

HC-HS06-I-UT-M 7-12 - Contact insert



1406534

<https://www.phoenixcontact.com/in/products/1406534>

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Contact insert, number of positions: 6+PE, size: B16, Pin, Screw connection, 400 V/690 V, 41 A, 0.5 mm² ... 6 mm², application: Power

Your advantages

- For fast coding with plastic profile

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1406534
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7
Product key	AF7ABI
Catalog page	Page 563 (C-2-2019)
GTIN	4046356926287
Weight per piece (including packing)	90.4 g
Weight per piece (excluding packing)	91.62 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	For HEAVYCON housing B16 and B32
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
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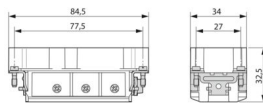
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-HS
Application	Power
Type	B16 B32
Number of positions	6
Connection profile	6+PE
Contact numbering	7 - 12
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Contact diameter	3.5 mm
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Connection data

Connection technology

Connection technology	Screw connection
Connection in acc. with standard	IEC / EN

Conductor connection

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Conductor cross section	0.5 mm ² ... 6 mm ² (power contacts)
Connection cross section AWG	20 ... 10
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	1.2 Nm
Stripping length of the individual wire	10 mm

Electrical properties

Rated voltage (III/3)	400 V (Conductor-PE)
	690 V (Conductor-Conductor)
Rated voltage for power contacts	400/690 V
Rated surge voltage	6 kV (power contacts)
Rated current	41 A (power contacts)
SCCR	5 kA (UL 2237)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Material specifications

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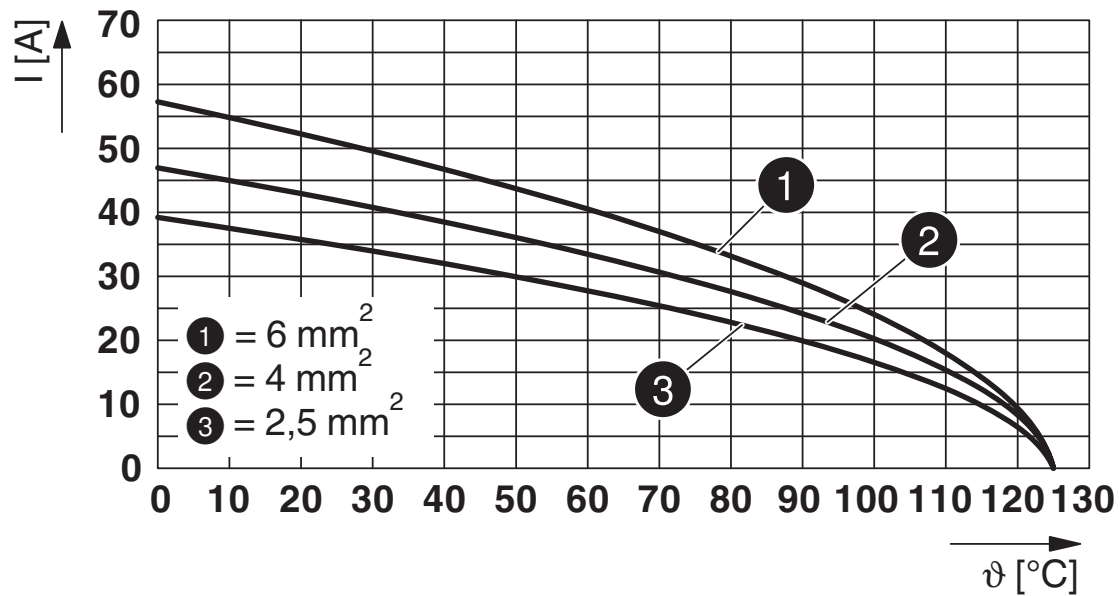
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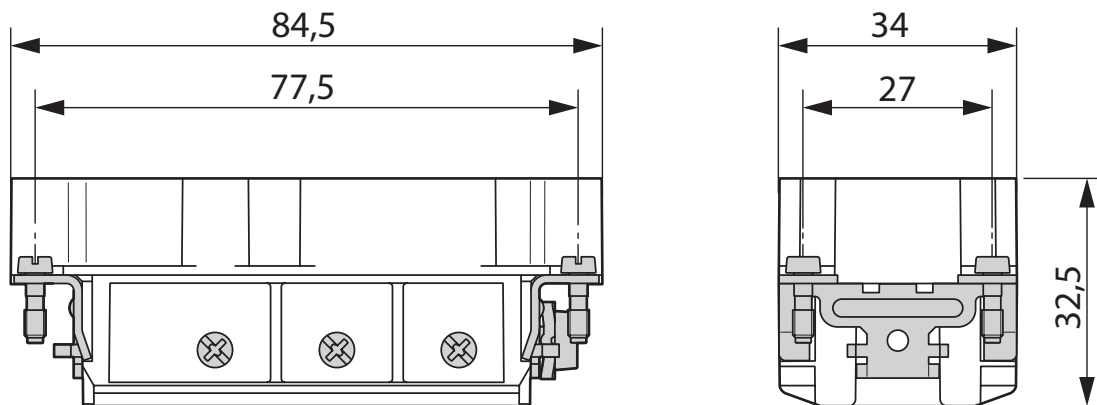
Drawings

