

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

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, rear mounting, Universal, 12-position, straight, M12-SPEEDCON, coding: A, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 1 m, 0.14 mm<sup>2</sup>, TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238243

## 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	1066287
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AB24
Product key	ABQCGB
GTIN	4055626732367
Weight per piece (including packing)	44.1 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

## Technical data

### Notes

General	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.
General	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut
Connection method	Individual wires

### Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	12
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	II
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 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires

### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	30 V
Nominal current $I_N$	1.5 A

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

Max. conductor resistance	57.6 mΩ/m
---------------------------	-----------

## Connection data

### Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.14 mm²
Tightening torque	3 Nm 4 Nm

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

### Connection 2

Head design	free cable end
-------------	----------------

## Cable/line

Cable length	1 m
Cable type	TPE litz wire
Signal type/category	Universal
Wire diameter incl. insulation	1.1 mm ±0.05 mm
Single wire, color	brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 57.6 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation) -25 °C ... 85 °C (Cable, flexible installation)

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
	IP65/IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

SACC-DSI-M12MS-12CON-M16/1,0 - Device  
connector, rear mounting

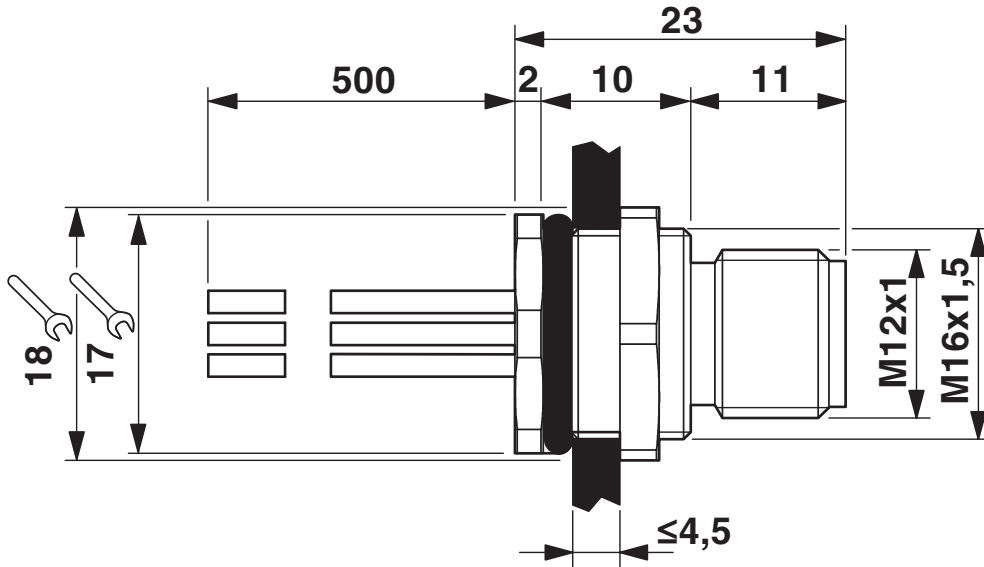


1066287

<https://www.phoenixcontact.com/us/products/1066287>

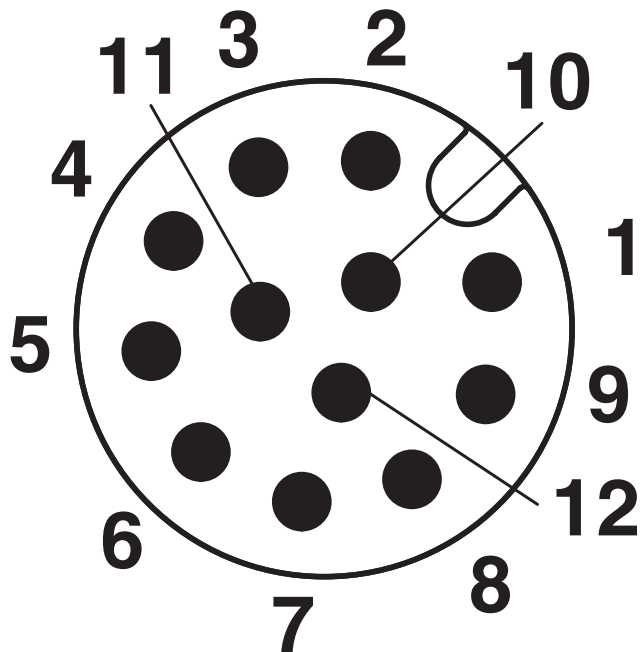
## Drawings

## Dimensional drawing



## Dimensional drawing

### Schematic diagram



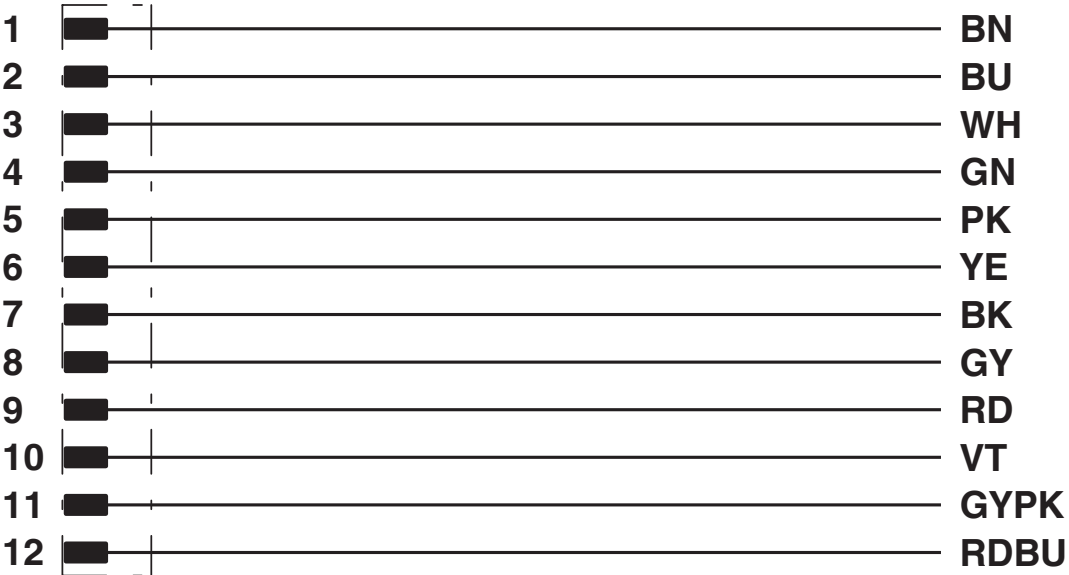
Pin assignment M12 male connector, 12-pos., male side view

SACC-DSI-M12MS-12CON-M16/1,0 - Device  
connector, rear mounting



1066287  
<https://www.phoenixcontact.com/us/products/1066287>

Circuit diagram



# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1066287>



### UL Recognized

Approval ID: E118976-20100522

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	1.5 A	- 26	-



### EAC

Approval ID: B.01687



### cULus Recognized

Approval ID: E221474-20140616

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	1.5 A	- 26	-

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002635
----------	----------

### UNSPSC

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



# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287  
<https://www.phoenixcontact.com/us/products/1066287>

## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

## Accessories

### 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

---

### 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

# SACC-DSI-M12MS-12CON-M16/1,0 - Device connector, rear mounting



1066287

<https://www.phoenixcontact.com/us/products/1066287>

## SACC-M16-SEAL CLM - Flat gasket

1430394

<https://www.phoenixcontact.com/us/products/1430394>

M16 flat gasket for M12 flush-type connectors with M16 fastening thread



---

Phoenix Contact 2023 © - 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)