

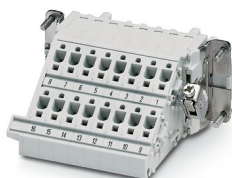
Terminal adapter - HC-B 16-A-DT-PEL-F



1648432

<https://www.phoenixcontact.com/us/products/1648432>

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HEAVYCON terminal adapter socket insert, B16 series, 16-pos., for the left side of the control cabinet, push-in connection

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

Commercial Data

Item number	1648432
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B10
Product Key	BF7ADC
Catalog Page	Page 549 (C-2-2019)
GTIN	4046356092159
Weight per Piece (including packing)	137.61 g
Weight per Piece (excluding packing)	136.95 g
Customs tariff number	85366990
Country of origin	CN

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Technical Data

Notes

General	For HEAVYCON-ADVANCE mounting flange and HEAVYCON panel mounting base of B16 type
General	Connectors may be operated only when there is no load/voltage.

Product properties

Type	B16
Product type	Terminal adapter
Number of positions	16
Connection profile	16+PE
Type	Socket for the left side of the control cabinet
Series	HC-B

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
SCCR	5 kA (UL 2237)

Connection data

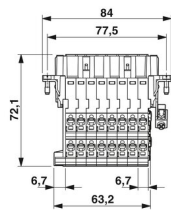
Connection technology

Connection technology	Push-in connection
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Conductor connection

Conductor cross section	0.5 mm ² ... 2.5 mm ²
Connection cross section AWG	22 ... 12
Stripping length of the individual wire	10 mm (13 mm if ferrules are used)

Dimensions

Dimensional drawing	
Width	34 mm

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Height	72.1 mm
Length	84 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm

Material specifications

Color	light grey
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Cable / line

Stripping length of the individual wire	10 mm (13 mm if ferrules are used)
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Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 125 °C

Standards and regulations

Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
	IEC 60352
Tests	DIN EN 61984
	DIN EN 60664
	IEC 60352

Testing

Standards/regulations	PA: 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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Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	Connectors may be plugged in only when there is no load/voltage.

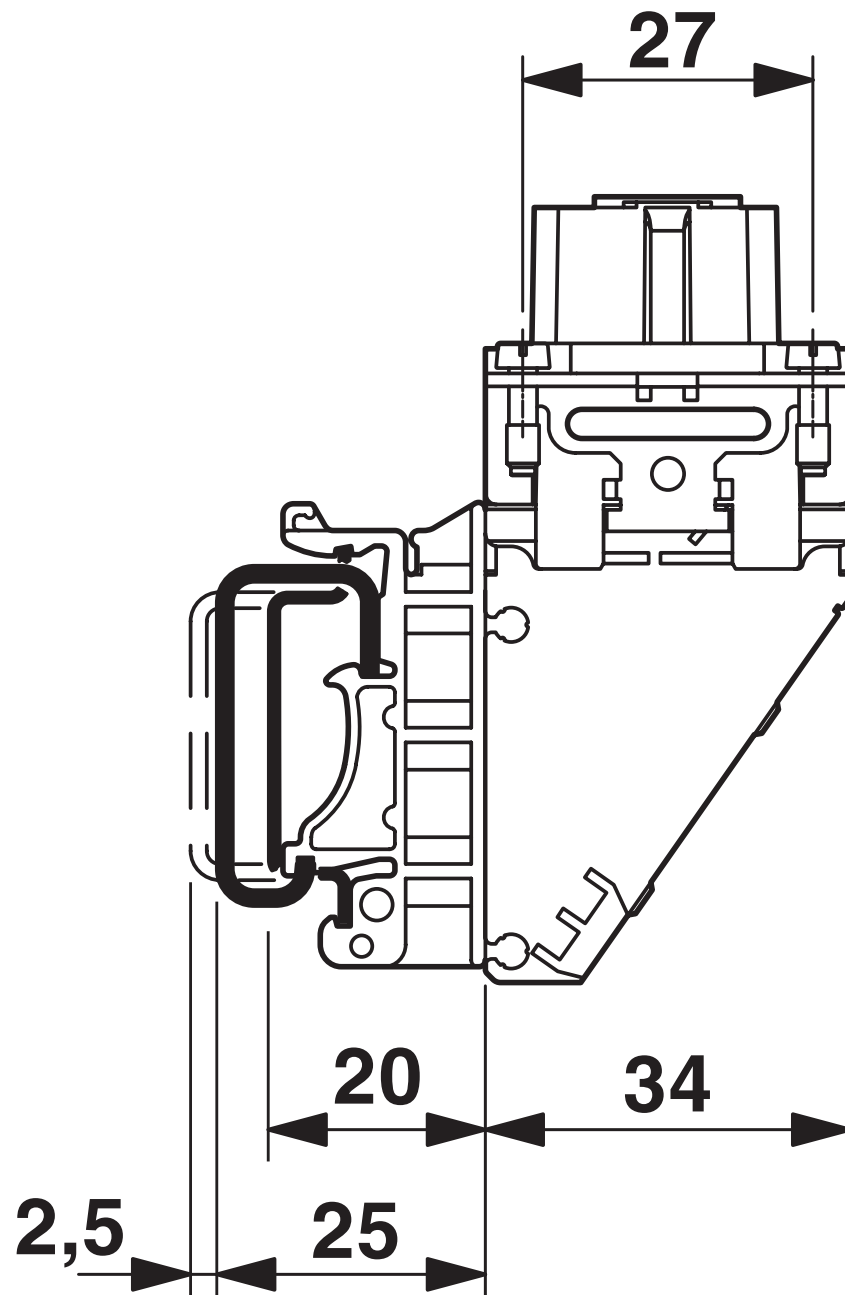
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Drawings

