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

1407711

https://www.phoenixcontact.com/pc/products/1407711

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EVO connector set consisting of: 1407729, 1407730, 1407634, 1407628, 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	1407711
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF7AFX
GTIN	4046356777766
Weight per piece (including packing)	353 g
Weight per piece (excluding packing)	353 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/pc/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-BWD-PLRBK - Housing

1407634

https://www.phoenixcontact.com/pc/products/1407634

HEAVYCON EVO panel mounting base, plastic, B10, with double locking latch, height: 30.5 mm, with flat gasket

HC-EVO-B10-HLFD-PLBK - Housing

1407628

https://www.phoenixcontact.com/pc/products/1407628

HEAVYCON EVO sleeve housing, plastic, with bayonet flange for EVO screw connection, B10, for double 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

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	no
Cable outlet	straight
Pg screw connection	none

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
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	0.5 Nm ... 1.7 Nm (Fixing screws for panel mounting base)

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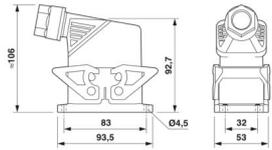
Dimensional drawing	
Width	53 mm
Height	106 mm
Length	93.5 mm
Drill hole distance, horizontal	83 mm

Drill hole distance, vertical	32 mm

Installation dimensions

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

Material specifications

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	PC
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	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.

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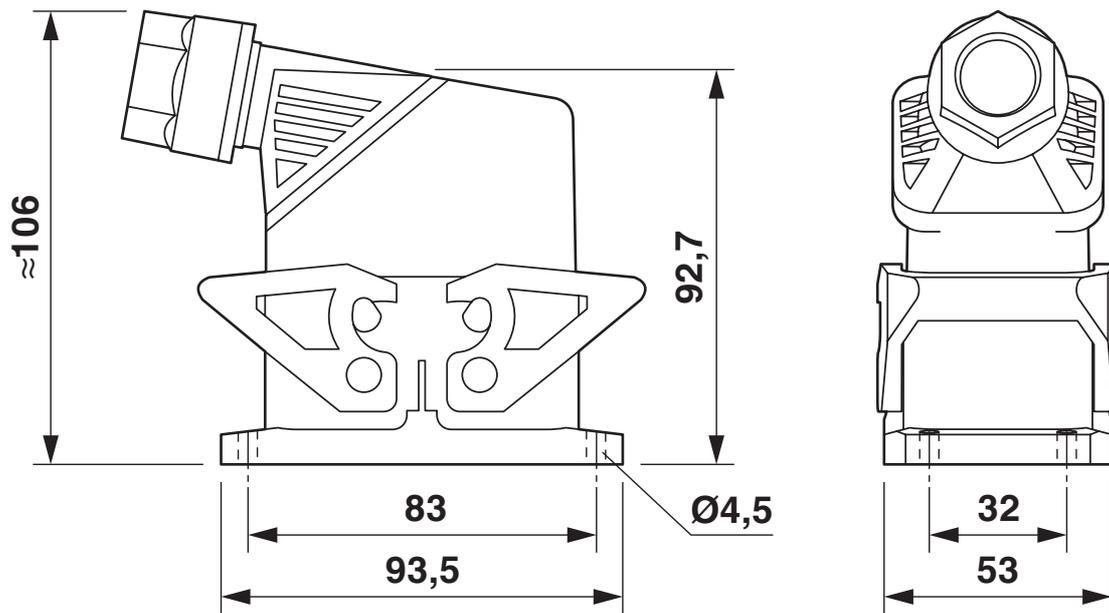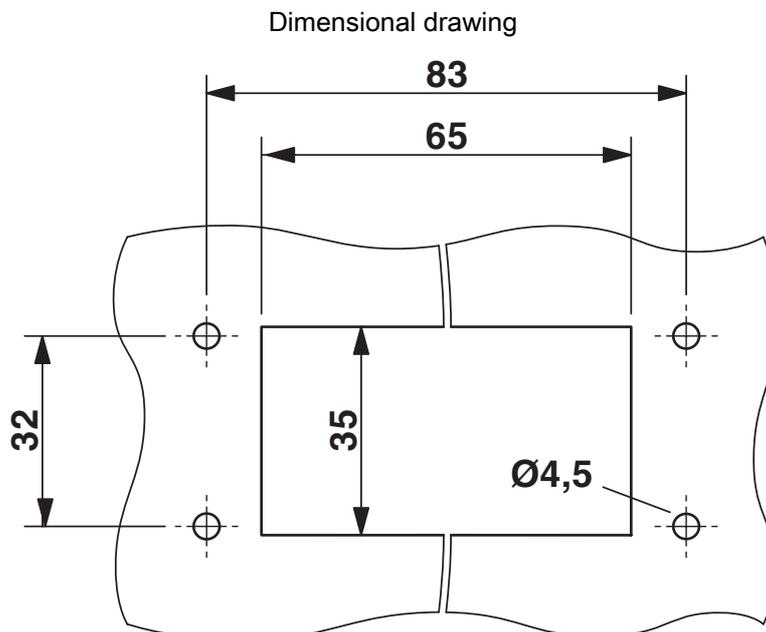https://www.phoenixcontact.com/pc/products/1407711

