

1417296

https://www.phoenixcontact.com/us/products/1417296

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Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Socket, Axial screw connection, 690 V, 70 A, 4 mm<sup>2</sup> ... 25 mm<sup>2</sup>, application: Power

#### Commercial data

Item number	1417296
Packing unit	2 pc
Minimum order quantity	2 pc
Sales key	BF62
Product key	BF7ACE
Catalog page	Page 573 (C-2-2019)
GTIN	4055626111490
Weight per piece (including packing)	31.04 g
Weight per piece (excluding packing)	30 g
Customs tariff number	85366990
Country of origin	PL



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### Technical data

#### Notes

General	For HEAVYCON HC-B6 to B48 housing, HC-M-MHR hinged retaining frame required, axial connection for 2.5 mm Allen key
General	Connectors may be operated only when there is no load/voltage.
General	The axial screw connection must be established using a 2.5 mm Allen key (for stranded conductors only)

### Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	Note regarding axial connection  technology:  Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used.  Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use.  The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use.
	Assembly instructions  Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.
Hexagonal socket	SW2,5

### Product properties

Product type	Modular contact insert
Number of positions	2
Connection profile	2
Contact numbering	1 - 2
Application	Power
Number of module slots	1
No. of power contacts	2
No. of control contacts	0
Series	HC-M-02

Insulation characteristics



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	Overvoltage category	III
	Degree of pollution	3
Со	nnection data	
(	Connection technology	
	Connection technology	Axial screw connection

IEC / EN

Connection in acc. with standard

Conductor connection		
Conductor cross section	4 mm <sup>2</sup> 25 mm <sup>2</sup> (The cross section specification refers to the geometric cross section of the cable used)	
Connection cross section AWG	16 4	
Tightening torque	2 Nm (4 6 mm²)	
	3 Nm (10 mm² 25 mm²)	
Stripping length of the individual wire	11 mm (with an outside conductor diameter up to 7 mm)	
	15 mm (with an outside conductor diameter up to 10.5 mm)	

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Dimensions		
Dimensional drawing	14.6	
Width	34.2 mm	
Height	46.5 mm	
Length	14.6 mm	
Mechanical characteristics		
Minimum housing height	72 mm	
Contact diameter	6 mm	
Electrical properties		
Rated voltage (III/2) contacts	1000 V	
Rated voltage (III/3)	690 V	

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Rated voltage (III/2) contacts	1000 V
Rated voltage (III/3)	690 V
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated surge voltage	6 kV
Rated current	70 A

#### Mechanical properties

Mechanical data		
Insertion/withdrawal cycles	≥ 500	

#### Material specifications

national opcomisations			
Flammability rating according to UL 94	. V0		



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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

, and other desired to			
	Ambient temperature (operation)	-40 °C 125 °C	

#### 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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### Classifications

UNSPSC 21.0

#### **ECLASS**

27440217
27440217
27440217
EC000438

39121400



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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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