Dimensional drawing



Dimensional drawing, side view

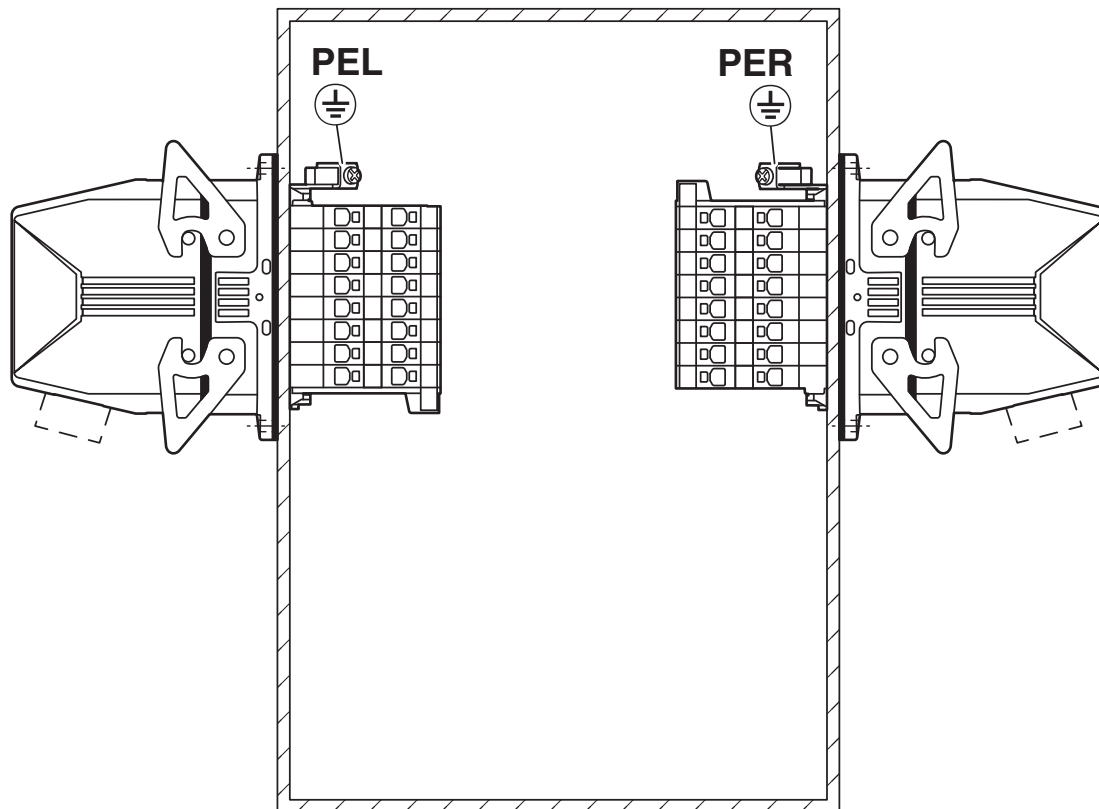
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Application drawing



