

# SACC-E-M12MSL4CONM16XL/0,2-1,5 - Device connector front mounting



1425631

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Device connector front mounting, Power, 4-position, Pin, straight, M12-Standard, coding: L, on free cable end, Front mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 1.31 mm<sup>2</sup>, UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239545

## 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	1425631
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCEG
Catalog page	Page 285 (C-2-2019)
GTIN	4055626425801
Weight per piece (including packing)	27.7 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Notes

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.
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### Mounting

Mounting type	Front mounting M16 x 1.5 XL version, tightening limitation
Assembly note	XL version, tightening limitation

### Product properties

Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	L
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	Bare Cu litz wires

### Electrical properties

Rated surge voltage	1.5 kV
	1.5 kV AC/DC
Nominal voltage $U_N$	63 V DC
Nominal current $I_N$	12 A
Test voltage	1.5 kV
Test voltage Core/Core	3 kV

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## Connection data

### Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	1.31 mm <sup>2</sup>

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	L

### Connection 2

Head design	free cable end
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## Cable/line

Cable length	0.2 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2 mm
Single wire, color	brown 1, white 2, blue 3, black 4
Cable cross section	1.31 mm <sup>2</sup>
Conductor material	Bare Cu litz wires
AWG signal line	16
Material wire insulation	mPPE
Test voltage Core/Core	3 kV
Halogen-free	yes
Flame resistance	in acc. to UL 1581 VW1
Ambient temperature (operation)	-40 °C ... 85 °C (without mechanical actuation) -40 °C ... 85 °C (without mechanical actuation) -25 °C ... 105 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
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Ambient temperature (operation)	IP65/IP67 -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)
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## Standards and regulations

Flame resistance	in acc. to UL 1581 VW1
<b>M12</b>	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

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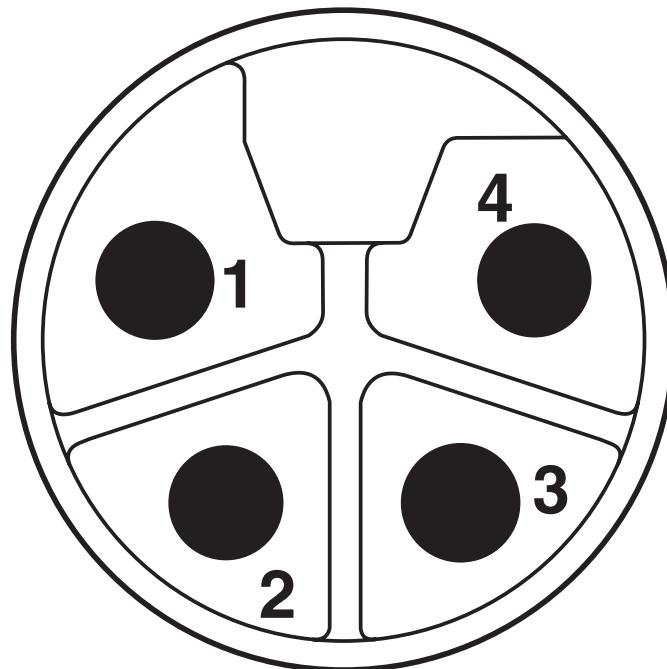


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## Drawings

Schematic diagram



Pin assignment of M12 connector, 4-pos., L-coded, pin side view

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## Approvals

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cULus Recognized				
		Approval ID: E468743-20180113		
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	63 V	12 A	16 - 16	-

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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### 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.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	b627ab5d-4fb1-497a-8a02-649833d99639

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## Accessories

### SACC-E-MU-M16 - Flat nut

1504097

<https://www.phoenixcontact.com/us/products/1504097>

Flat nut, Screw mounting, M16 x 1.5, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239863



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### 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



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## 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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