

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



EVO connector set, B6 series, plastic housing, consisting of: 1407727, 1407728, 1407622, 1407619, 1407669, plastic housing

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 | 1407710 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF63 |
| Product key | AF7AFX |
| GTIN | 4046356777759 |
| Weight per piece (including packing) | 315.8 g |
| Weight per piece (excluding packing) | 315.1 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

Set consists of

HC-B06-I-PT-F - Contact insert

1407727

<https://www.phoenixcontact.com/us/products/1407727>

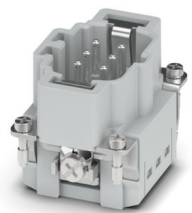


Contact insert, number of positions: 6+PE, size: B6, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm² ... 2.5 mm², application: Power

HC-B06-I-PT-M - Contact insert

1407728

<https://www.phoenixcontact.com/us/products/1407728>



Contact insert, number of positions: 6+PE, size: B6, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, 0.14 mm² ... 2.5 mm², application: Power

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

HC-EVO-B06-BWSC-PLRBK - Housing

1407622

<https://www.phoenixcontact.com/us/products/1407622>



Panel mounting base B6, 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-B06-HLFS-PLBK - Housing

1407619

<https://www.phoenixcontact.com/us/products/1407619>



HEAVYCON EVO sleeve housing, plastic, with bayonet flange for EVO screw connection, B6, for single locking latch, height: 60.5 mm, without EVO screw connection

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

HC-B-G-M20-PLRBK - Cable gland

1407669

<https://www.phoenixcontact.com/us/products/1407669>



EVO plastic cable gland with bayonet locking, for housing series B, size M20, cable diameter: 7 mm ... 13 mm

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

Technical data

Notes

| | |
|---------|--|
| General | Connectors may be operated only when there is no load/voltage. |
|---------|--|

Product properties

| | |
|------------------------------|------------------|
| Product type | Connector set |
| Housing type | Complete housing |
| Series | HC-B |
| Type | B6 |
| Number of positions | 6 |
| Connection profile | 6+PE |
| Contact numbering | 1 - 6 |
| No. of cable outlets | 1 |
| Type of the screw connection | 1x M20 |
| Protective cover | yes |
| Cable outlet | straight |
| Pg screw connection | none |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

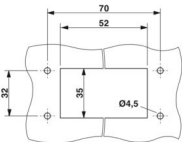
Electrical properties

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

Connection data

| | |
|------------------------------|--|
| Connection method | Push-in connection |
| Connection technology | Push-in connection |
| Conductor cross-section | 0.14 mm ² ... 2.5 mm ² (with ferrule) 0.14 mm ² ... 2.5 mm ² (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 | 103 mm |

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

| | |
|---------------------------------|---------|
| Length | 80.5 mm |
| Drill hole distance, horizontal | 70 mm |
| Drill hole distance, vertical | 32 mm |

Installation dimensions

| | |
|-------------------------------|-------|
| Width of the assembly cutout | 35 mm |
| Length of the assembly cutout | 52 mm |

Mechanical characteristics

| | |
|------------------|--------|
| Contact diameter | 2.5 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 | PC |
| Locking latch material | PA |

Cable/line

| | |
|-------------------------|----------------|
| External cable diameter | 7 mm ... 13 mm |
|-------------------------|----------------|

Mechanical properties

Mechanical data

| | |
|------------------------------|--------|
| Type of the screw connection | 1x M20 |
| 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. |
|---------------|---|

