

1613433

https://www.phoenixcontact.com/us/products/1613433

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Coupler connector, straight, for standard and SPEEDCON interlock, M40, number of positions: 4+3+PE, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 20.5 mm ... 26.5 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.: 1242747

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- · Flexible use: reliably connect various cable diameters

Commercial data

Item number	1613433
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBGG
Catalog page	Page 166 (C-2-2019)
GTIN	4046356400251
Weight per piece (including packing)	450.7 g
Weight per piece (excluding packing)	132.7 g
Customs tariff number	85366990
Country of origin	DE



https://www.phoenixcontact.com/us/products/1613433



Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 2 mm, 4 x Ø 3.6 mm separately
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
	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.
	 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 ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting



1613433

https://www.phoenixcontact.com/us/products/1613433

	warnings (e.g. DIN EN ISO 13732-1:2008-12).	
lounting		
Thread type	0	
Thread type	U	
roduct properties		
Product type	Circular connector (cable-side)	
Series	SM	
Application	Power	
Number of positions	8	
Connection profile	4+3+PE	
Shielded	yes	
Coding	N	
Thread type	M40	
Data management status		
Article revision	12	
laterial specifications		
Seal material	FPM	
Housing material	Metal	
Housing material	Turned parts: copper zinc alloy (CuZn), aluminum (Al), die-cast parts: zinc (GD-Zn)	
Insulator material	PA 6.6	
Gasket and O-ring material	FPM	
Connection data Conductor connection Connection method	Crimp connection	
lectrical properties		
Contact		
Contact diameter	3.6 mm	
Max. current	70 A	
Nominal voltage U _N	630 V	
Overvoltage category	III	
Degree of pollution	3	
Rated surge voltage	6 kV	
Contact		
Contact diameter	2 mm	
Contact diamotor		
Max. current	30 A	
	30 A 250 V	
Max. current		



1613433

https://www.phoenixcontact.com/us/products/1613433

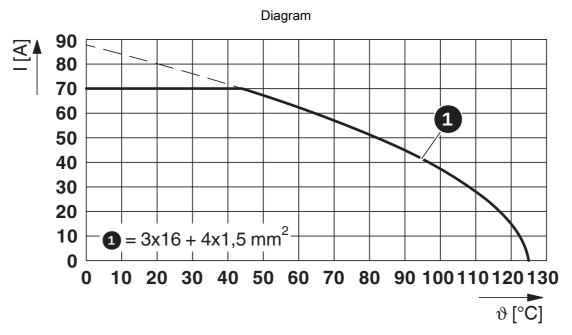
Rated surge voltage	4 kV			
Connector				
Туре	straight			
Cable/line				
External cable diameter	20.5 mm 26.5 mm			
Environmental and real-life conditions Ambient conditions				
Degree of protection	IP67			
Ambient temperature (operation)	-40 °C 125 °C			
Altitude	3000 m			



1613433

https://www.phoenixcontact.com/us/products/1613433

Drawings



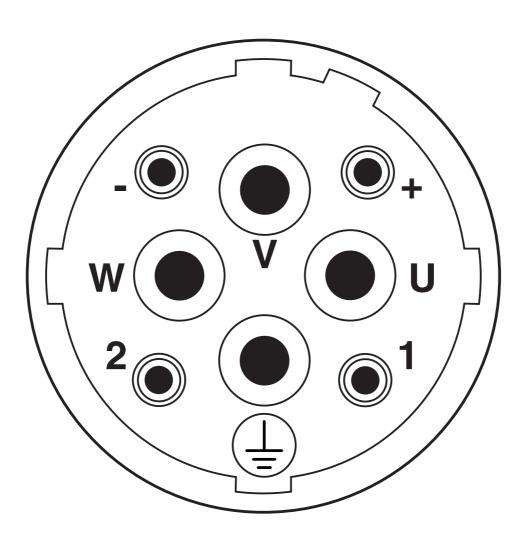
I = current strength, T = ambient temperature



https://www.phoenixcontact.com/us/products/1613433



Schematic diagram



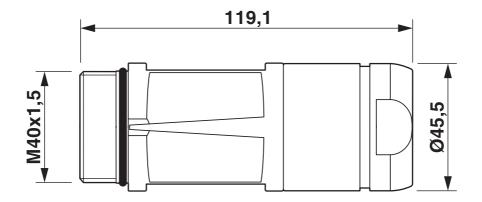
Connector pin assignment



https://www.phoenixcontact.com/us/products/1613433



Dimensional drawing



Dimensional drawing



1613433

https://www.phoenixcontact.com/us/products/1613433

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1613433

.71	cUL Recognized Approval ID: E153698-201	150903			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power		600 V	40 A	-	-
Signal		600 V	20 A	-	-

UL Recognized Approval ID: E153698-2	0150903			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	65 A	-	-
Signal	600 V	30 A	-	-

		_		
CUL	.us I	Reco	anızı	ea



1613433

https://www.phoenixcontact.com/us/products/1613433

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ETIM		
	ETIM 9.0	EC002635
UNS	SPSC	

39121400



1613433

https://www.phoenixcontact.com/us/products/1613433

Environmental product compliance

EU RoHS

Yes
6(b), 6(b)-II
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.
Lead(CAS: 7439-92-1)
8dd9d285-ba45-461b-afba-a9b455b56cb9

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

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