

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



1605666
<https://www.phoenixcontact.com/no/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%.

Commercial data

Item number	1605666
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	31BBF
Product key	BF7ABC
Catalog page	Page 547 (C-2-2019)
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 instructions	To ensure correct use, installation in housing with IP54 protection or better is required
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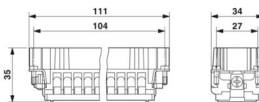
Product properties

Type	B24
	B48
Product type	Contact insert with a fixed no. of positions
Number of positions	24
Connection profile	24+PE
Contact numbering	1 - 24
Contact material type	rolled
Series	HC-B

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: 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

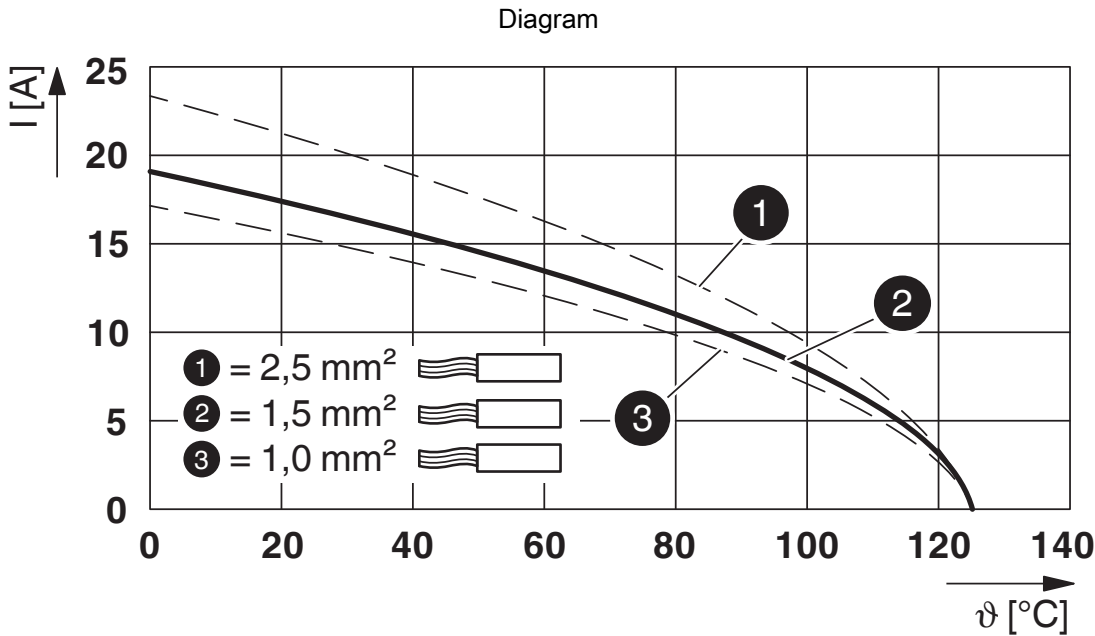
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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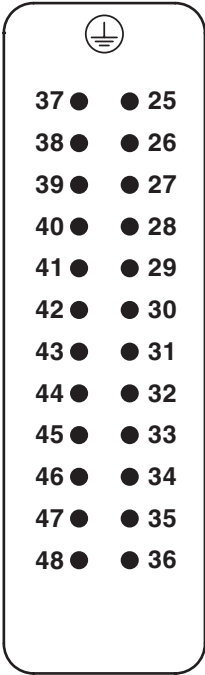
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Drawings



Derating diagram for flexible conductors

Schematic diagram



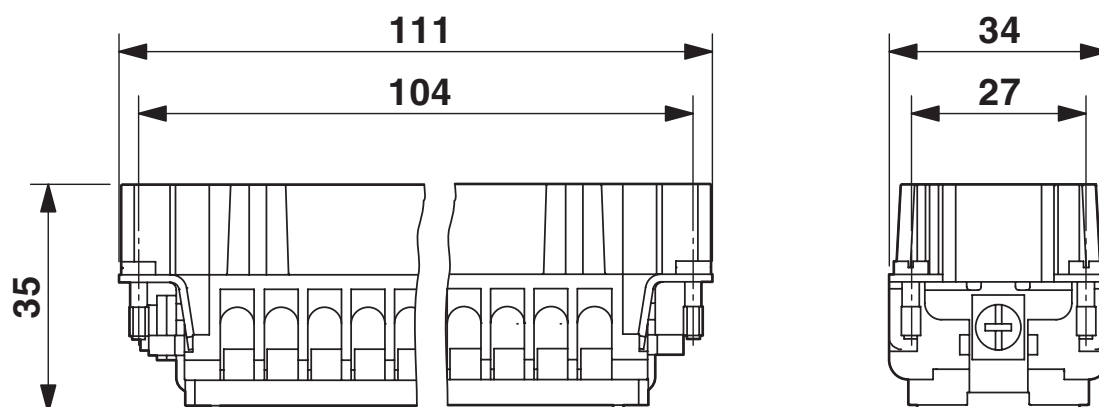
Connector pin assignment, connection side

