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

1407727

https://www.phoenixcontact.com/in/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 mm^2 ... 2.5 mm^2, application: Power

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 pick-off for 2 mm test plug

Commercial data

Item number	1407727
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7
Product key	BF7ABC
Catalog page	Page 541 (C-2-2019)
GTIN	4046356777520
Weight per piece (including packing)	48.5 g
Weight per piece (excluding packing)	48 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.

Mounting

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

Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-B
Application	Power
Type	B6
Number of positions	6
Connection profile	6+PE
Contact numbering	1 - 6
Number of connections per position	1
Contact material type	rolled
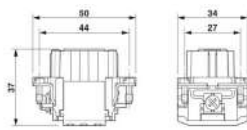
Data management status

Article revision	08

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	37 mm
Length	50.5 mm
Drill hole distance, horizontal	44 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Contact diameter	2.5 mm

Connection data

Connection technology

Connection technology	Push-in connection
Number of connections per position	1

Conductor connection

Conductor cross section	0.14 mm² ... 2.5 mm²
Connection cross section AWG	26 ... 14
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

Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A (power contacts)
SCCR	5 kA (UL 2237)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
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)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Drawings

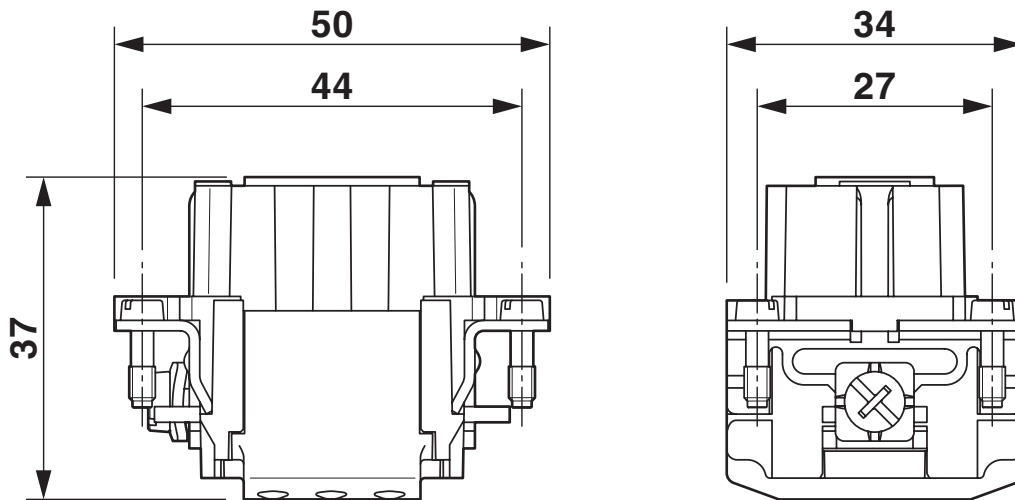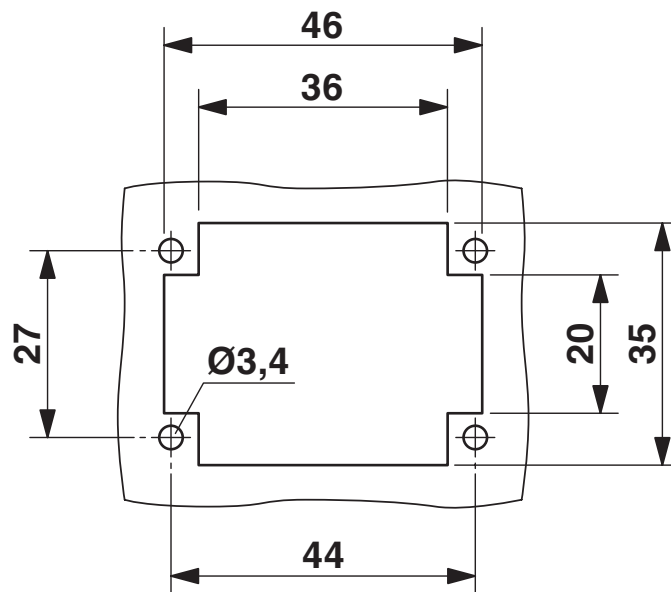### Dimensional drawing