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set

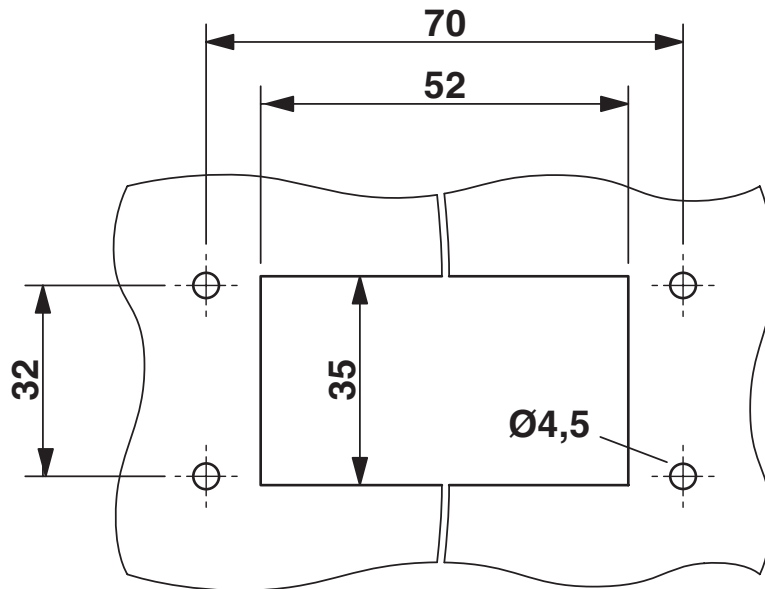


1407710

<https://www.phoenixcontact.com/us/products/1407710>

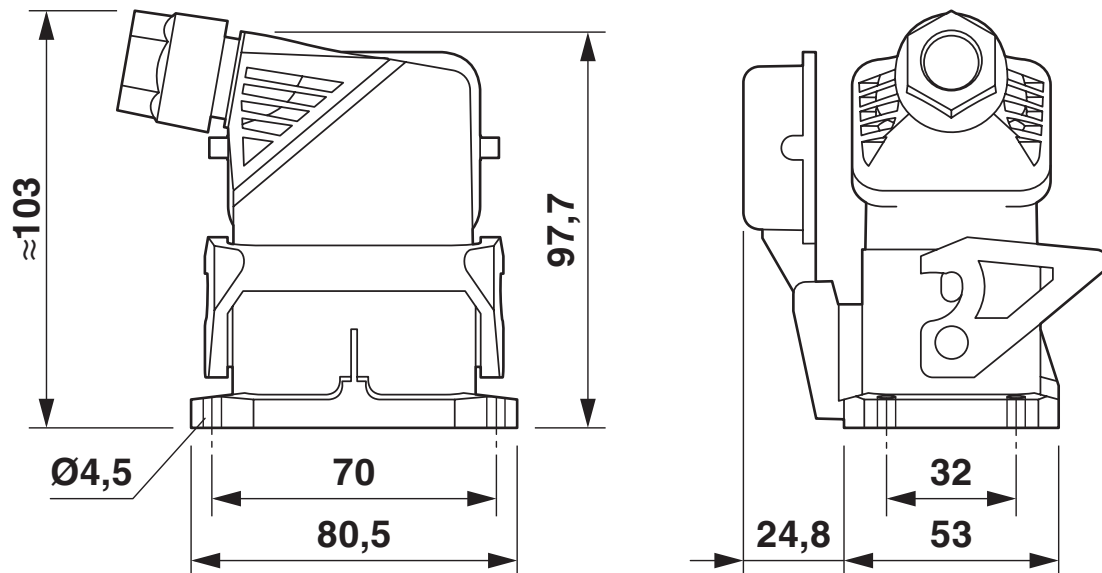
Drawings

Dimensional drawing



Mounting cutout

Dimensional drawing



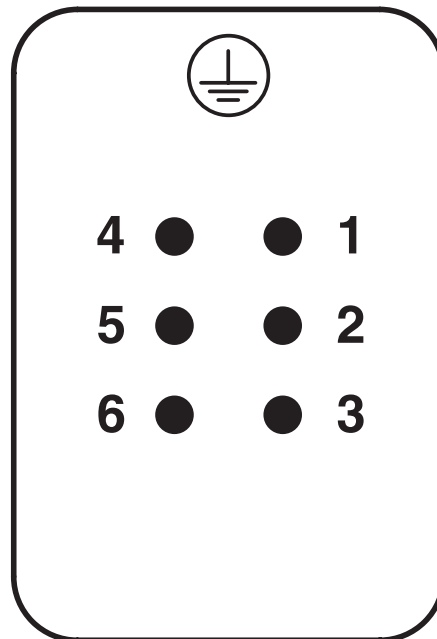
Dimensional drawing

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set

1407710

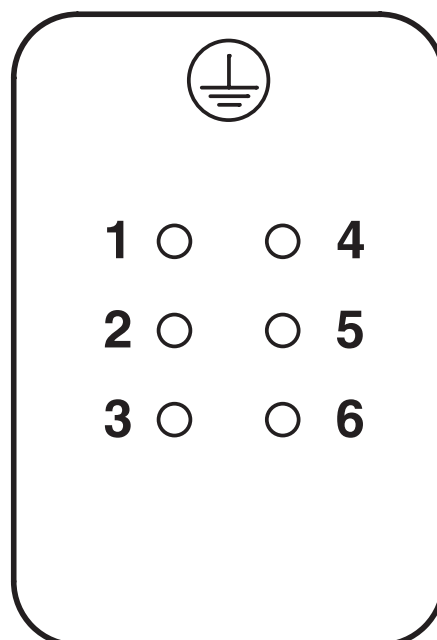
<https://www.phoenixcontact.com/us/products/1407710>

Schematic diagram



Pin assignment, connection side, pin

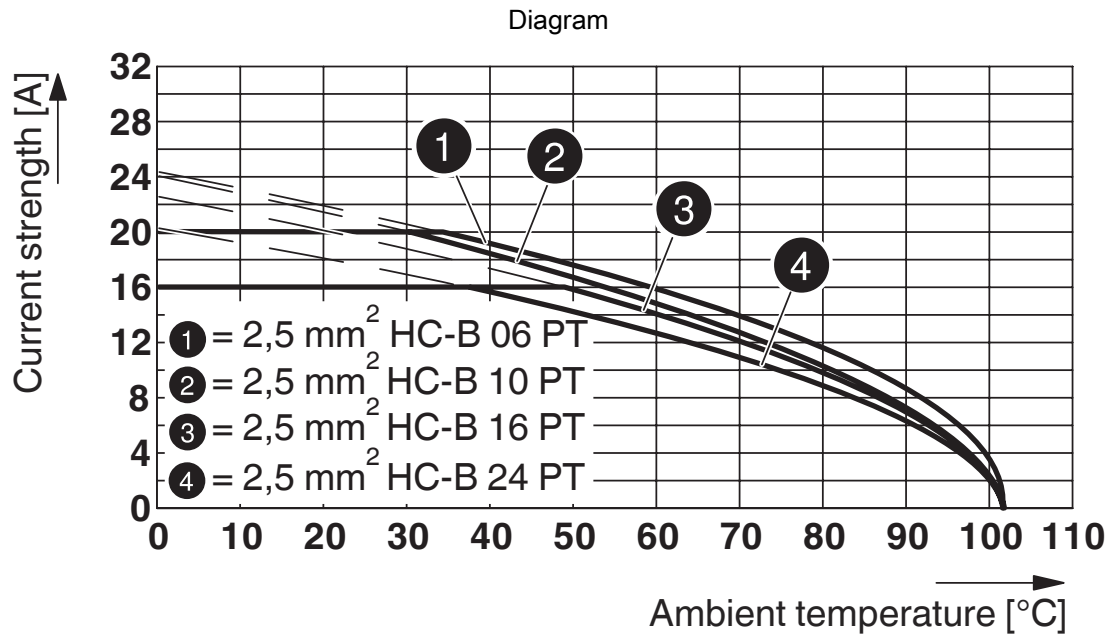
Schematic diagram



Pin assignment, connection side, socket

1407710

<https://www.phoenixcontact.com/us/products/1407710>



Derating diagram

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1407710>

DNV

Approval ID: TAE000037S



EAC

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

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440113 |
| ECLASS-15.0 | 27440113 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002636 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

HC-EVO-B06PT-BWSC-HL-M20-PLRBK - Connector set



1407710

<https://www.phoenixcontact.com/us/products/1407710>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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