

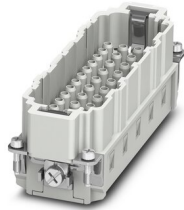
Contact insert - HC-BB46-I-CT-M

1584761

<https://www.phoenixcontact.com/us/products/1584761>



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HEAVYCON plug insert, series: BB46, 46-pos., crimp connection, with plastic coding profile, can be coded

Your advantages

- For fast coding with plastic profile (Order No. 1410916, type CP-HC-S)

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Commercial Data

Item number	1584761
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B10
Product Key	BF7ABD
Catalog Page	Page 555 (C-2-2019)
GTIN	4046356149280
Weight per Piece (including packing)	75 g
Weight per Piece (excluding packing)	75 g
Customs tariff number	85366990
Country of origin	CN

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Technical Data

Notes

General	For HC-B24 housing, crimp contacts CK 2,5-ED (crimp contacts not included in scope of supply)
General	Connectors may be operated only when there is no load/voltage.

Product properties

Type	B24 B48
Product type	Contact insert with a fixed no. of positions
Number of positions	46
Connection profile	46+PE
Number of connections per position	1
Contact type	turned
Series	HC-BB

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

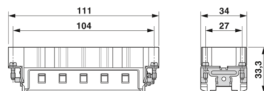
Connection technology

Connection technology	Crimp connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Connection cross section AWG	20 ... 12
Stripping length of the individual wire	7.5 mm

Dimensions

Dimensional drawing	
Width	34 mm
Height	33.2 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Minimum housing height	72 mm
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Contact diameter	2.5 mm
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Electrical properties

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

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Connector

Insertion/withdrawal cycles	≥ 500
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Cable / line

Cable structure

Stripping length of the individual wire	7.5 mm
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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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Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
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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)
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Contact insert - HC-BB46-I-CT-M

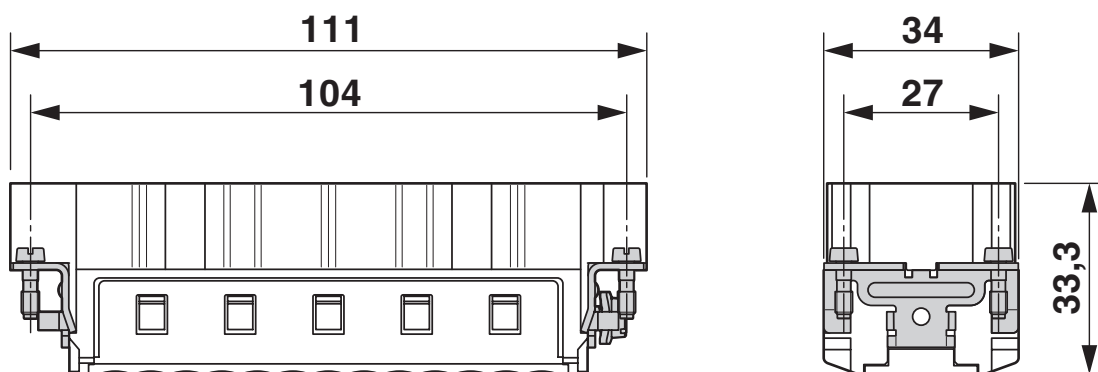
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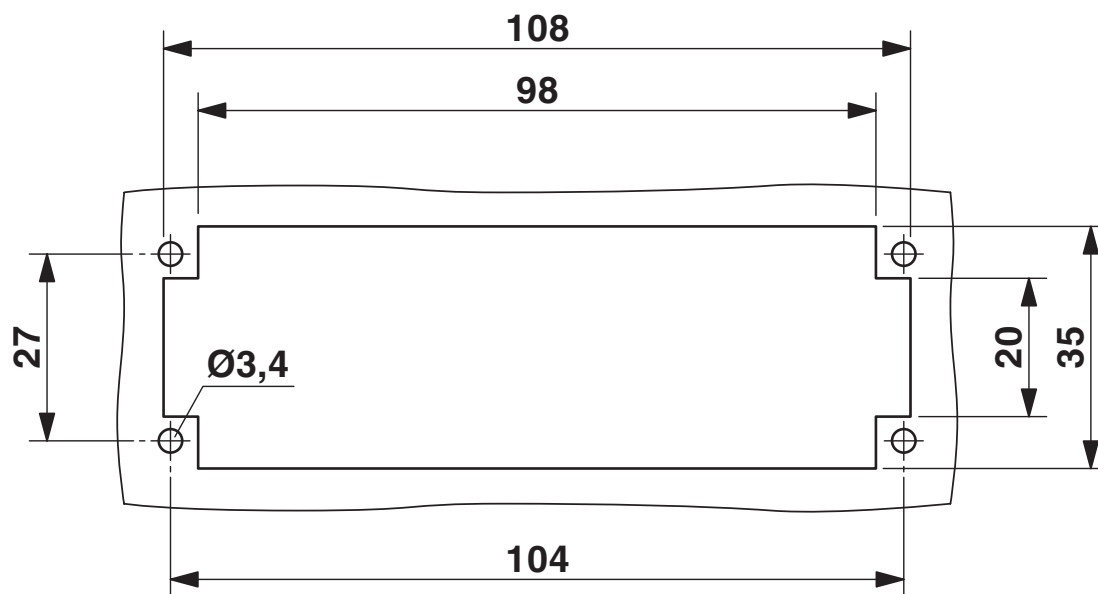
Drawings

