HC-HS 2-D7-ESTS - Contact insert

1586277

https://www.phoenixcontact.com/us/products/1586277

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Contact insert, number of positions: 2+PE, size: D7, power contacts: 2, Pin, Axial screw connection, 400 V, 40 A, 4 mm^2 ... 10 mm^2, application: Power

Your advantages

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

Commercial data

Item number	1586277
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BF61
Product key	BF7ABJ
Catalog page	Page 511 (C-2-2019)
GTIN	4046356410229
Weight per piece (including packing)	23.6 g
Weight per piece (excluding packing)	23.6 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	for HC-D7 housing, axial connection 2.0 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 mm Allen key (for stranded conductors only)

Mounting

Assembly note	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	SW2,0

Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-HS
Application	Power
Type	D7
Number of positions	2
Connection profile	2+PE
Contact numbering	1 - 2
No. of power contacts	2
Contact material type	turned

Insulation characteristics

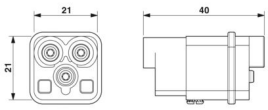
Overvoltage category	III

Degree of pollution	3

Data management status

Article revision	04

Dimensions

Dimensional drawing	
Width	21 mm
Height	40 mm
Length	21 mm

Mechanical characteristics

Contact diameter	4 mm

Connection data

Connection technology

Connection technology	Axial screw connection
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	4 mm² ... 10 mm² (The cross section specification refers to the geometric cross section of the cable used)
Connection cross section AWG	10 ... 8
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	1.8 Nm
Stripping length of the individual wire	8 mm +1 mm

Electrical properties

Rated voltage (III/3)	400 V
Rated surge voltage	6 kV
Rated current	40 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	Copper alloy
Contact surface material	Ag

Contact carrier material	PC

Environmental and real-life conditions

Ambient conditions

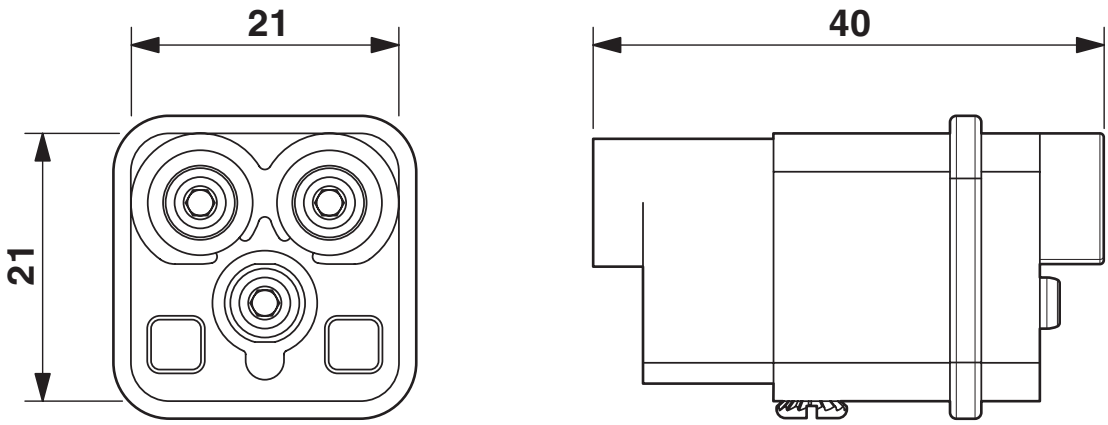
Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)

