

# HC-B 24-A-UT-PEL-F - Terminal adapter



1648054

<https://www.phoenixcontact.com/us/products/1648054>

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HEAVYCON terminal adapter, socket insert, B24 series, 24-pos., for the left control cabinet panel, screw connection



## Commercial data

Item number	1648054
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BF61
Product key	AF7ADC
GTIN	4017918969677
Weight per piece (including packing)	205 g
Weight per piece (excluding packing)	40 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Product properties

Product type	Terminal adapter
Product family	HC-B
Series	HC-B
Type	B24
Number of positions	24
Connection profile	24+PE
Contact numbering	1 - 24
Screwdriver blade	0.5 x 3.5 mm

### 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

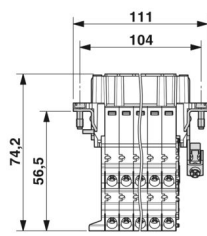
#### Connection technology

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

#### Conductor connection

Conductor cross-section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	20 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm
Stripping length of the individual wire	12 mm

### Dimensions

Dimensional drawing	
Width	34 mm
Height	74.2 mm

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Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

## Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Standards/regulations	PA

## Cable/line

Stripping length of the individual wire	12 mm
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## Mechanical properties

### Mechanical data

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

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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## 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 note	To ensure correct use, installation in housing with IP54 protection or better is required
	Connectors may only be actuated when there is no load/voltage.

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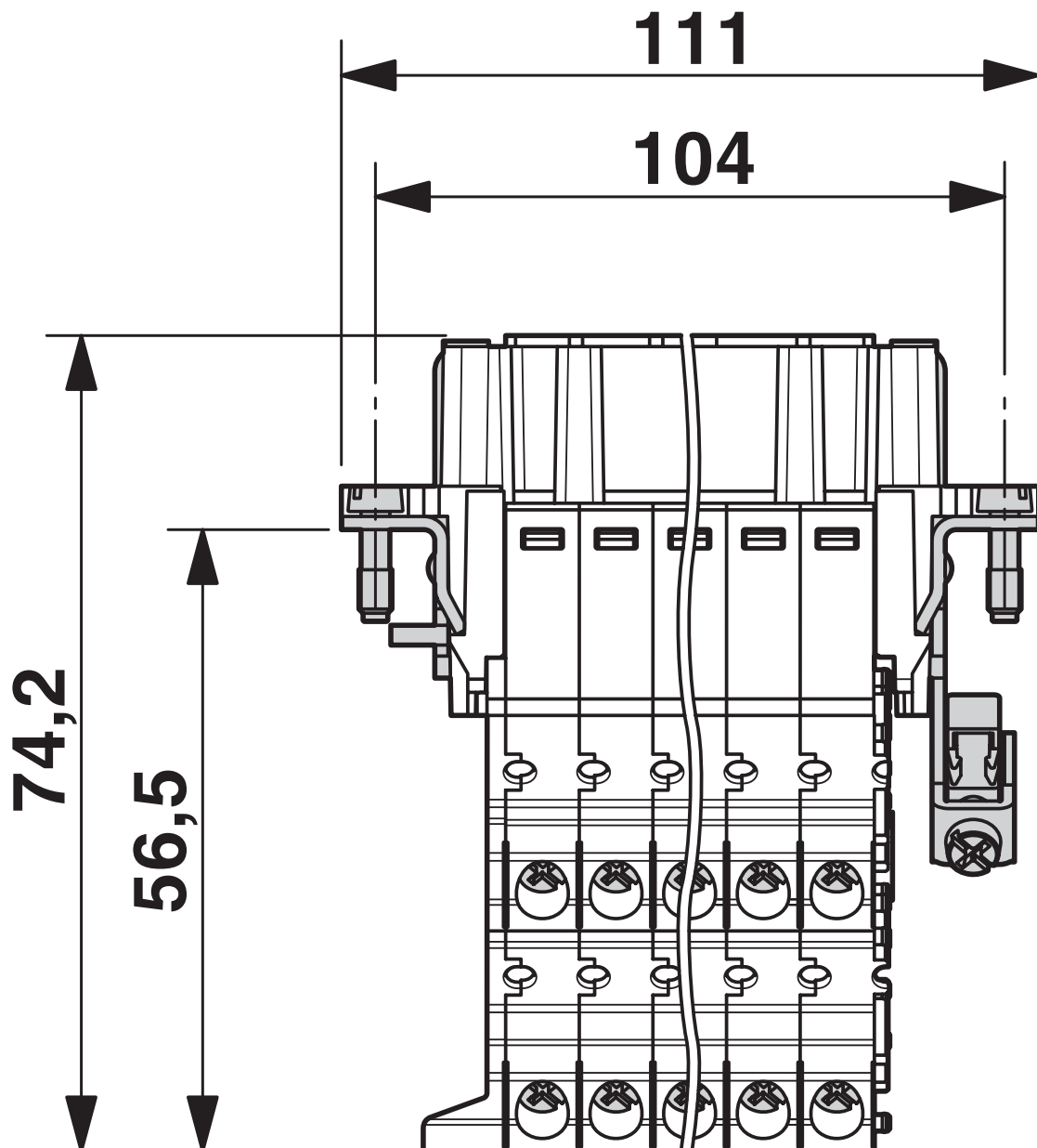


