

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting



1415295

<https://www.phoenixcontact.com/us/products/1415295>

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.



Device connector front mounting, Power, 5-position, Pin, straight, M12-Standard, L-coding, on free cable end, Individual wires, cable length: 0.2 m, 2.50 mm<sup>2</sup>, PEX litz wire, potted, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## 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	1415295
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCEG
GTIN	4055626056241
Weight per piece (including packing)	47.3 g
Weight per piece (excluding packing)	44.933 g
Customs tariff number	85444290
Country of origin	DE

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting



1415295

<https://www.phoenixcontact.com/us/products/1415295>

## 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.
Notes on operation	FE not connected to metal parts that can be touched, no protective function
General	Contact connection method: Crimp connection

### Mounting

Mounting type	Front mounting (M16 x 1.5, XL variant, tightening limitation)
Tightening torque	1.5 Nm ... 2 Nm

### Product properties

Product type	Circular connectors (device side)
Application	Power
Sensor type	Power
Number of positions	5
Connection profile	4+FE
No. of cable outlets	1
No. of power contacts	4
Shielded	no
Coding	L
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Material specifications

Material Molding compound	PUR (potted)
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

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting



1415295

<https://www.phoenixcontact.com/us/products/1415295>

Rated surge voltage	1.5 kV
Nominal voltage $U_N$	63 V DC
Nominal current $I_N$	16 A
Test voltage	1.5 kV
Test voltage Core/Core	6 kV

## Connection data

### Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross-section	2.5 mm <sup>2</sup>
Tightening torque	1.5 Nm ... 2 Nm

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
-----------------------------	-------

## 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
-------------	----------------

## Cable/line

Cable length	0.2 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	brown 1, white 2, blue 3, black 4, pink FE
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	Hydrolysis-resistant
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting



1415295

<https://www.phoenixcontact.com/us/products/1415295>

	-25 °C ... 105 °C (Cable, flexible installation)
--	--

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
Ambient temperature (operation) (Cable, flexible installation)	-25 °C ... 105 °C (Cable, flexible installation)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 105 °C (cable, fixed installation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

Flame resistance	in acc. with UL FT-2
Other resistance	Hydrolysis-resistant
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

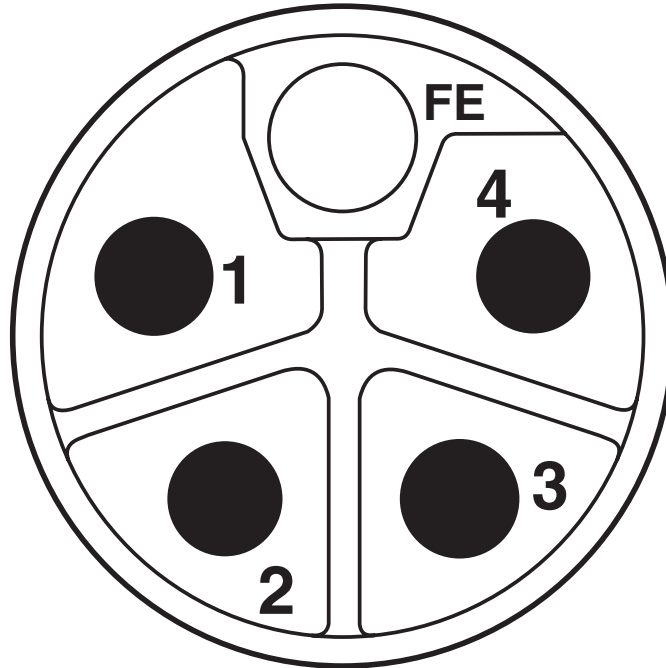
# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting

1415295

<https://www.phoenixcontact.com/us/products/1415295>

## Drawings

Schematic diagram



Pin assignment of M12 connector, 5-pos., L-coded, pin side view

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting




1415295

<https://www.phoenixcontact.com/us/products/1415295>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1415295>

 <b>cULus Recognized</b> Approval ID: E468743-20180113		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine					
		63 V	16 A	14	-

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting



1415295

<https://www.phoenixcontact.com/us/products/1415295>

## Classifications

### ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

### ETIM

ETIM 10.0	EC003570
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# SACC-E-M12MSL-4FE-M16XL/0,2 - Device connector front mounting



1415295

<https://www.phoenixcontact.com/us/products/1415295>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - 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](mailto:info@phoenixcon.com)