HC-EVO-B10PT-BWSC-HL-M25-PLRBK - Connector set

1408791

https://www.phoenixcontact.com/us/products/1408791

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EVO connector set, B10 series, plastic housing, consisting of sleeve housing, panel mounting base, push-in contact inserts: 1407729, 1407730, 1407633, 1407626, 1407670

Your advantages

- Lower costs than metal version
- Labeling option using 9 x 20 mm marking label
- Low weight
- Lower risk of condensation

Commercial data

Item number	1408791
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF63
Product key	BF7AFX
Catalog page	Page 646 (C-2-2019)
GTIN	4046356834094
Weight per piece (including packing)	381.45 g
Weight per piece (excluding packing)	381.45 g
Customs tariff number	85366990
Country of origin	CN

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Set consists of

HC-B10-I-PT-F - Contact insert

1407729

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Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

HC-B10-I-PT-M - Contact insert

1407730

https://www.phoenixcontact.com/us/products/1407730

Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

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HC-EVO-B10-BWSC-PLRBK - Housing

1407633

https://www.phoenixcontact.com/us/products/1407633

Panel mounting base B10, with single locking latch, material: PA, protective cover material: PC, height: 30.5 mm, cable gland: none, protective cover: yes, Standard, with flat gasket

HC-EVO-B10-HLFS-PLBK - Housing

1407626

https://www.phoenixcontact.com/us/products/1407626

HEAVYCON EVO sleeve housing, plastic, with bayonet flange for EVO screw connection, B10, for single locking latch, height: 60.5 mm, without EVO screw connection

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HC-B-G-M25-PLRBK - Cable gland

1407670

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EVO plastic cable gland with bayonet locking, for housing series B, size M25, cable diameter: 9 mm ... 17 mm

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Technical data

Product properties

Product type	Connector set
Housing type	Complete housing
Series	HC-B
Type	B10
Number of positions	10
Connection profile	10+PE
Contact numbering	1 - 10
No. of cable outlets	1
Type of the screw connection	1x M25
Protective cover	yes
Cable outlet	straight
Pg screw connection	none

Data management status

Article revision	05

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

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

Connection data

|	
Connection method	Push-in connection
Connection technology	Push-in connection
Connection in acc. with standard	IEC / EN
Conductor cross section	0.14 mm² ... 2.5 mm² (with ferrule)
	0.14 mm² ... 2.5 mm² (with ferrule)
Connection cross section AWG	26 ... 14 (with ferrule)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length	8 mm ... 10 mm

Dimensions

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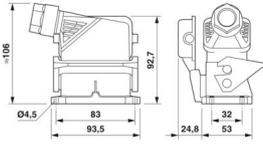
Dimensional drawing	
Width	53 mm
Height	106 mm
Length	93.5 mm
Drill hole distance, horizontal	83 mm
Drill hole distance, vertical	32 mm

Installation dimensions	
Width of the assembly cutout	35 mm
Length of the assembly cutout	65 mm

Material specifications

Material Protective cover	PA
Flammability rating according to UL 94	V0
Seal material Profile gasket	NBR
Seal material Flat gasket	NBR
Housing material	PA
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Locking latch material	PA

Cable/line

External cable diameter	9 mm ... 17 mm

Mechanical properties

Mechanical data	
Type of the screw connection	1x M25
Locking type	Latch
Insertion/withdrawal cycles	≥ 500

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP66
Enclosure rating (NEMA)	12 (UL 50e)
Impact strength	IK09
Ambient temperature (operation)	-40 °C ... 100 °C

Mounting

Assembly note	Coding also using the CP-HC (1686478) coding profiles. HC-B6..

	/ HC-B10..for two coding profiles. HC-B16../ HC-B24..for four coding profiles.
	Connectors may only be operated when there is no load/the power is switched off. Can be used for solid wires and stranded wires with ferrule.