Dimensional drawing

Dimensional drawing
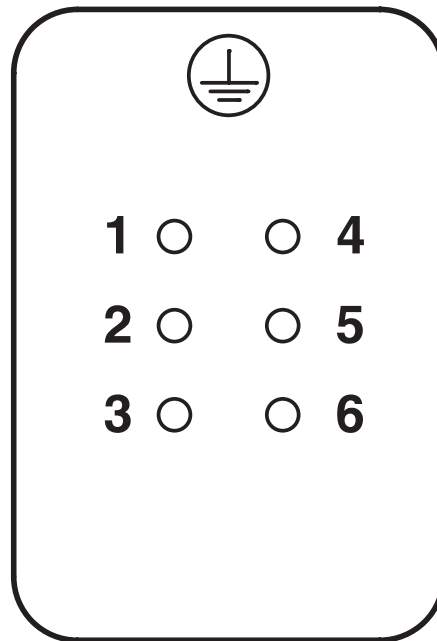
Mounting cutout when used without housing
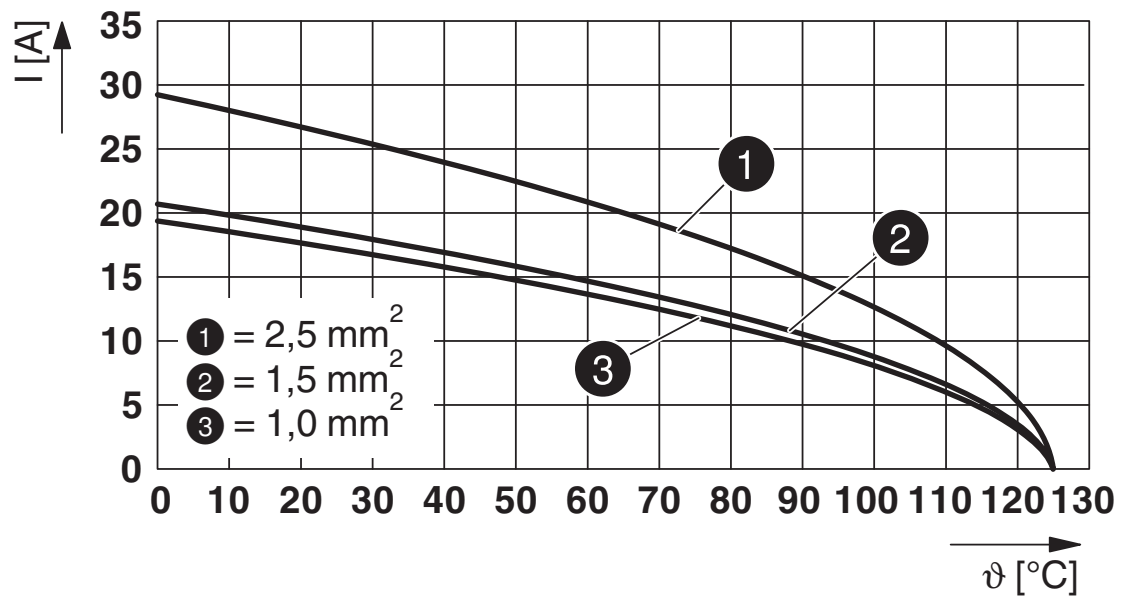
HC-B06-I-PT-F - Contact insert

Schematic diagram

Connector pin assignment, connection side

Diagram

① = 2,5 mm^2
② = 1,5 mm^2
③ = 1,0 mm^2

Derating diagram

Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1407727

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	13 A	- 14	-

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	13 A	- 14	-

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

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	-

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

Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 9.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

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%

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

1407727

https://www.phoenixcontact.com/in/products/1407727

Accessories

CP-HC - Coding profile

1686478

https://www.phoenixcontact.com/in/products/1686478

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

HC-CB - Coding bolt

1772722

https://www.phoenixcontact.com/in/products/1772722

Coding pin, prevents mismating of up to six connectors with an identical number of positions