Dimensional drawing



Male insert

Dimensional drawing



Mounting cutout when used without housing

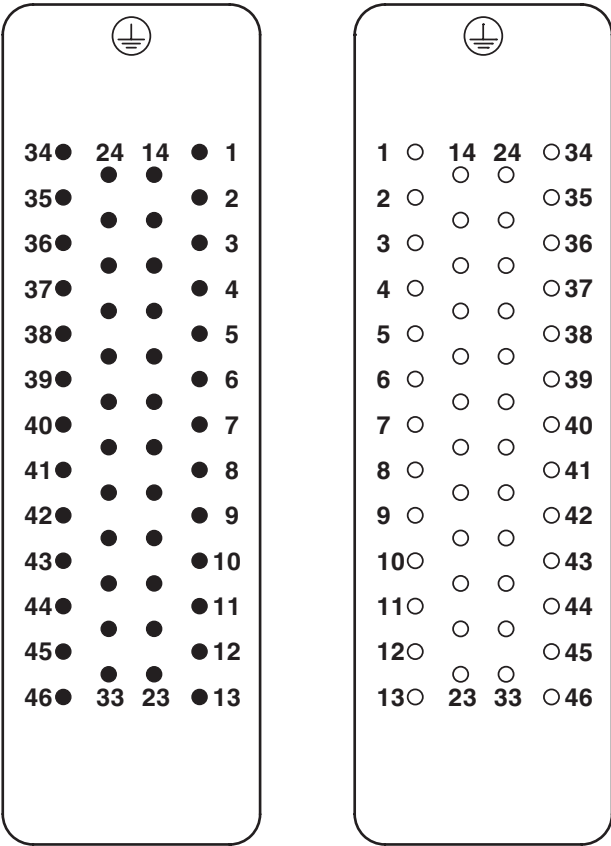
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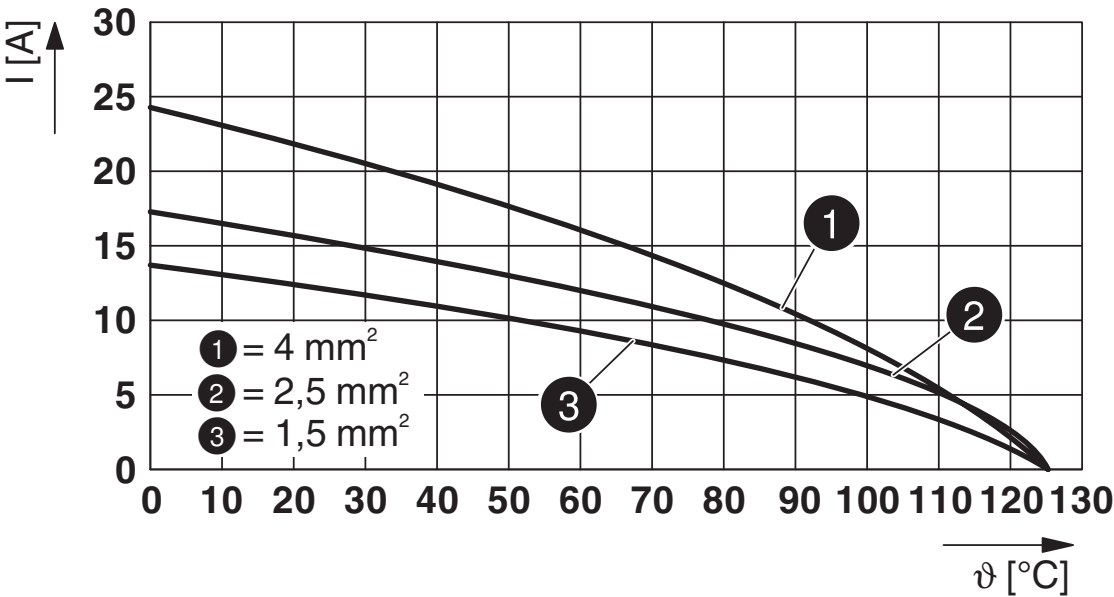
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Schematic diagram



