

https://www.phoenixcontact.com/us/products/1407729



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HEAVYCON socket insert, B10 series, 10 + PE-pos., push-in connection



Your advantages

- · Easy installation without tools, even when mounted, with push-in connection technology
- · Shortest installation time compared to other connection technologies
- · Quick and effortless wiring, in particular when space is tight
- · Automatic cabling with robots possible
- · Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- · Cost-effective and fast coding with plastic profiles
- Test connection for 2 mm test plug



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Commercial Data

Item number	1407729
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B10
Product Key	BF7ABC
Catalog Page	Page 543 (C-2-2019)
GTIN	4046356777544
Weight per Piece (including packing)	63.3 g
Weight per Piece (excluding packing)	63 g
Customs tariff number	85366990
Country of origin	CN



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Technical Data

Notes

General	only use flexible conductors with ferrules
General	Connectors may be operated only when there is no load/voltage.

Product properties

Туре	B10
Product type	Contact insert with a fixed no. of positions
Number of positions	10
Connection profile	10+PE
Application	Power
Number of connections per position	1
Contact type	rolled
Series	HC-B

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

Connection technology

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

Conductor connection

Connection cross section AWG	26 14
Stripping length	8 mm 10 mm

Dimensions

Dimensional drawing	63.4
Width	34 mm
Height	37 mm
Length	64 mm
Drill hole distance, horizontal	57 mm
Drill hole distance, vertical	27 mm
Mechanical characteristics	
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 (power contacts)
SCCR	5 kA (UL 2237)

Material specifications

Flammability rating according to UL 94 Contact material	V0 Copper alloy
Contact material	соррег апоу
Contact surface material	Ag/Sn (tarnish protection)
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/withdrawar cycles 2 300	Insertion/withdrawal cycles	≥ 500	
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Mounting

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

Ambient conditions

Ambient temperature (eneration)	-40 °C 125 °C (including heating up of contacts)
Ambient temperature (operation)	-40 C 125 C (including neating up of contacts)

Standards and regulations

Testing

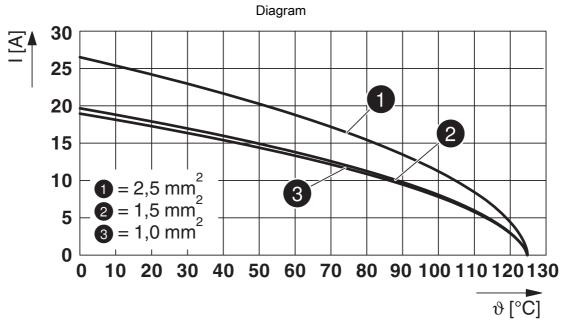
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23,
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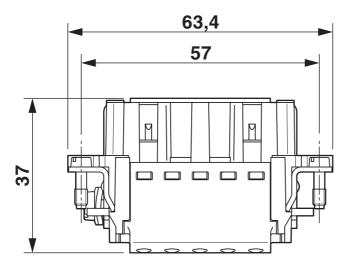


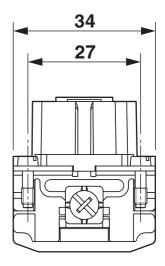
Drawings



Derating diagram

Dimensional drawing



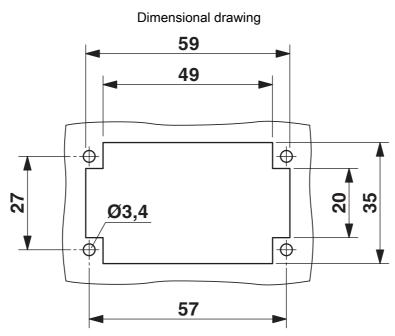


Dimensional drawing

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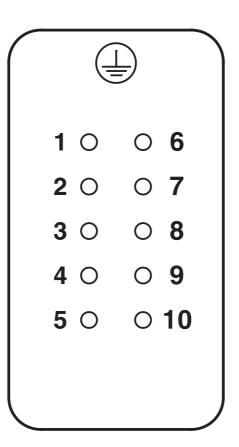
Mounting cutout when used without housing