HC-CST - Coding element

1676857

https://www.phoenixcontact.com/in/products/1676857

Coding peg for coding up to 16 connectors

HC-CBU - Coding element

1676860

https://www.phoenixcontact.com/in/products/1676860

Coding socket for coding up to 16 connectors

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https://www.phoenixcontact.com/in/products/1407727

HC-B-PE-PT - Adapter

1054672

https://www.phoenixcontact.com/in/products/1054672

PE adapter with PT connection, for 1 PE connection, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

HC-B-2PE-PT - PE multiplier

1054675

https://www.phoenixcontact.com/in/products/1054675

PE adapter with PT connection, for 2 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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

1407727

https://www.phoenixcontact.com/in/products/1407727

HC-B-3PE - PE multiplier

1644326

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

PE multiplier, for 3 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

HC-B-PES - Screw

1604997

https://www.phoenixcontact.com/in/products/1604997

PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64

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

1407727

https://www.phoenixcontact.com/in/products/1407727

HC-B-ZG - Strain relief clamp

1685327

https://www.phoenixcontact.com/in/products/1685327

Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

HC-B-ZS - Strain relief clamp

1685330

https://www.phoenixcontact.com/in/products/1685330

Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

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

1407727

https://www.phoenixcontact.com/in/products/1407727

HC-CIF-B06-HFWL-PL - DIN rail mounting frame

1424334

https://www.phoenixcontact.com/in/products/1424334

DIN rail mounting frame, design: B6, for contact inserts, Top frame

HC-B 6-ANDOCK - Docking frame

1586112

https://www.phoenixcontact.com/in/products/1586112

Docking frames for racks, for type B6 contact inserts, with 4 M5 flat headed screws, slide-in offset for x/y axis of ±1.5 mm

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

1407727

https://www.phoenixcontact.com/in/products/1407727

HC-CIF-B06-24-BFAFL-PL - DIN rail mounting frame

1424338

https://www.phoenixcontact.com/in/products/1424338

DIN rail mounting frame, design: B6 - B24, for contact inserts, Base frame

HC-B24/6-ADP-SS - Adapter plate

1034215

https://www.phoenixcontact.com/in/products/1034215

Adapter plate, design: B24 to B6

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

1407727

https://www.phoenixcontact.com/in/products/1407727

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

1407728

https://www.phoenixcontact.com/in/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 mm^2 … 2.5 mm^2, application: Power

CF CRIMPHANDY 0,5 - Electrical crimping tool

1212463

https://www.phoenixcontact.com/in/products/1212463

Mobile handheld device, battery-powered, for processing on-tape ferrules 0.5 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 0.5 mm^2, packed in a robust case.

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

1407727

https://www.phoenixcontact.com/in/products/1407727

CF CRIMPHANDY 0,75 - Electrical crimping tool

1212464

https://www.phoenixcontact.com/in/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.

CF CRIMPHANDY 1,0 - Electrical crimping tool

1212465

https://www.phoenixcontact.com/in/products/1212465

Mobile handheld device, battery-powered, for processing on-tape ferrules 1.0 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 1.0 mm^2, packed in a robust case.

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

1407727

https://www.phoenixcontact.com/in/products/1407727

CF CRIMPHANDY 1,5 - Electrical crimping tool

1212466

https://www.phoenixcontact.com/in/products/1212466

Mobile handheld device, battery-powered, for processing on-tape ferrules 1.5 mm^2 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 mm^2, packed in a robust case.

CRIMPFOX 6 - Crimping pliers

1212034

https://www.phoenixcontact.com/in/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

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

1407727

https://www.phoenixcontact.com/in/products/1407727

CRIMPFOX CENTRUS 10S - Crimping pliers

1213154

https://www.phoenixcontact.com/in/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

CRIMPFOX CENTRUS 6S - Crimping pliers

1213144

https://www.phoenixcontact.com/in/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