Diagram



Derating diagram

Dimensional drawing



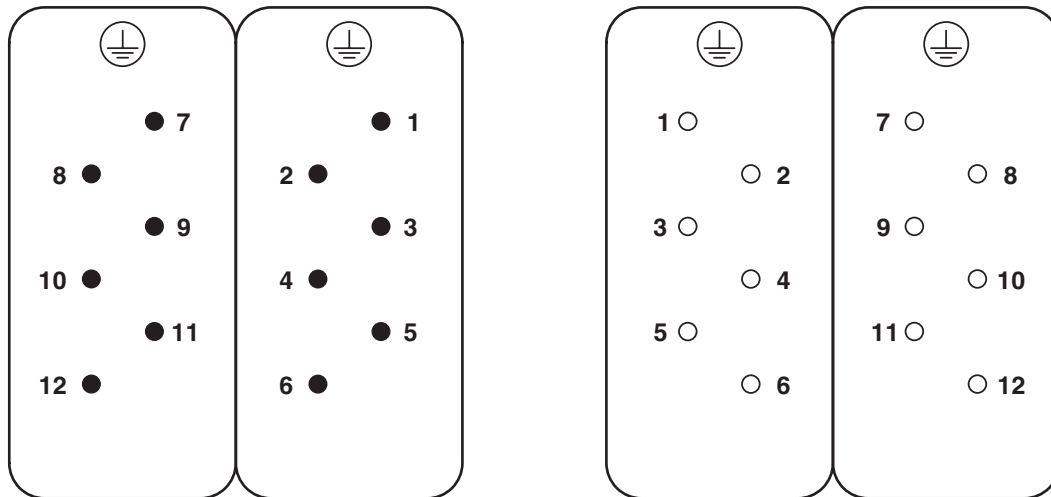
Male insert

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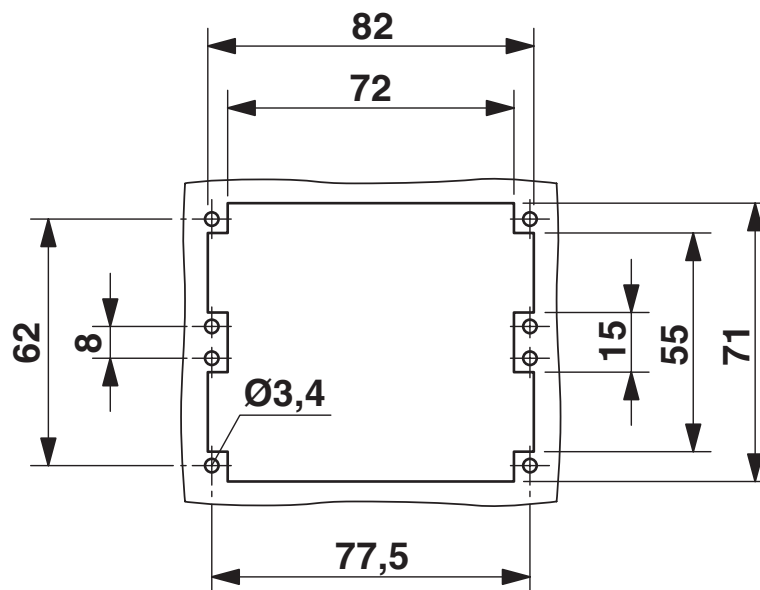
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Schematic diagram



Connector pin assignment, connection side

Dimensional drawing



Mounting cutout when used without housing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1406534>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_0_000

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	32 A	- 10	-



UL Recognized

Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	35 A	-	-



UL Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	35 A	-	-

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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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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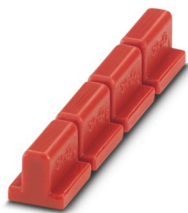


Accessories

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

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HC-CST - Coding element

1676857

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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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HC-B-PE-PT - Adapter

1054672

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

HC-B-2PE-PT - PE multiplier

1054675

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

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HC-HS-PES - Screw

1586219

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PE screw, for HC-HS contact inserts

HC-CIF-B16-HFWL-PL - DIN rail mounting frame

1424336

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DIN rail mounting frame, design: B16, for contact inserts, Top frame

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HC-B 16-ANDOCK - Docking frame

1586138

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Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis ± 1.5 mm

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

1424338

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

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HC-B24/16-ADP-SS - Adapter plate

1034216

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Adapter plate, design: B24 to B16



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