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Schematic diagram



Connector pin assignment, connection side



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Approvals

DNV

Approval ID: TAE000037S

•	CSA Approval ID: 13631				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	10 A	- 14	-

<i>9</i> 1	UL Recognized Approval ID: FILE E 1189	976			
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	13 A	- 14	-

EAC	EAC
LIIL	Approval ID: RU C-DE.Al30.B.01102

c FLL us	cULus Recognized Approval ID: E468743				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		600 V	13 A	- 14	-

EHC	EAC
LIIL	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	

UNSPSC



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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 - 1686478 https://www.phoenixcontact.com/us/products/1686478



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

Crimping pliers

Crimping pliers - CRIMPFOX CENTRUS 6S - 1213144 https://www.phoenixcontact.com/us/products/1213144



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm^2 ... 6 mm^2 , also for TWIN ferrules up to 2 x 4 mm^2 , automatic cross section adjustment, lateral insertion, equipped with fall protection



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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

Crimping pliers

Crimping pliers - CRIMPFOX CENTRUS 10S - 1213154 https://www.phoenixcontact.com/us/products/1213154



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm^2 ... 10 mm^2 , also for TWIN ferrules up to 2 x 4 mm^2 , automatic cross section adjustment, lateral insertion, equipped with fall protection



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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

Crimping pliers

Crimping pliers - CRIMPFOX 6 - 1212034 https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm^2 ... 6.0 mm^2 , lateral entry, trapezoidal crimp

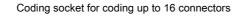


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Coding element

Coding element - HC-CBU - 1676860 https://www.phoenixcontact.com/us/products/1676860





Crimping pliers

Crimping pliers - CRIMPFOX 10S - 1212045 https://www.phoenixcontact.com/us/products/1212045



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 10 mm^2 , unlockable pressure lock, lateral entry



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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

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 0,5 - 1212463 https://www.phoenixcontact.com/us/products/1212463



Mobile handheld device, battery-powered, for processing on-tape ferrules 0. 5 mm² with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.5 mm², packed in a robust case.



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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

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 0,75 - 1212464 https://www.phoenixcontact.com/us/products/1212464



Mobile handheld device, battery-powered, for processing on-tape ferrules 0. 75 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.75 mm^2 , packed in a robust case.



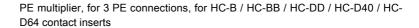
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PE multiplier

PE multiplier - HC-B-3PE - 1644326

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





Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 1,0 - 1212465 https://www.phoenixcontact.com/us/products/1212465



Mobile handheld device, battery-powered, for processing on-tape ferrules 1. 0 mm² with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.0 mm², packed in a robust case.



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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

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 1,5 - 1212466 https://www.phoenixcontact.com/us/products/1212466



Mobile handheld device, battery-powered, for processing on-tape ferrules 1. 5 mm² with functional end, suitable for PVC insulated conductors (H07V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.5 mm², packed in a robust case.



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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

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



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DIN rail mounting frame

DIN rail mounting frame - HC-CIF-B10-HFWL-PL - 1424335 https://www.phoenixcontact.com/us/products/1424335

DIN rail mounting frame, type: B10, for contact inserts, Top frame



Docking frames

Docking frames - HC-B 10-ANDOCK - 1586125 https://www.phoenixcontact.com/us/products/1586125



Docking frame for racks, for contact inserts of B10 type, with four M5 flat headed screws, rack balance x/y axis \pm 1.5 mm



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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



Adapter plate

Adapter plate - HC-B24/10-ADP-SS - 1034213 https://www.phoenixcontact.com/us/products/1034213

Adapter plate, type: B24 to B10





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Contact insert

Contact insert - HC-B10-I-PT-M - 1407730 https://www.phoenixcontact.com/us/products/1407730

HEAVYCON pin insert, B10 series, 10 + PE-pos., push-in connection



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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com