

# SACC-DSI-M12MSL-4FE-M16XL/0,2 - Device connector rear mounting

1415297

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Device connector rear 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

- 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
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut
- SPEEDCON fast locking system reduces cabling times

## Commercial data

Item number	1415297
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCGG
GTIN	4055626056265
Weight per piece (including packing)	51.9 g
Weight per piece (excluding packing)	48.799 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Notes

Order information:	Lock nut is included in the scope of delivery
Notes on operation	FE not connected to metal parts that can be touched, no protective function

### Mounting

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

### 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 Housing	GD-Zn
Material Housing surface	Ni
Material Molding compound	PUR (potted)
Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Conductor material	Tin-plated Cu litz wires

### Electrical properties

Rated voltage in acc. with IEC 61076-2-101	63 V
Rated surge voltage	1.5 kV

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Rated surge voltage	1.5 kV AC/DC
Nominal voltage $U_N$	63 V
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 (Installation-side)

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

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## 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 61076-2-101

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## Drawings

Schematic diagram



Pin assignment of M12 connector, 5-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, No exemptions
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### 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%
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