

1162234

https://www.phoenixcontact.com/us/products/1162234

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Device connector, rear mounting, Power, 5-position, straight, M12, coding: K M12, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.5 m, 2.50 mm², PEX litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238537

### 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	1162234
Packing unit	1 pc
Minimum order quantity	25 pc
Sales key	AB27
Product key	ABQCGG
GTIN	4063151170691
Weight per piece (including packing)	165.2 g
Weight per piece (excluding packing)	165.2 g
Customs tariff number	85444290
Country of origin	DE



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### Technical data

#### Notes

otes	
General	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.
General	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.
	<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 when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	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
	<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>
	<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>
Mounting	
Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut
Connection method	Individual wires
Product properties	
Product properties	Circular connectors (dovice side)
Product type Sensor type	Circular connectors (device side)  Power
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	K
Thread type	M12
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
Material specifications	
Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA Zing die geet niekel pleted
Material for screw connection  Conductor material	Zinc die-cast, nickel-plated  Tin-plated Cu litz wires
Conductor material	Till-plated od litz wires
Electrical properties	
Rated voltage in acc. with IEC 61076-2-101	630 V
Rated surge voltage	6 kV
	6 kV
Nominal voltage U <sub>N</sub>	630 V
Nominal current I <sub>N</sub>	16 A
Test voltage	6 kV



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Test voltage Core/Core	6 kV
Connection data	
Conductor connection	
Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	2.5 mm²
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
Connector	
Connection 1	
Head cable outlet	straight
Head thread type	M12
Coding	К
Cable/line	
Cable length	0.5 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
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 85 °C (without mechanical actuation)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 105 °C
invironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP67
gc -c. pcccccccccc	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
· ····································	-40 °C 85 °C (without mechanical actuation)

-25 °C ... 105 °C



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	-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

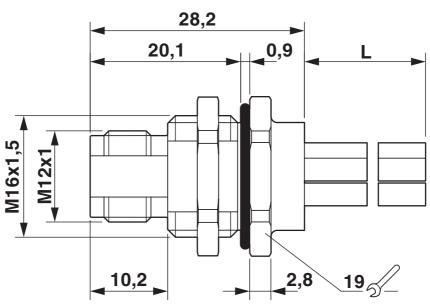


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## Drawings

## Dimensional drawing



Dimensional drawing

# Diagram 27 24 21 18 15 12 9 6 3 0 10 20 30 40 50 60 70 80 90 100 110 120 130

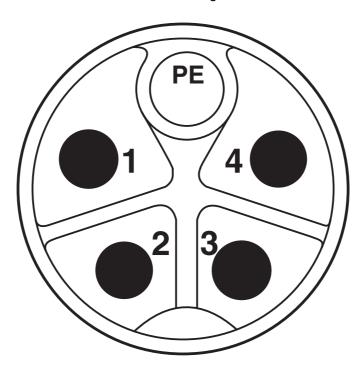
I = current strength, T = ambient temperature



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Schematic diagram



Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view



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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1162234



EAC

Approval ID: B.01687



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## Classifications

#### **ECLASS**

202.00			
	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 8.0	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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#### Accessories

PROT-M12 FS - Sealing cap

1560251

https://www.phoenixcontact.com/us/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

#### PROT-M12 FS-M - Sealing cap

1430488

https://www.phoenixcontact.com/us/products/1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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