# SACC-E-M12MSK-4PE-M16XL/0,2 - Device connector front mounting



1415291

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Device connector front mounting, Power, 5-position, Pin, straight, M12-Standard, coding: K, on free cable end, Front mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 2.50 mm<sup>2</sup>, PEX litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239078

## 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	1415291
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCEG
Catalog page	Page 284 (C-2-2019)
GTIN	4055626056203
Weight per piece (including packing)	56.9 g
Weight per piece (excluding packing)	45.6 g
Customs tariff number	85444290
Country of origin	DE



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# Technical data

### Notes 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. 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 gualified 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: 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 • Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products



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• 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).

#### Mounting

Mounting type	Front mounting M16 x 1.5 Tightening limitation
Assembly instructions	Tightening limitation

### **Product 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

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	Ni/Au
Contact carrier material	PA
Material for screw connection	CuZn alloy, nickel-plated
Conductor material	Tin-plated Cu litz wires

#### **Electrical properties**

Rated voltage in acc. with IEC 61076-2-101	630 V
Rated surge voltage	6 kV
	6 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
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
onnection data	
Conductor connection	
Connection method	Individual wires
	Pin
Contact connection type Conductor cross section	2.5 mm <sup>2</sup>
Conductor cross section	2.5 mm
lechanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
connector	
onnector	
Connection 1	
Head design	Pin
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	К
Connection 2	
Head design	free cable end
able/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 <sup>2</sup>
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 Ambient temperature (operation)	Hydrolysis-resistant
Ampient temperature (operation)	-40 °C 105 °C (cable, fixed installation)

#### Environmental and real-life conditions

Ambient	conditions
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Degree of protection	IP67
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	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)
ndards and regulations	
Flame resistance	in acc. with UL FT-2
-	in acc. with UL FT-2 Hydrolysis-resistant
Flame resistance	
Flame resistance Other resistance	
Flame resistance Other resistance	Hydrolysis-resistant

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# Classifications

## ECLASS

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ΕT	ETIM		
	ETIM 9.0	EC002635	
UN	SPSC		
	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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