Drawings

Dimensional drawing

Dimensional drawing

Dimensional drawing

Mounting cutout

Schematic diagram

6 ● ● 1
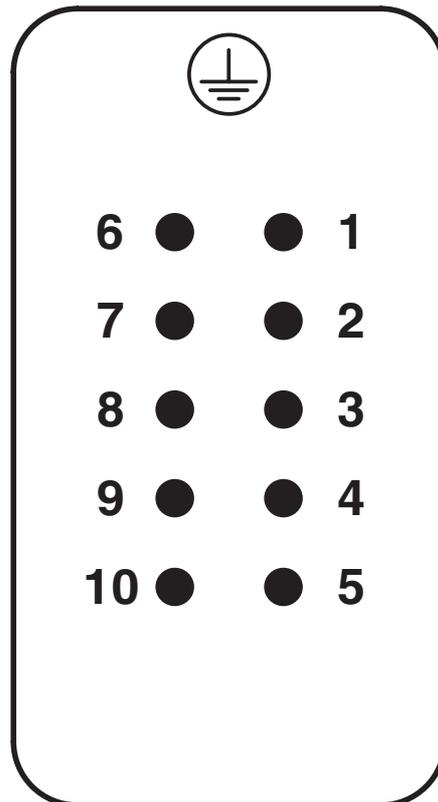7 ● ● 2
8 ● ● 3
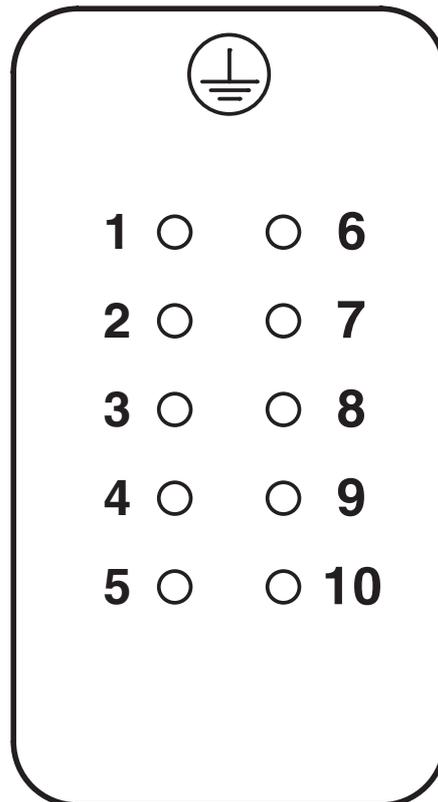9 ● ● 4
10 ● ● 5

Pin assignment, connection side, pin

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

Schematic diagram

Pin assignment, connection side, socket

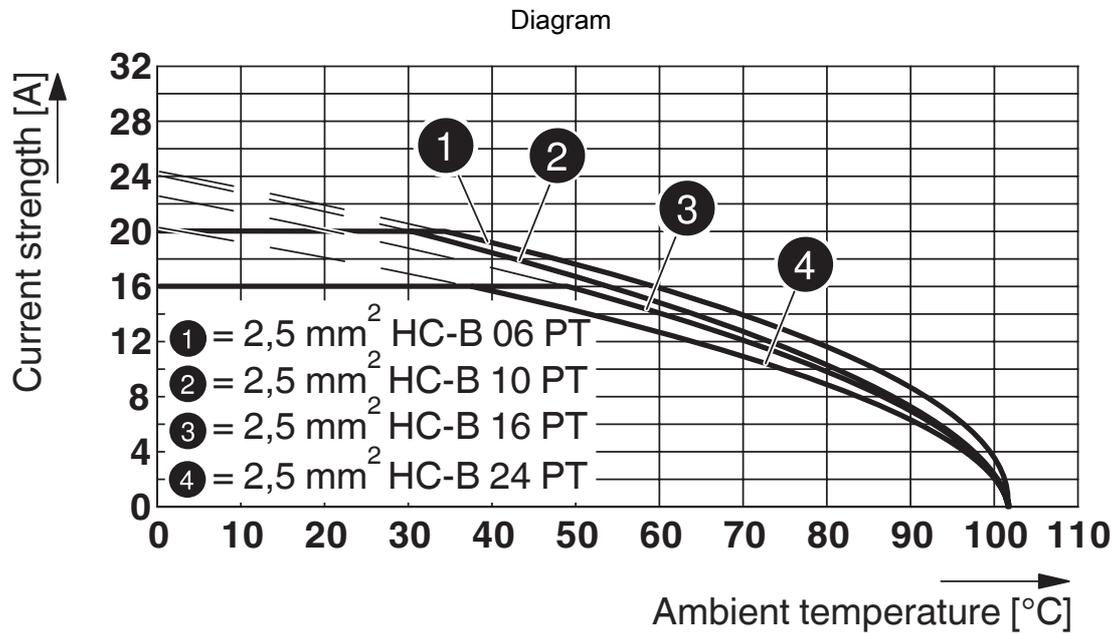# HC-EVO-B10PT-BWD-HL-M25-PLRBK - Connector set

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Diagram

Derating diagram

Approvals

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DNV
Approval ID: TAE000037S

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

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Classifications

ECLASS

ECLASS-13.0	27440113
ECLASS-15.0	27440113

ETIM

ETIM 10.0	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-B10-24-DL-PLBK - Housing brackets

1407696

https://www.phoenixcontact.com/pc/products/1407696

Replacement double locking latch for HEAVYCON EVO housing, HC-B10/HC-B16/HC-B24, PA

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

0829439

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

Snap-in markers, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: latching, Number of individual labels: 70, text field height: 9 mm, text field width: 20 mm