

1415294

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Device connector rear mounting, Power, 5-position, Socket, straight, M12-Standard, coding: K, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 2.50 mm², PEX litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239081

Your advantages

- · For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- · Mechanical tightening limitation for long-term-stable gasket
- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- · Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1415294
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQCHG
Catalog page	Page 284 (C-2-2019)
GTIN	4055626056234
Weight per piece (including packing)	62.5 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

otes	
Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Order information:	Lock nut is included in the scope of delivery
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 when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	Observe the corresponding technical data. You will find information: On the product On the packing label In the supplied documentation Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact
	 Use a protective cap to protect connectors that are not in use.

The suitable accessories are available online in the accessory



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	section of the product at phoenixcontact.com/products
	 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
	 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).
lounting	
Mounting type	Rear mounting M16 x 1.5 XL version, with flat nut, tightening limitation
Assembly note	XL version, with flat nut, tightening limitation
roduct properties	
Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	К
Thread type	M12
Data management status	
Article revision	11
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
laterial specifications	
Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires
lectrical properties	
Rated voltage in acc. with IEC 61076-2-101	630 V
	6 kV
Rated surge voltage	O KV
Rated surge voltage	6 kV



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Nominal current I _N	16 A
Test voltage	6 kV
Test voltage Core/Core	6 kV

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	2.5 mm ²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	К

Connection 2

_		
	Head design	free cable end

Cable/line

Cable length	0.2 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
Cable cross section	2.5 mm ²
Conductor material	Tin-plated Cu litz wires
AWG signal line	14
Material wire insulation	PE-X
Test voltage Core/Core	6 kV
Halogen-free	according to IEC 60754-1
Flame resistance	in acc. with UL FT-2
Other resistance	Hydrolysis-resistant
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)
	-25 °C 105 °C (Cable, flexible installation)

Environmental and real-life conditions



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Ambient conditions

Degree of protection	IP67
	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 105 °C (Cable, flexible installation)
	-40 °C 105 °C (cable, fixed installation)

Standards and regulations

Flame resistance	in acc. with UL FT-2
Other resistance	Hydrolysis-resistant

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

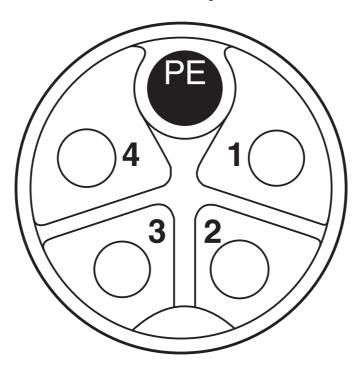


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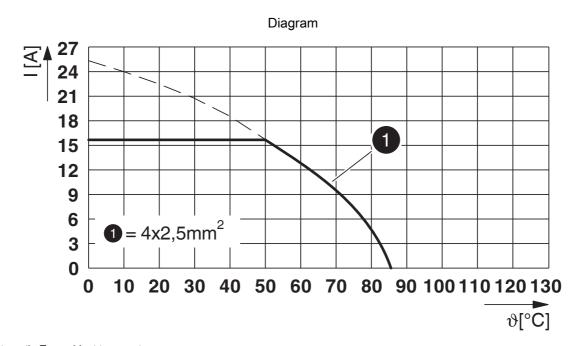
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Drawings

Schematic diagram



Pin assignment of M12 socket, 5-pos., K-coded, socket side view



I = current strength, T = ambient temperature



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1415294

c 911 us	cULus Recognized Approval ID: E468743-20180113					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		600 V	16 A	14 - 14	-	



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Classifications

ECLASS

	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ΕT	ETIM				
	ETIM 9.0	EC002635			
UNSPSC					
	UNSPSC 21.0	39121400			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes	
Exemption	6(c)	
China RoHS		
Environment friendly use period (EFUP)	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.	
EU REACH SVHC		
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)	
SCIP	56dee928-7de3-4589-b9d3-86652128459d	

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