Connection side: male left; female right

Diagram



Derating diagram

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Approvals

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_0_000

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	13.5 A	- 12	-



UL Recognized

Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	16 A	- 12	-



EAC

Approval ID: RU C-DE.AI30.B.01102



EAC

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

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Classifications

ECLASS

ECLASS-9.0	27440205
ECLASS-10.0.1	27440205
ECLASS-11.0	27440205

ETIM

ETIM 8.0	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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Accessories

Coding profile

Coding profile - CP-HC-S - 1410916

<https://www.phoenixcontact.com/us/products/1410916>

Coding profile, 4 elements per star, for insertion in a coding keyway, for contact inserts HC-BB... / HC-A10-I-UT... / HC-A16-I-UT...



Crimp contact

Crimp contact - CK2,5-ED-0,50ST AG - 1663572

<https://www.phoenixcontact.com/us/products/1663572>

Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20



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Coding bolt

Coding bolt - HC-CB - 1772722

<https://www.phoenixcontact.com/us/products/1772722>



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

Crimp contact

Crimp contact - CK2,5-ED-0,75ST AG - 1663585

<https://www.phoenixcontact.com/us/products/1663585>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

Contact insert - HC-BB46-I-CT-M

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Coding element

Coding element - HC-CST - 1676857

<https://www.phoenixcontact.com/us/products/1676857>

Coding peg for coding up to 16 connectors



Crimp contact

Crimp contact - CK2,5-ED-1,00ST AG - 1663598

<https://www.phoenixcontact.com/us/products/1663598>

Turned 2.5 crimp contact, individual male contact, core diameter 0.75 to 1.00 mm², silver-plated



Contact insert - HC-BB46-I-CT-M

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<https://www.phoenixcontact.com/us/products/1584761>



Coding element

Coding element - HC-CBU - 1676860

<https://www.phoenixcontact.com/us/products/1676860>

Coding socket for coding up to 16 connectors



Crimp contact

Crimp contact - CK2,5-ED-1,50ST AG - 1663608

<https://www.phoenixcontact.com/us/products/1663608>

Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16



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Adapter

Adapter - HC-B-PE-PT - 1054672

<https://www.phoenixcontact.com/us/products/1054672>



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

Crimp contact

Crimp contact - CK2,5-ED-2,50ST AG - 1663611

<https://www.phoenixcontact.com/us/products/1663611>



Turned 2.5 crimp contact, individual male contact, core diameter 2.5 mm², silver-plated

Contact insert - HC-BB46-I-CT-M

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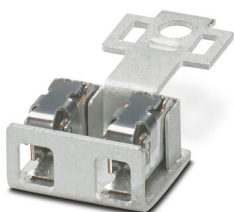
<https://www.phoenixcontact.com/us/products/1584761>



PE multiplier

PE multiplier - HC-B-2PE-PT - 1054675

<https://www.phoenixcontact.com/us/products/1054675>



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

Crimp contact

Crimp contact - CK2,5-ED-3,00ST AG - 1663624

<https://www.phoenixcontact.com/us/products/1663624>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: hard-silver plated, connection cross section: 3 mm² ... 3 mm², AWG 12

Contact insert - HC-BB46-I-CT-M



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<https://www.phoenixcontact.com/us/products/1584761>

PE multiplier

PE multiplier - HC-B-3PE - 1644326

<https://www.phoenixcontact.com/us/products/1644326>

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



Crimp contact

Crimp contact - CK2,5-ED-4,00ST AG - 1663637

<https://www.phoenixcontact.com/us/products/1663637>

Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12



Contact insert - HC-BB46-I-CT-M

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<https://www.phoenixcontact.com/us/products/1584761>