Mounting position PE connection left/right (PEL/PER)

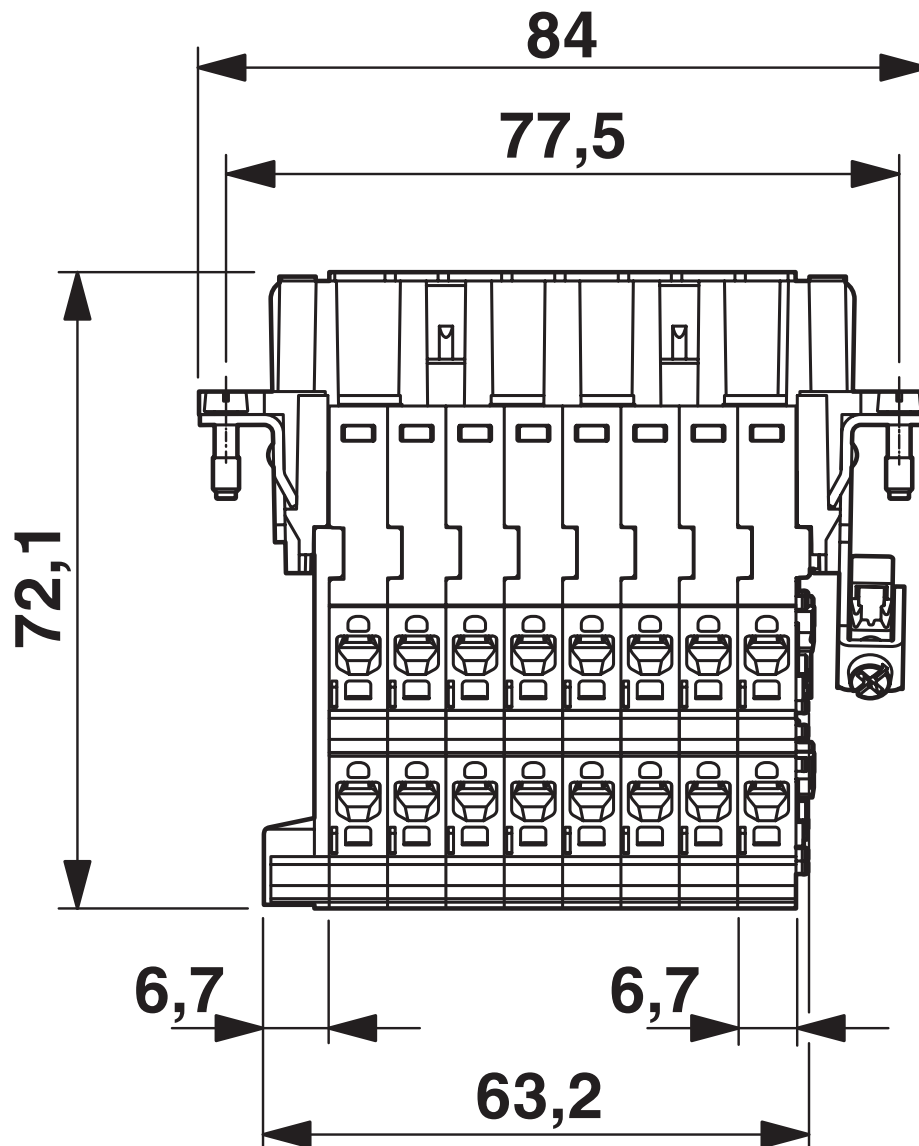
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Dimensional drawing