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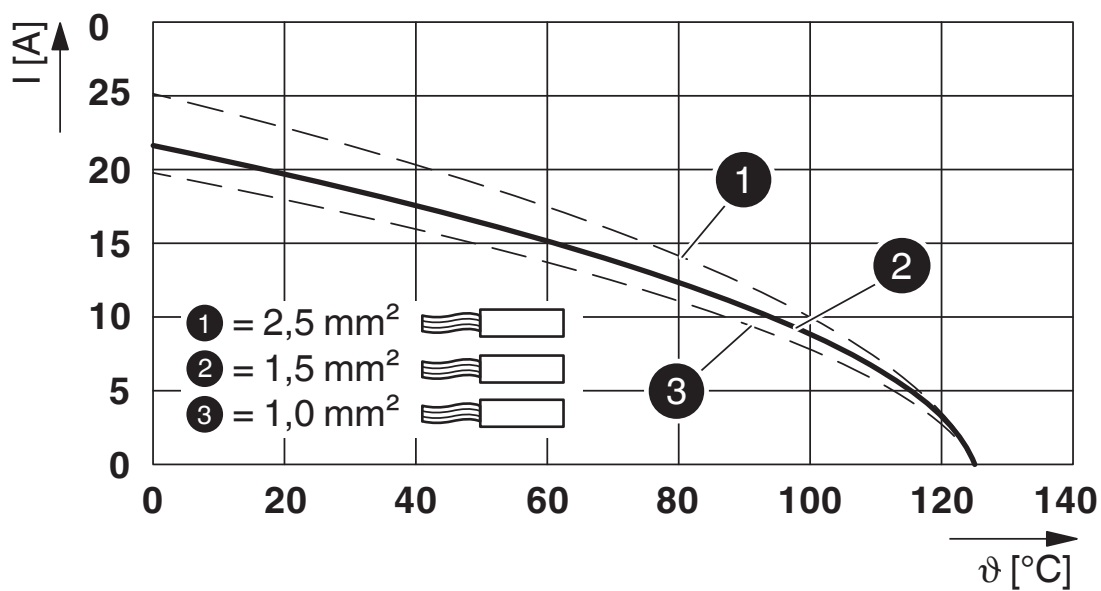
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Dimensional drawing



Male insert

Diagram

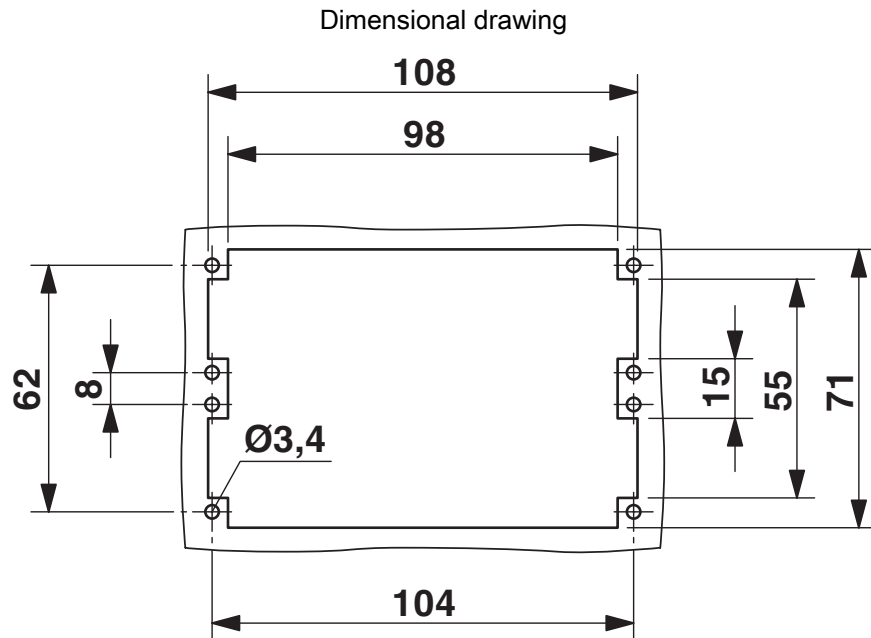


Derating diagram for solid conductors

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Mounting cutout when used without housing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1605666>

**DNV**
Approval ID: TAE000037S

**CSA**
Approval ID: 013631_6233_01

**cUL Recognized**
Approval ID: FILE E 118976

**UL Recognized**
Approval ID: FILE E 118976

**EAC**
Approval ID: RU C-DE.BL08.B.00511

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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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