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

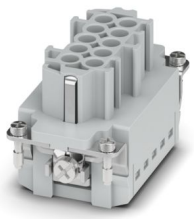
Item number	1408791
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF63
Product key	AF7AFX
GTIN	4046356834094
Weight per piece (including packing)	381.45 g
Weight per piece (excluding packing)	381.45 g
Customs tariff number	85366990
Country of origin	CN

Set consists of

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

1407729

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

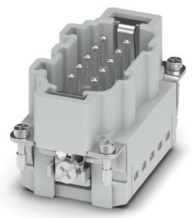


Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power

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

HC-EVO-B10-BWSC-PLRBK - Housing

1407633

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



Panel mounting base B10, with single locking latch, material: PA 6.6-FR, 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

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

1407670

https://www.phoenixcontact.com/us/products/1407670



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

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

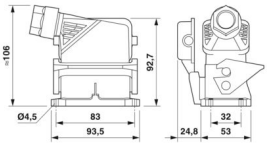
Electrical properties

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

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	NBR (profile gasket)
	NBR (Flat gasket)
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

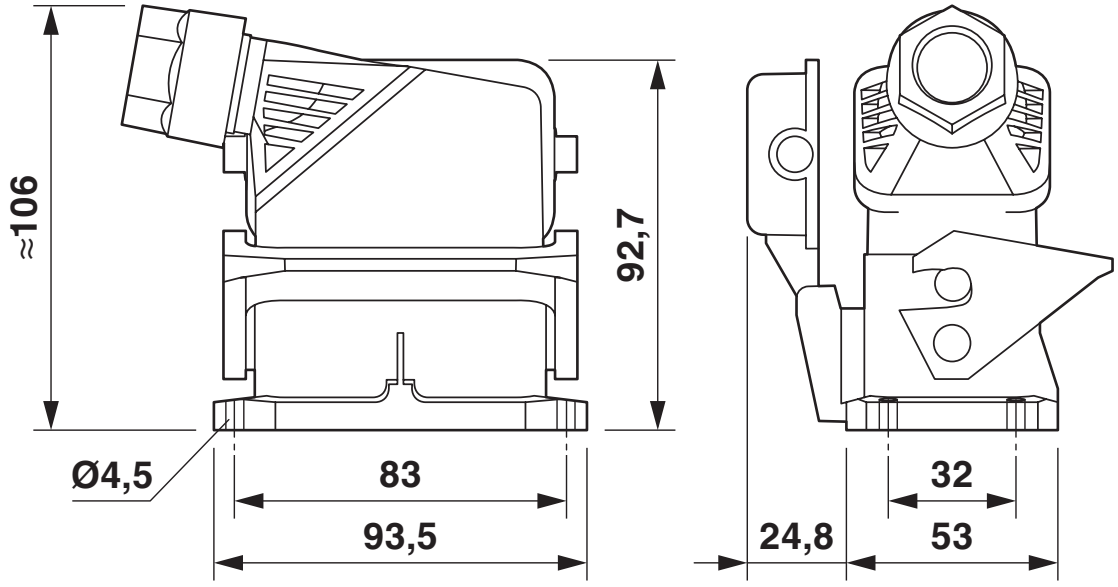
Mounting

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.