Dimensional drawing

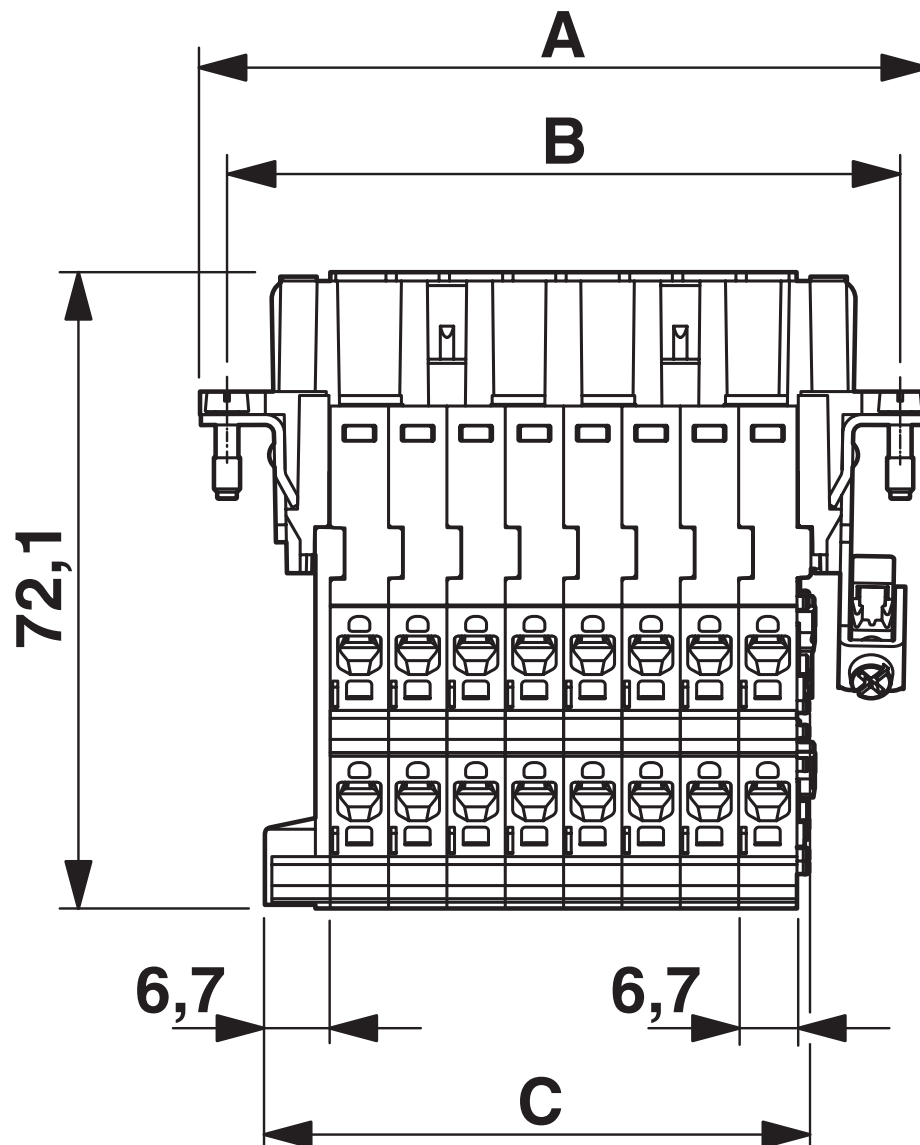
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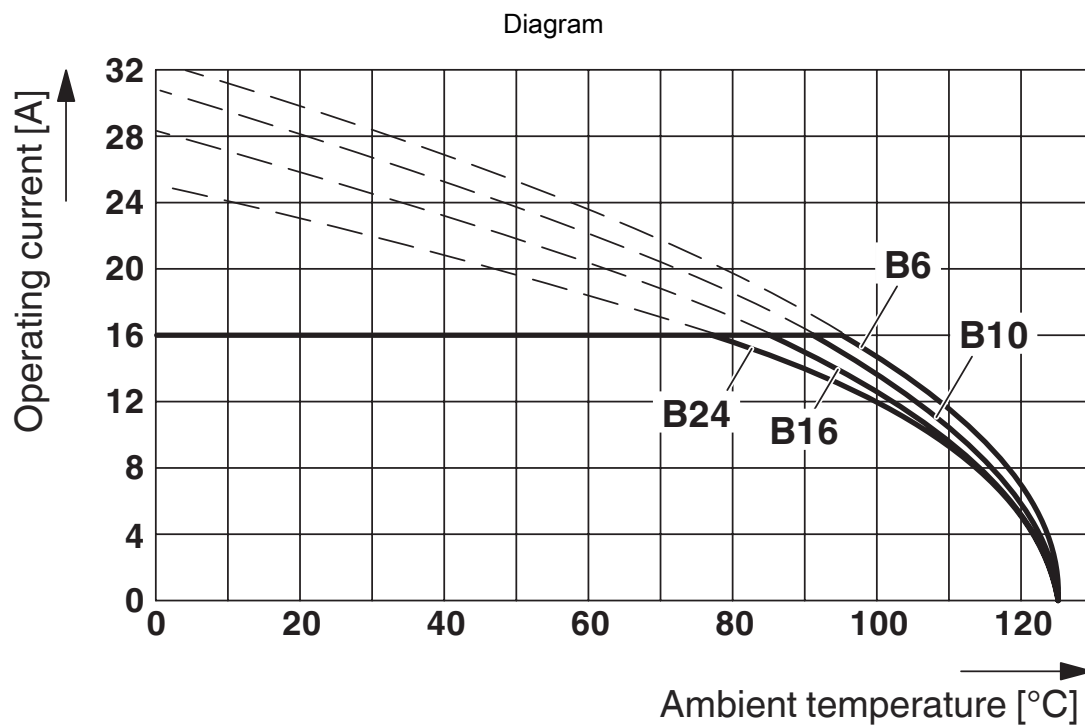
Dimensional drawing



