

1607488

https://www.phoenixcontact.com/gb/products/1607488

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## Your advantages

- Proven COMBICON technology
- · Universal connection
- · Can be keyed to prevent incorrect connection

#### Commercial data

Item number	1607488	
Packing unit	5 pc	
Minimum order quantity	5 pc	
Sales key	ABLACC	
Product key	ABLACC	
Catalog page	Page 33 (C-2-2013)	
GTIN	4017918969141	
Weight per piece (including packing)	52.03 g	
Weight per piece (excluding packing)	43.949 g	
Customs tariff number	85366990	
Country of origin	PL	



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### Technical data

#### Notes

General	Connectors may only be connected/disconnected when under no load.
fety 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.
	<ul> <li>WARNING: Commission properly functioning products only.</li> <li>The products must be regularly inspected for damage.</li> <li>Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
	<ul> <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> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <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 phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul> <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>
	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
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Use a protective cap to protect connectors that are not in use.</li> <li>The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products</li> </ul>

• Operate the connector only when it is fully plugged in.



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(	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	Observe the minimum bending radius of the cable. Lay the cable without twisting it.
á \	<ul> <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	
Series	VC-M	
Туре	VC3	
Number of positions	4	
Connection profile	3+PE	
Number of module slots	3	

### Electrical properties

Rated voltage (III/3)	690 V
	690 V
Rated surge voltage	6 kV
	6 kV
Rated current	70 A
	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	80.1 mm
Height	27.2 mm
Length	42.8 mm

#### Material specifications

Color	light grey	
Color of the housing part	gray	
Material Housing	Polyamide	
Material Contact carrier	PA	
Material Contact	E-Cu 58	
Flammability rating according to UL 94	V0	



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Contact surface material	hard-silver plated				
Cable/line					
Single wire, cross section	0.5 mm² 16 mm²				
Stripping length of the individual wire	12 mm				
Halogen-free	yes				
Mechanical properties  Mechanical data					
Insertion/withdrawal cycles	≥ 50				
Environmental and real-life conditions  Ambient conditions					
Ambient temperature (operation)	-40 °C 100 °C				



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## **Approvals**

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. <b>91</b>	<b>cUL Recognized</b> Approval ID: E118976				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	45 A	20 - 6	-

71	<b>UL Recognized</b> Approval ID: E118976				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	55 A	20 - 6	-



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## Classifications

	ECLASS-13.0	27440192	
ETIM			
	ETIM 9.0	EC003557	
UNSPSC			
	UNSPSC 21.0	39121400	



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## Environmental product compliance

#### EU RoHS

Le tone			
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%		

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