

# SACC-DSI-M12MSL-4CON-M16XL/1,0 - Device connector rear mounting



1163034

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Device connector rear mounting, Power, 4-position, Pin, straight, M12, L-coding, on free cable end, Individual wires, cable length: 1 m, 2.50 mm<sup>2</sup>, PEX litz wire, potted, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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	1163034
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCGG
GTIN	4063151173715
Weight per piece (including packing)	135 g
Weight per piece (excluding packing)	132.268 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.
Order information:	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting (M16 x 1.5, XL version, with flat nut, tightening limitation)
Tightening torque	1.5 Nm ... 2 Nm

### Product properties

Product type	Circular connectors (device side)
Application	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

Material Housing	GD-Zn
Material Housing surface	Ni
Material Molding compound	PUR (potted)
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Conductor material	Tin-plated Cu litz wires

### Electrical properties

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

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Test voltage	1.5 kV
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## 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

## Connector

### Connection 1

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

### Connection 2

Head design	free cable end
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## Cable/line

Cable length	1 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	brown 1, white 2, blue 3, black 4
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
Halogen-free	according to IEC 60754-1
Flame resistance	in acc. with UL FT-2
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	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 85 °C (without mechanical actuation)
Ambient temperature (operation) (Cable, flexible installation)	-25 °C ... 105 °C (Cable, flexible installation)

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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
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

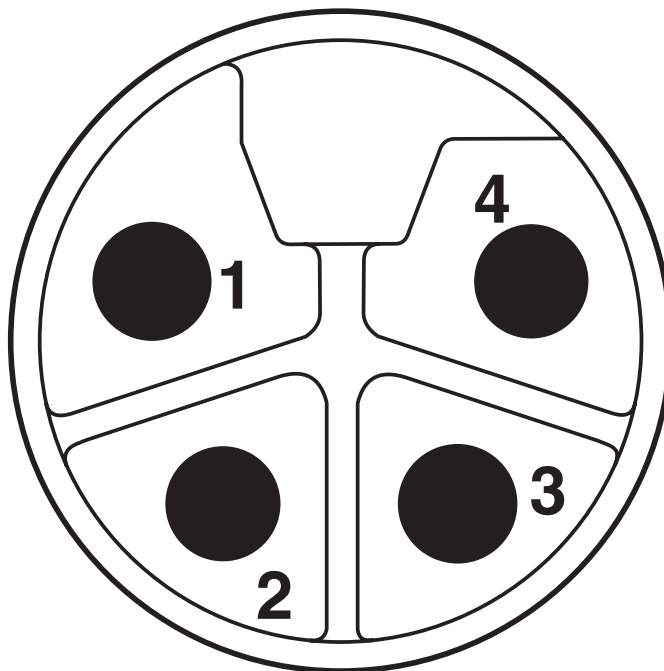
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## Drawings

Schematic diagram



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

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## Approvals

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

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## Classifications

### ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

### ETIM

ETIM 10.0	EC003570
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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	10725161-ced0-4c37-bd56-8c7879c1aa68

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