

# VC-TFS 4 - Contact insert



1607460

<https://www.phoenixcontact.com/us/products/1607460>

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Contact insert, Range of articles: VARIOCON, design: VC2, color: light gray, number of positions: 4, min. conductor cross-section: 0.5 mm<sup>2</sup>, max. conductor cross-section: 16 mm<sup>2</sup>, rated current: 70 A, Connection method: Screw connection

## Commercial data

Item number	1607460
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	AB01
Product key	ABLACC
GTIN	4017918943578
Weight per piece (including packing)	45.11 g
Weight per piece (excluding packing)	38.015 g
Customs tariff number	85366990
Country of origin	PL

## Technical data

### Notes

#### Safety note

Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>
	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
	<ul style="list-style-type: none"> <li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul style="list-style-type: none"> <li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul style="list-style-type: none"> <li>• Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> </ul>
	<ul style="list-style-type: none"> <li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul style="list-style-type: none"> <li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul style="list-style-type: none"> <li>• Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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</li> </ul>
	<ul style="list-style-type: none"> <li>• Observe the corresponding technical data. You will find information: <ul style="list-style-type: none"> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Only use tools recommended by Phoenix Contact</li> </ul>
	<ul style="list-style-type: none"> <li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li> </ul>
	<ul style="list-style-type: none"> <li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li> </ul>
	<ul style="list-style-type: none"> <li>• Operate the connector only when it is fully plugged in.</li> </ul>
	<ul style="list-style-type: none"> <li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the</li> </ul>

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	standards.
	<ul style="list-style-type: none"><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li></ul>
	<ul style="list-style-type: none"><li>• 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).</li></ul>

## Product properties

Product type	Contact insert
Product family	VARIOCON
Type	VC2
Number of positions	4

## Insulation characteristics

Degree of pollution	3
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## Electrical properties

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

## Connection data

Connection method	Screw connection
Tightening torque	1.2 ... 1.8 Nm
Cross section AWG	20 ... 6
Screw thread	M4

## Dimensions

Width	58 mm
Height	27 mm
Length	41.1 mm

## Material specifications

Color	light gray
Color of the housing part	gray
Material Housing	PA 6.6
Material Contact	CuZn
Material Contact carrier	PA 6.6
Flammability rating according to UL 94	V0

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Insulating material group	I
Contact surface material	nickel-plated

## Cable/line

Single wire, cross section	0.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Stripping length of the individual wire	12 mm
Halogen-free	yes

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 50
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607460>

 <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	45 A	20 - 6	-

 <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	55 A	20 - 6	-

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## Classifications

### ECLASS

ECLASS-13.0

27440192

### ETIM

ETIM 9.0

EC002943

### UNSPSC

UNSPSC 21.0

39121400

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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### EF3.1 Climate Change

CO2e kg	0.185 kg CO2e
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