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Derating diagram

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Approvals

 CSA Approval ID: 013631_6233_01				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	13 A	22 - 14	-

 cUL Recognized Approval ID: FILE E 118976				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	13 A	22 - 14	-

 UL Recognized Approval ID: FILE E 118976				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	13 A	22 - 14	-

 EAC Approval ID: RU C-DE.AI30.B.01102				
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 EAC Approval ID: RU C-DE.BL08.B.00511				
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 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	-

cULus Recognized				
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Classifications

ECLASS

ECLASS-9.0	27440222
ECLASS-10.0.1	27440222
ECLASS-11.0	27440222

ETIM

ETIM 8.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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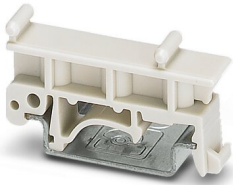
Accessories

Foot element

Foot element - HC-KA-FE - 1775240

<https://www.phoenixcontact.com/us/products/1775240>

Foot element, for mounting on DIN rail NS 32, DIN rail NS 35/7.5 or DIN rail NS 35/15, can be inserted between basic and side element



Locking screw barrel

Locking screw barrel - HC-VSH - 1660083

<https://www.phoenixcontact.com/us/products/1660083>

Locking screw barrel, for a firm connection of contact inserts and DIN-rail mountable terminal adapters



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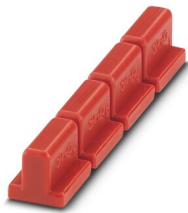
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Coding profile

Coding profile - CP-HC - 1686478

<https://www.phoenixcontact.com/us/products/1686478>



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

Coding element

Coding element - HC-CST - 1676857

<https://www.phoenixcontact.com/us/products/1676857>



Coding peg for coding up to 16 connectors

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Coding element

Coding element - HC-CBU - 1676860

<https://www.phoenixcontact.com/us/products/1676860>



Coding socket for coding up to 16 connectors

Coding bolt

Coding bolt - HC-CB - 1772722

<https://www.phoenixcontact.com/us/products/1772722>



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

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Screw

Screw - HC-B-PES - 1604997

<https://www.phoenixcontact.com/us/products/1604997>

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



PE multiplier

PE multiplier - HC-B-3PE - 1644326

<https://www.phoenixcontact.com/us/products/1644326>

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



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Zack marker strips off the roll, flat

Zack marker strips off the roll, flat - ZBF-U CUS - 0828525

<https://www.phoenixcontact.com/us/products/0828525>



Zack marker strips off the roll, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 1000 mm, lettering field size: 5.15 x ... mm

Screwdriver

Screwdriver - SZF 0-0,4X2,5 - 1204504

<https://www.phoenixcontact.com/us/products/1204504>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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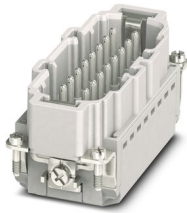


Contact insert

Contact insert - HC-B16-I-PT-M - 1407732

<https://www.phoenixcontact.com/us/products/1407732>

HEAVYCON pin insert, B16 series, 16 + PE-pos., push-in connection



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