Standards and regulations

Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352

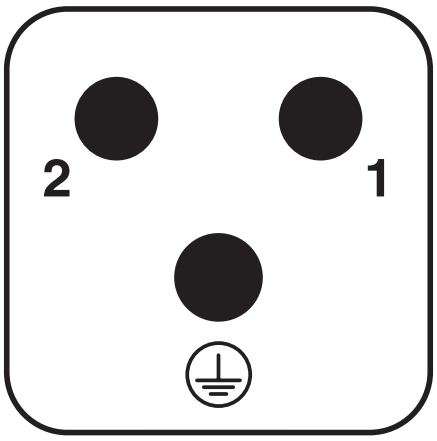
Drawings

Dimensional drawing

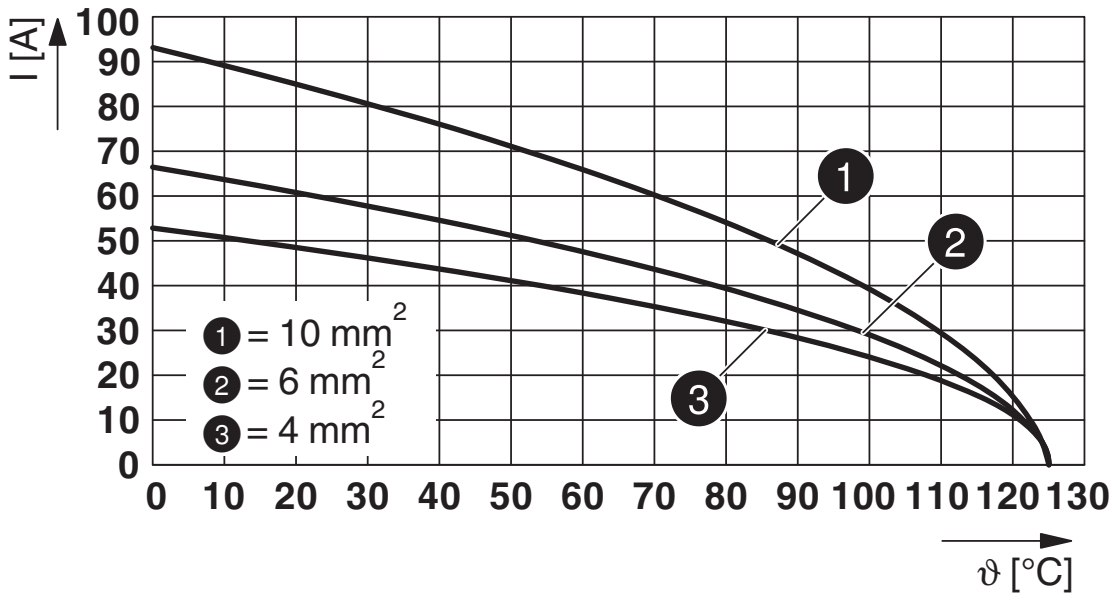


Male insert

Schematic diagram

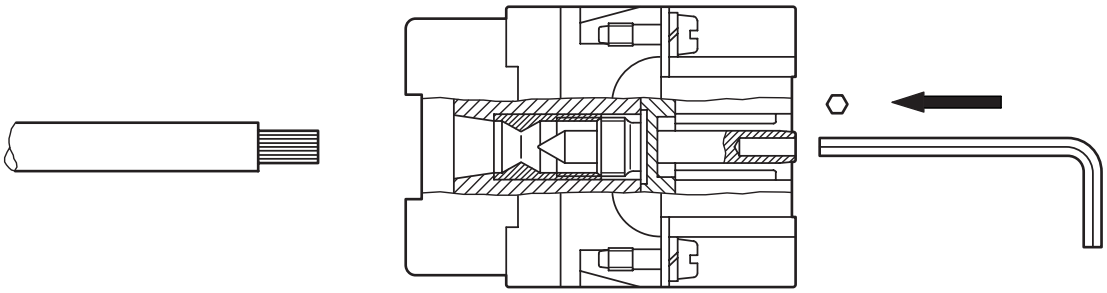


Diagram



Derating diagram

Schematic diagram



Axial screw connection

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1586277

DNV
Approval ID: TAE000037S

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
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.)	Lead(CAS: 7439-92-1)
SCIP	b1f08ca5-21ba-4986-8c25-db79b7fb01da

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com