

1605865

https://www.phoenixcontact.com/us/products/1605865

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Device connector front mounting with knurled nut, straight, Screw locking mechanism, M40, number of positions: 4+3+PE, contact connection type: Socket, Axial O-ring, 4x Ø4,2, shielded: yes, flange dimensions: 40 mm x 40 mm, degree of protection: IP67, cable diameter range: 0 mm ... 0 mm, number of positions: 8, connection method: Crimp connection, series: SM, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242014

### Commercial data

Item number	1605865
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBGN
Catalog page	Page 167 (C-2-2019)
GTIN	4046356255370
Weight per piece (including packing)	323 g
Weight per piece (excluding packing)	268.766 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

Notes
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General	Order crimp contacts 4 x Ø 2 mm, 4 x Ø 3.6 mm separately
afety 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.
	<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>
	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/o connector
	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>
	Operate the connector only when it is fully plugged in and interlocked.
	• 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 connector warms up in normal operation.



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	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).
ounting	
Mounting	4x Ø4,2
oduct properties	
Product type	Circular connectors (device side)
Number of positions	8
Connection profile	4+3+PE
Application	Power
Series	SM
Shielded	yes
Coding	Ν

### Dimensions

Housing

Flange dimensions	40 mm x 40 mm
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### Material specifications

Seal material	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
Housing material	Metal

### **Electrical properties**

### Contact

Contact diameter	3.6 mm
Max. current	70 A
Nominal voltage U <sub>N</sub>	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

Contact

Contact diameter	2 mm
Max. current	30 A
Nominal voltage U <sub>N</sub>	250 V
Overvoltage category	111
Degree of pollution	3



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Rated surge voltage	4 kV	
Connection data		
Conductor connection		
Connection method	Crimp connection	
Contact connection type	Socket	
Connector		
Туре	straight	
Connection 1		
Head design	Socket	
Cable/line		
External cable diameter	0 mm 0 mm	
Environmental and real-life conditions		
Ambient conditions		
Degree of protection	IP67	
Ambient temperature (operation)	-40 °C 125 °C	
Altitude	3000 m	



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### Classifications

### ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ETIM		
	ETIM 9.0	EC002635
UNSPSC		
	UNSPSC 21.0	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com