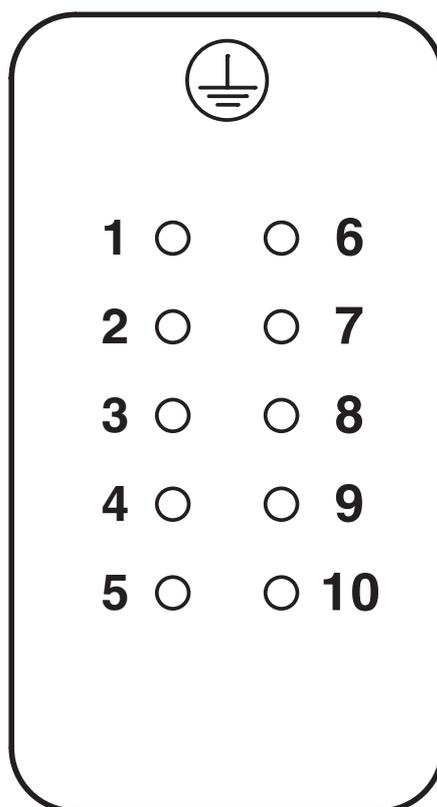# HC-EVO-B10PT-BWSC-HL-M25-PLRBK - Connector set

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Drawings

Schematic diagram

Pin assignment, connection side, socket

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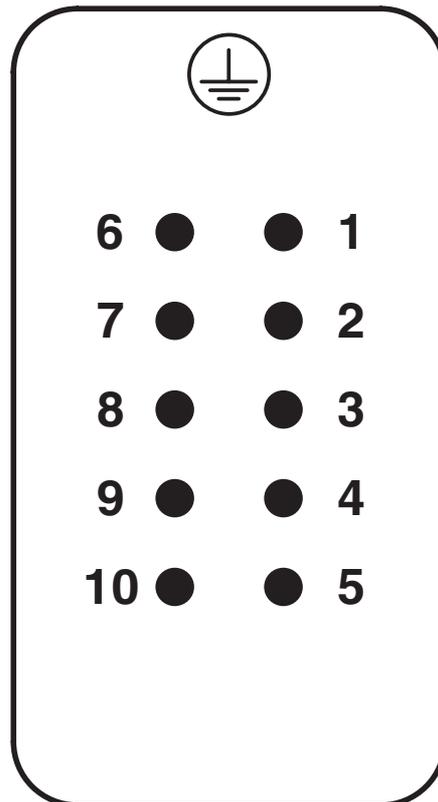
Dimensional drawing