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## Drawings

Dimensional drawing



Connection side

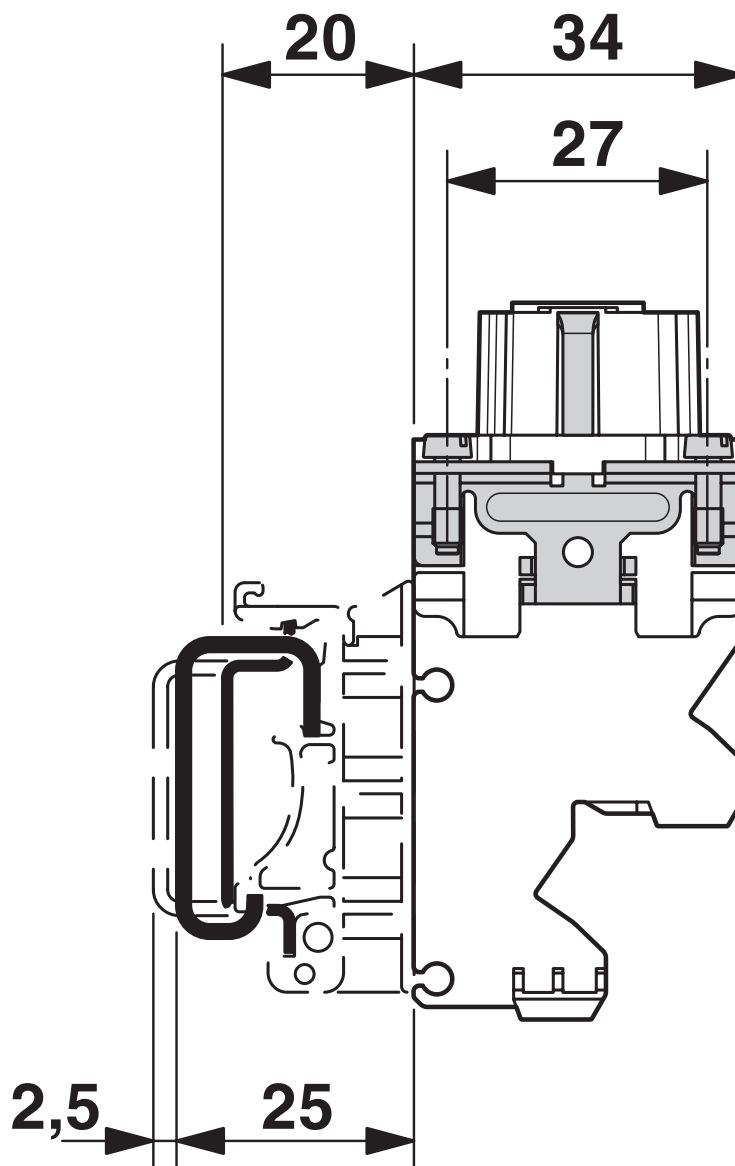
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Dimensional drawing



Side view

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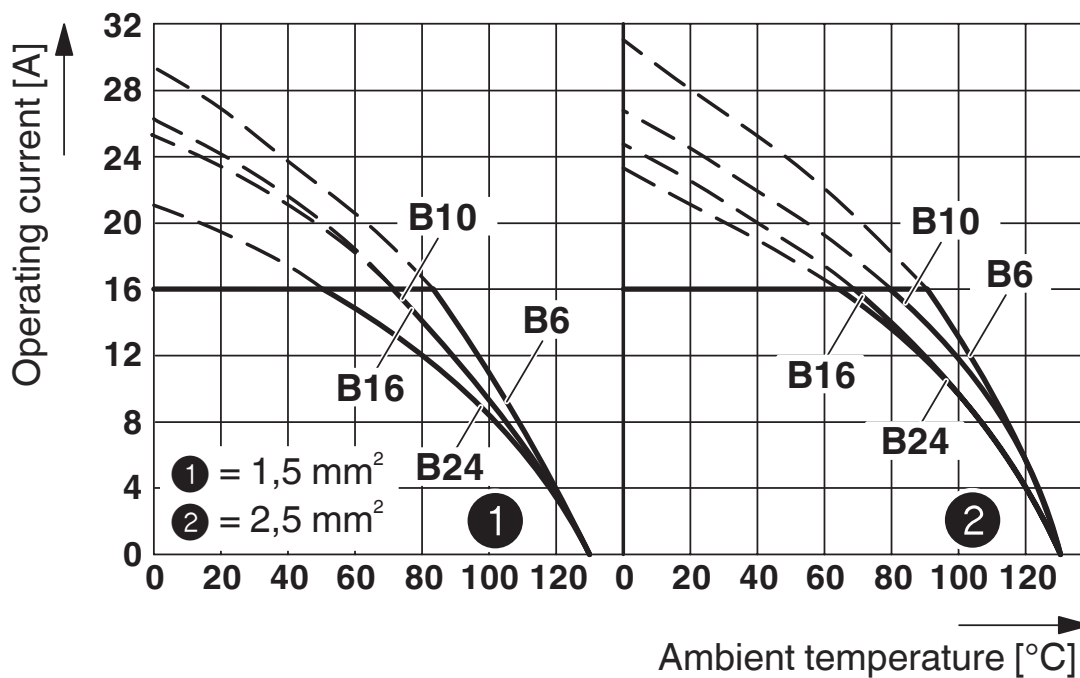
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Application drawing



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

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1648054>

 <b>CSA</b> Approval ID: 013631_6233_01				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	13 A	22 - 14	-

 <b>cUL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	13 A	22 - 14	-

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	13 A	22 - 14	-

 <b>cULus Recognized</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	14 A	- 14	-

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## Classifications

### ECLASS

ECLASS-13.0	27440222
ECLASS-15.0	27440222

### ETIM

ETIM 10.0	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
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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