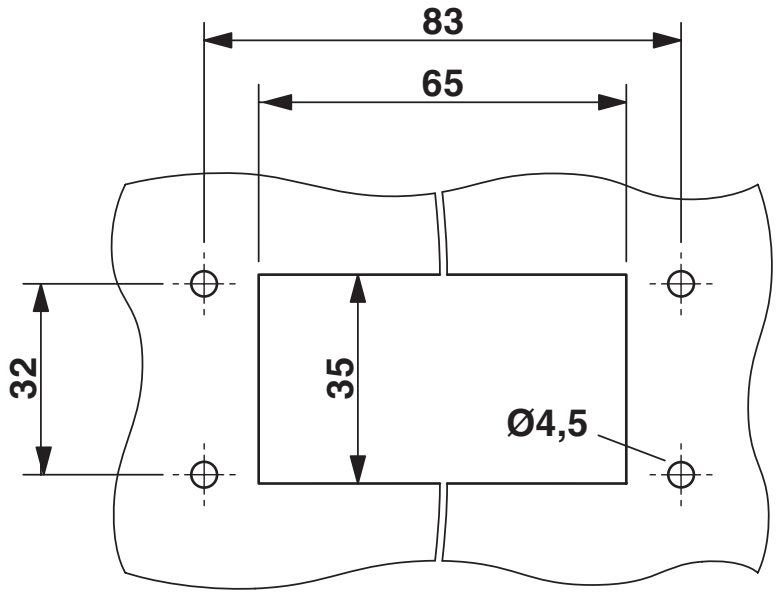
Drawings

Dimensional drawing



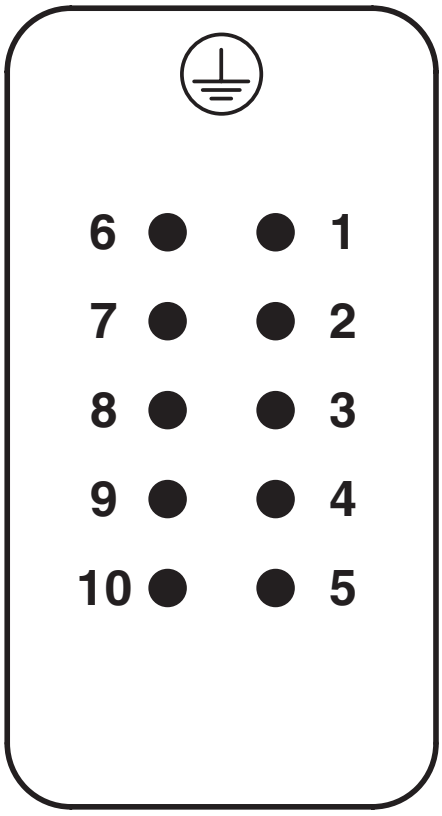
Dimensional drawing

Dimensional drawing



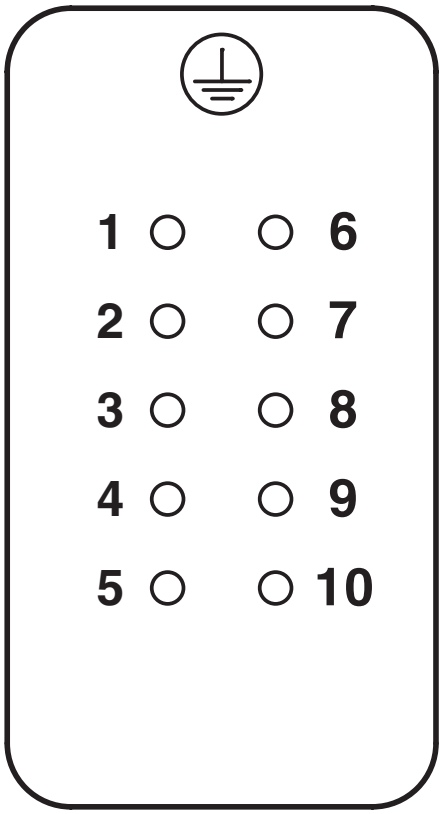
Mounting cutout

Schematic diagram



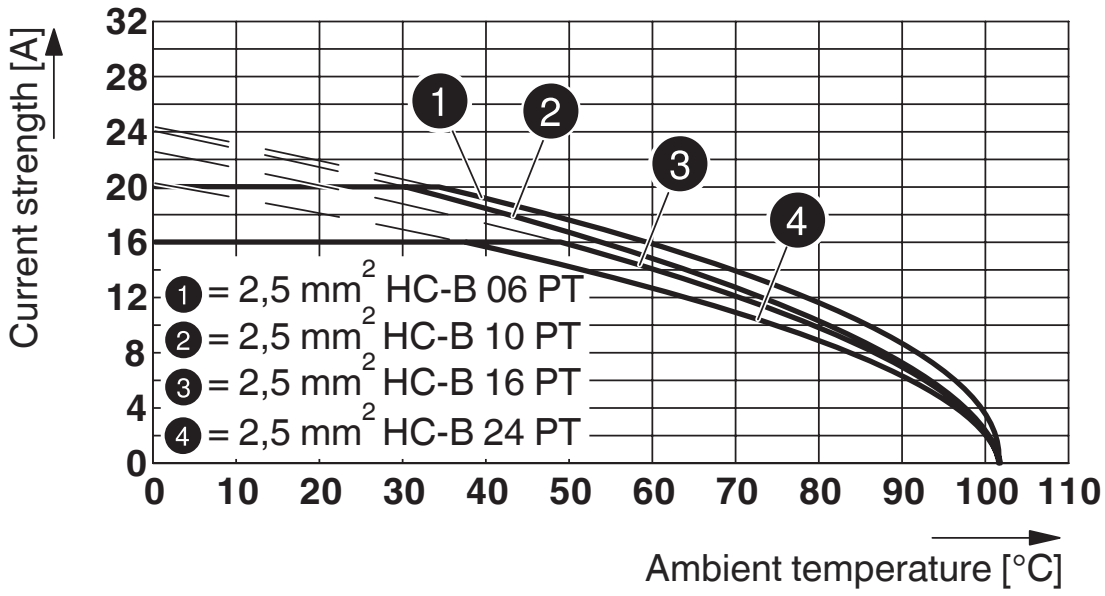
Pin assignment, connection side, pin

Schematic diagram



Pin assignment, connection side, socket

Diagram



Derating diagram

Approvals

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

DNV
Approval ID: TAE000037S

Classifications

ECLASS

ECLASS-13.0	27440113
ECLASS-15.0	27440113

ETIM

ETIM 10.0	EC002636

UNSPSC

UNSPSC 21.0	39121400

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