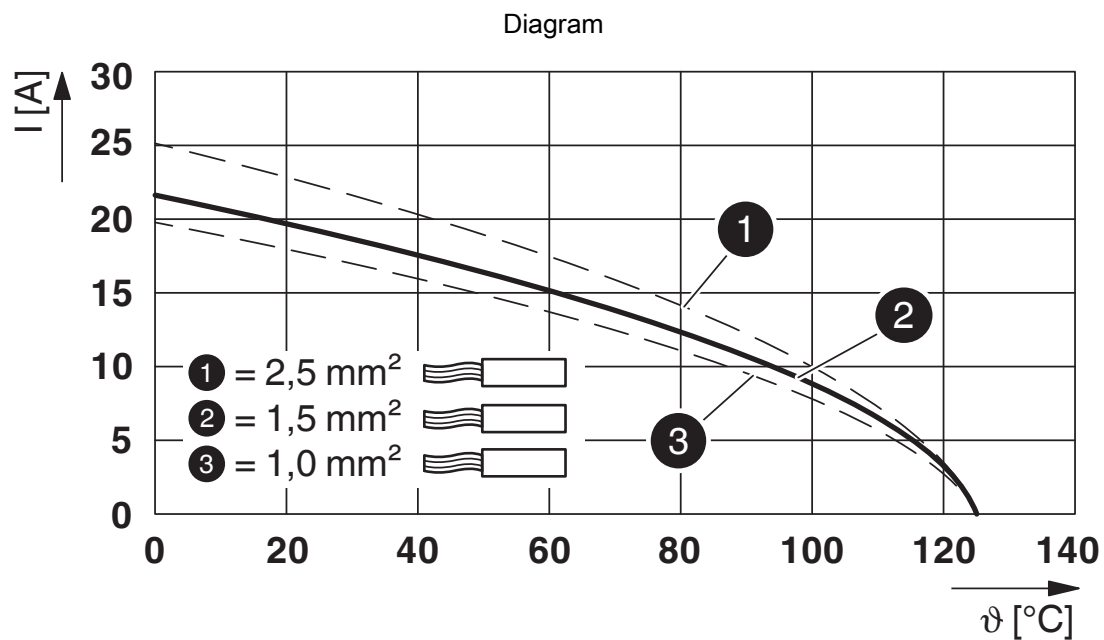


Derating diagram for flexible conductors

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Derating diagram for solid conductors

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1605666>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_6233_01



cUL Recognized

Approval ID: E118976



UL Recognized

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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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