Dimensional drawing

HC-EVO-B10PT-BWSC-HL-M25-PLRBK - Connector set

Schematic diagram

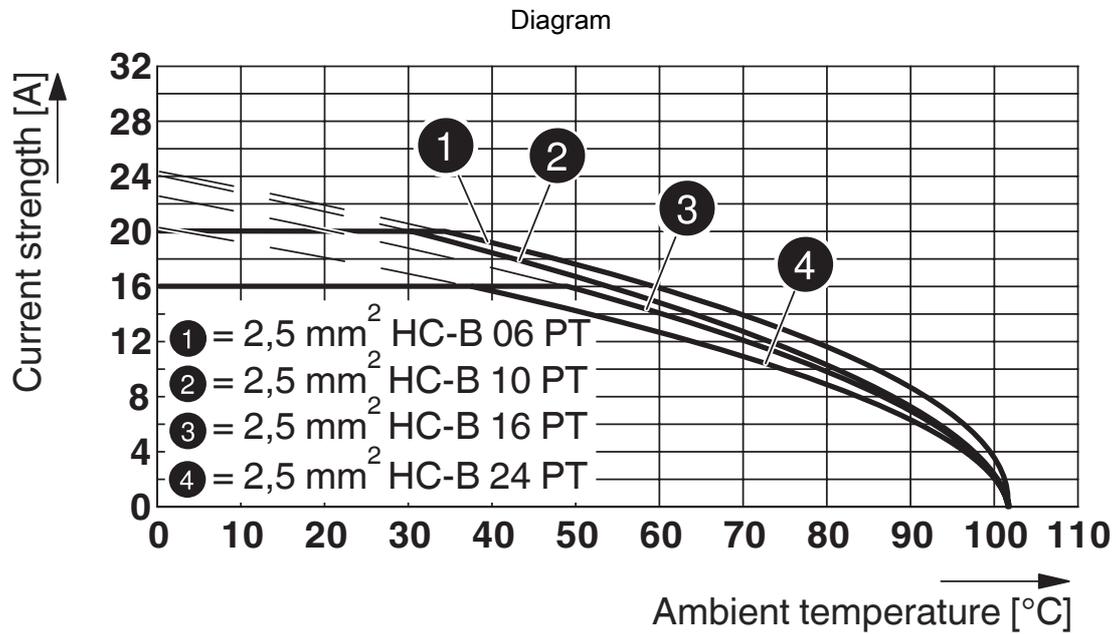Pin assignment, connection side, pin

Diagram

Current strength [A] (y-axis: 0, 4, 8, 12, 16, 20, 24, 28, 32)

Ambient temperature [°C] (x-axis: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110)

1 = 2,5 mm^2 HC-B 06 PT
2 = 2,5 mm^2 HC-B 10 PT
3 = 2,5 mm^2 HC-B 16 PT
4 = 2,5 mm^2 HC-B 24 PT

Derating diagram

Dimensional drawing

83

65

32

35

Ø4,5
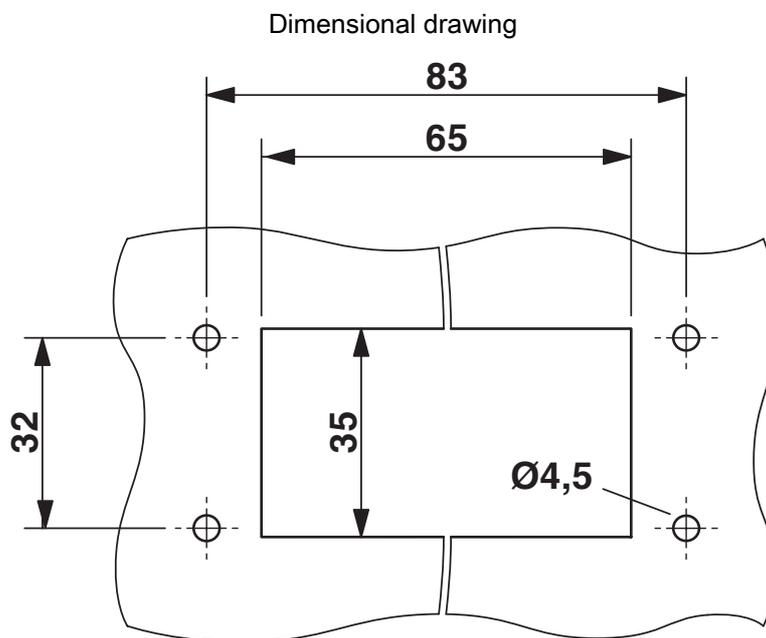
Mounting cutout

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Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1408791

DNV
Approval ID: TAE000037S

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

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Classifications

ECLASS

ECLASS-11.0	27440101
ECLASS-12.0	27440113
ECLASS-13.0	27440113

ETIM

ETIM 9.0	EC002636

UNSPSC

UNSPSC 21.0	39121400

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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

HC-B10-SL-PLBK - Housing brackets

1407698

https://www.phoenixcontact.com/us/products/1407698

Replacement single locking latch for HEAVYCON EVO housing type B10, PA

US-EMP (20X9) - Snap-in markers

0829439

https://www.phoenixcontact.com/us/products/0829439

Snap-in markers, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 20 x 9 mm, Number of individual labels: 70