

# SACC-DSI-M12MST-4P-M16XL/1,0 - Device connector rear mounting



1162539

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Device connector rear mounting, Power, 4-position, Pin, straight, M12, T-coding, on free cable end, Individual wires, cable length: 0.5 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.: 1238550

## 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	1162539
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCGG
GTIN	4063151173135
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	74.52 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
Tightening torque	0.8 Nm ... 1.3 Nm (Installation-side)

### Product properties

Product type	Circular connectors (device side)
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	T
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	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Bare Cu litz wires

### Electrical properties

Rated surge voltage	1.5 kV
Rated surge voltage	1.5 kV AC/DC
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage $U_N$	63 V
Nominal current $I_N$	12 A
Test voltage	1.5 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>
Tightening torque	0.8 Nm ... 1.3 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
Coding	T

### Connection 2

Head design	free cable end
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## Cable/line

Cable length	0.5 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2 mm
Single wire, color	black, brown, blue, white
Cable cross section	1.31 mm <sup>2</sup>
Conductor material	Bare Cu litz wires
AWG signal line	16
Material wire insulation	mPPE
Halogen-free	yes
Flame resistance	in acc. to UL 1581 VW1
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation) -20 °C ... 105 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67 IP65/IP67
Ambient temperature (operation) (male connector/female)	-25 °C ... 85 °C (Plug / socket)

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connector)	
Ambient temperature (operation) (Cable, flexible installation)	-20 °C ... 105 °C (Cable, flexible installation)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 105 °C (cable, fixed installation)

## Standards and regulations

Flame resistance	in acc. to UL 1581 VW1
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

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## Drawings

Schematic diagram



Connector pin assignment of M12 plug, 4-pos., T-coded, view of pin side

Circuit diagram



Contact assignment of the M12 plug

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## Classifications

### ECLASS

ECLASS-13.0	27440116
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### 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.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	8f76c4b4-d564-4ad8-9706-ba40ce07e8e5

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)