Screw

Screw - HC-B-PES - 1604997

<https://www.phoenixcontact.com/us/products/1604997>

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



Crimp contact

Crimp contact - CK2,5-ED-0,37ST AU - 1585663

<https://www.phoenixcontact.com/us/products/1585663>

Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 22 ... 26



Contact insert - HC-BB46-I-CT-M

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<https://www.phoenixcontact.com/us/products/1584761>



Strain relief clamp

Strain relief clamp - HC-B-ZG - 1685327

<https://www.phoenixcontact.com/us/products/1685327>



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

Crimp contact

Crimp contact - CK2,5-ED-0,50ST AU - 1674804

<https://www.phoenixcontact.com/us/products/1674804>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

Contact insert - HC-BB46-I-CT-M

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<https://www.phoenixcontact.com/us/products/1584761>



Strain relief clamp

Strain relief clamp - HC-B-ZS - 1685330

<https://www.phoenixcontact.com/us/products/1685330>



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

Crimp contact

Crimp contact - CK2,5-ED-1,00ST AU - 1674781

<https://www.phoenixcontact.com/us/products/1674781>



Turned 2.5 crimp contact, individual male contact, core diameter 0.75 to 1.0 mm², gold-plated

Contact insert - HC-BB46-I-CT-M

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Assembly tool

Assembly tool - UNIFOX MT-CK 1.6/2.5 - 1089092

<https://www.phoenixcontact.com/us/products/1089092>

Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections



Crimp contact

Crimp contact - CK2,5-ED-1,50ST AU - 1674778

<https://www.phoenixcontact.com/us/products/1674778>

Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16



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Contact removal tool

Contact removal tool - UNIFOX RT-CK 2.5 - 1072067

<https://www.phoenixcontact.com/us/products/1072067>

Contact removal tool, for turned CK 2,5... contacts



Crimp contact

Crimp contact - CK2,5-ED-2,50ST AU - 1674817

<https://www.phoenixcontact.com/us/products/1674817>

Turned 2.5 crimp contact, individual male contact, core diameter 2.5 mm², gold-plated



Contact insert - HC-BB46-I-CT-M

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DIN rail mounting frame

DIN rail mounting frame - HC-CIF-B24-HFWL-PL - 1424337

<https://www.phoenixcontact.com/us/products/1424337>



DIN rail mounting frame, type: B24, for contact inserts, Top frame

Crimp contact

Crimp contact - CK2,5-ED-4,00ST AU - 1674794

<https://www.phoenixcontact.com/us/products/1674794>



Turned 2.5 crimp contact, individual male contact, core diameter 4.00 mm², gold-plated

Contact insert - HC-BB46-I-CT-M

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Docking frames

Docking frames - HC-B 24-ANDOCK - 1586141

<https://www.phoenixcontact.com/us/products/1586141>



Docking frame for racks, for contact inserts of B24 type, with four M5 flat headed screws, rack balance x/y axis ± 1.5 mm

Crimping pliers with digital display

Crimping pliers with digital display - CRIMPFOX-TC MP-6 - 1202888

<https://www.phoenixcontact.com/us/products/1202888>



Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm^2 , digital display with 0.01 mm increments, pressure lock can be unlocked, positioning tool necessary as an accessory for contact positioning

Contact insert - HC-BB46-I-CT-M

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DIN rail mounting frame

DIN rail mounting frame - HC-CIF-B06-24-BFAFL-PL - 1424338

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



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

Crimping pliers

Crimping pliers - CRIMPFOX-1,6/2,5-ED-4,0 - 1687419

<https://www.phoenixcontact.com/us/products/1687419>



Crimping pliers, for turned contacts, CK 1.6 ED... and CK 2.5 ED...

Contact insert - HC-BB46-I-CT-M

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Crimping pliers

Crimping pliers - CRIMPFOX-TC 4 - 1212113

<https://www.phoenixcontact.com/us/products/1212113>

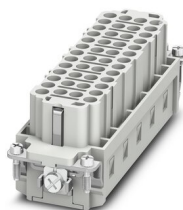


Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

Contact insert

Contact insert - HC-BB46-I-CT-F - 1584758

<https://www.phoenixcontact.com/us/products/1584758>



HEAVYCON socket insert, series: BB46, 46-pos., crimp connection, with plastic coding profile, can be coded

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Phoenix Contact USA

586 Fulling Mill Road

Middletown, PA 17057, United States

(+717) 944-1300

info@phoenixcon.com