VC-D3-BU50-PE - Contact insert

1855076

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CRIMP



Contact insert, Range of articles: VARIOCON, design: VC3, number of positions: 50, min. conductor cross-section: 0.14 mm^2, max. conductor cross-section: 1.5 mm^2, rated voltage: 250, rated current: 10 A, Connection method: Crimp connection, Connectors may only be connected/disconnected when under no load.

Your advantages

- Pin and socket contacts can be used on both the plug and device sides
- Contact carriers have two further capacitive PE contacts
- The connection data of 250 V/10 A corresponds to that of the HEAVYCON DD series
- Contact types meet the requirements of IEC 60352/DIN EN 60352

Commercial data

Item number	1855076
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	AB01
Product key	ABLACB
GTIN	4017918159368
Weight per piece (including packing)	50.74 g
Weight per piece (excluding packing)	47.19 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

General	Connectors may only be connected/disconnected when under no load.
General	Please note that full assembly with the maximum conductor cross-section can cause the sheathed cable to have an impermissibly large external diameter. Dimension the conductor cross-section depending on the number of positions.
General	The contact carriers are not suitable for installation in VC-MP-K… coupling housings

Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the

	download page at phoenixcontact.com/products must be observed for this product.
	• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	• Operate the connector only when it is fully plugged in.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Contact insert
Product family	VARIOCON
Series	VC-D
Type	VC3
Number of positions	50
Connection profile	50+PE
Contact material type	turned

Insulation characteristics

Degree of pollution	2

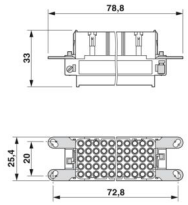
Electrical properties

Rated voltage (II/2)	250 V
Rated voltage (III/3)	250 V
	250 V
Rated voltage	250 (III/2)
Rated surge voltage	4 kV
Rated surge voltage (II/2)	2.5 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage	4 kV
Rated current	10 A
	10 A
	max. 10 A
Nominal voltage U_N	250 V

Connection data

Conductor cross-section flexible	1.5 mm²

Dimensions

Dimensional drawing	
Width	25.4 mm
Height	33 mm
Length	78.6 mm

Mechanical characteristics

Contact diameter	1.6 mm

Material specifications

Color of the housing part	black
Material Housing	Polyamide
Material Contact carrier	PA-GF
Material Contact	CuZn
Flammability rating according to UL 94	V0
Insulating material group	IIIa
Contact surface material	nickel-plated

Cable/line

Single wire, cross section	0.14 mm² 1.5 mm²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	>= 500

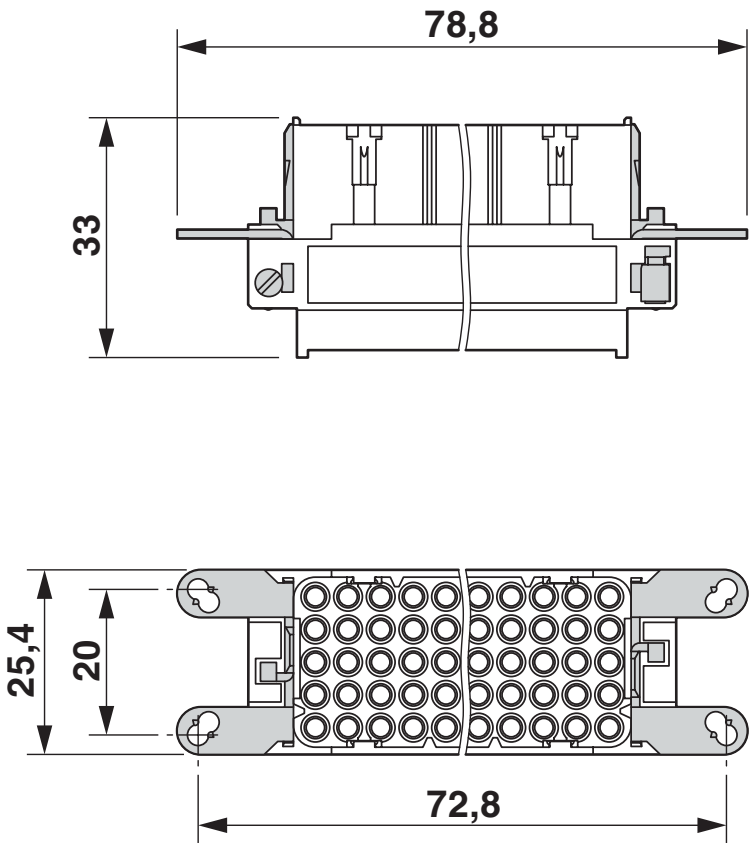
Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C

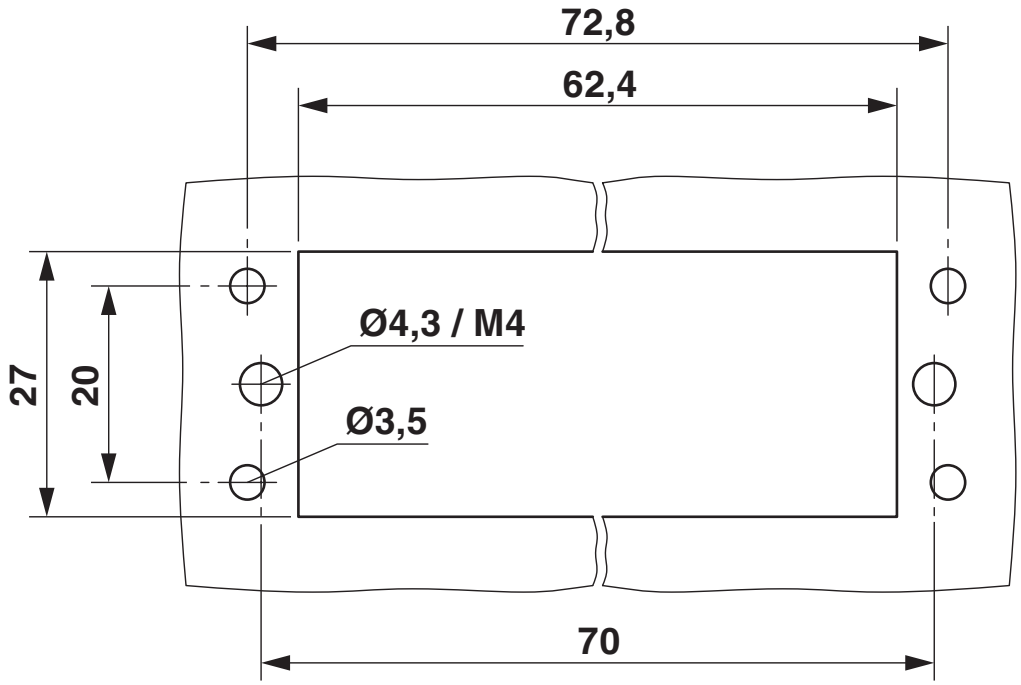
Drawings

Dimensional drawing



Contact insert

Dimensional drawing



Mounting cutout

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1855076

cUL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	250 V	4 A	-	-

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keine				
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Classifications

ECLASS

ECLASS-13.0	27440192

ETIM

ETIM 9.0	EC002943

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	0.272 kg CO2e

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https://www.phoenixcontact.com

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