

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

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, 5-position, Socket, straight, M12-Standard, coding: A, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.5 m, 0.34 mm<sup>2</sup>, TPE 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	1239277
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQCHB
GTIN	4063151474591
Weight per piece (including packing)	36.2 g
Weight per piece (excluding packing)	36.2 g
Country of origin	DE

# SACC-DSI-M12FS-5CON-M16/0,5X - Device

## connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

### 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

#### Safety note

Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li><li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li>• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none"><li>o On the product</li><li>o On the packing label</li><li>o In the supplied documentation</li><li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li><li>• Only use tools recommended by Phoenix Contact</li><li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory</li></ul>
-------------	--

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

section of the product at [phoenixcontact.com/products](https://www.phoenixcontact.com/products)

- Ensure that the protective or functional ground has been properly connected.

- VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector

- The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Mounting

Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly note	With flat nut

## Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

## Insulation characteristics

Overvoltage category	II
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	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	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	60 V (AC)
	60 V (DC)
Nominal current I <sub>N</sub>	4 A

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

Transmission medium	Copper
Max. conductor resistance	57.6 mΩ/m

## Connection data

### Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.34 mm²
Tightening torque	3 Nm ... 4 Nm (Installation-side)

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	A

### Connection 2

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

## Cable/line

Cable length	0.5 m
Cable type	TPE litz wire
Signal type/category	Universal
Wire diameter incl. insulation	1.2 mm ±0.07 mm
Single wire, color	black, brown, blue, white, gray
Cable cross section	0.34 mm²
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Material wire insulation	TPE
Thickness, insulation	0.21 mm
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)

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

	-25 °C ... 85 °C (Cable, flexible installation)
--	---

## 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)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

### M12

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

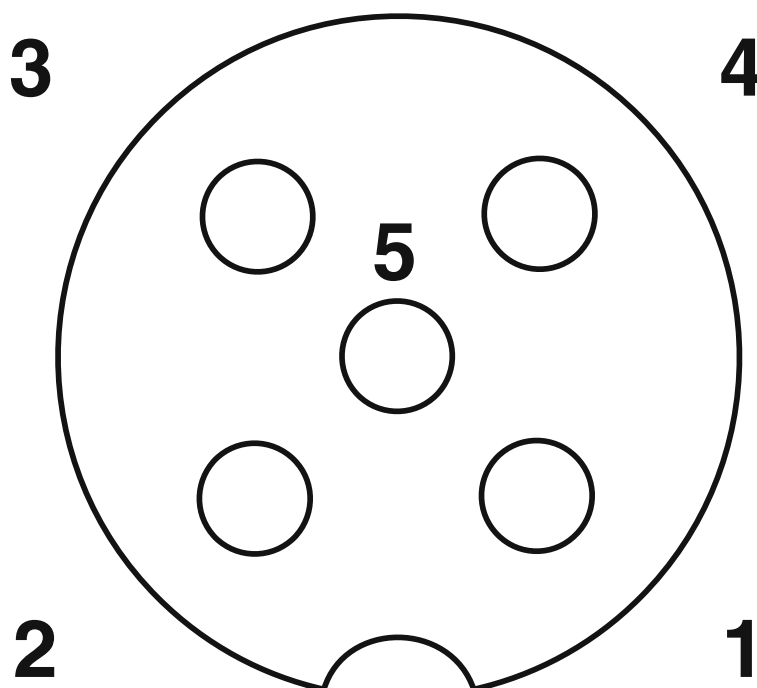
# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting

1239277

<https://www.phoenixcontact.com/in/products/1239277>

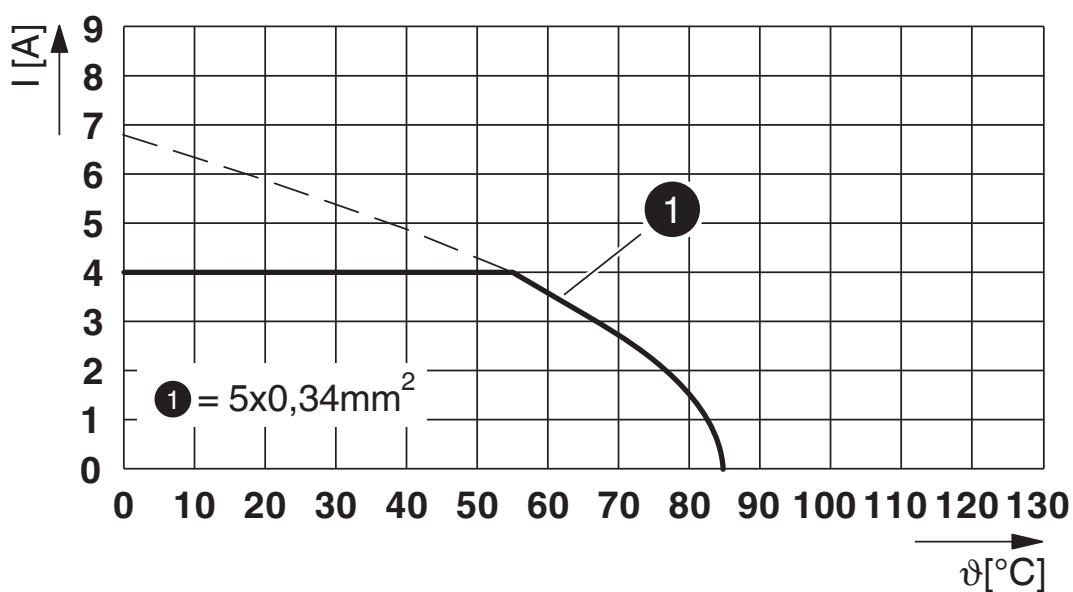
## Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

Diagram



I = current strength, T = ambient temperature

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

Circuit diagram



Contact assignment of the M12 socket


SACC-DSI-M12FS-5CON-M16/0,5X - Device  
connector rear mounting





1239277  
<https://www.phoenixcontact.com/in/products/1239277>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1239277>

<div> <b>cUL Recognized</b> Approval ID: E118976-20100522</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	22	-

<div> <b>UL Recognized</b> Approval ID: E118976-20100522</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	22	-

<div> <b>cULus Recognized</b> Approval ID: E221474-20140616</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	22 - 20	-

<b>cULus Recognized</b>				
-------------------------	--	--	--	--

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277  
<https://www.phoenixcontact.com/in/products/1239277>

## Classifications

### ECLASS

ECLASS-13.0	27440103
-------------	----------

### ETIM

ETIM 9.0	EC001262
----------	----------

1239277  
<https://www.phoenixcontact.com/in/products/1239277>

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%

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

## Accessories

### PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/in/products/1680539>



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

---

### PROT-M12 SH - Screw plug

1503302

<https://www.phoenixcontact.com/in/products/1503302>



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

# SACC-DSI-M12FS-5CON-M16/0,5X - Device connector rear mounting



1239277

<https://www.phoenixcontact.com/in/products/1239277>

## PROT-M12 FB - Screw plug

1555538

<https://www.phoenixcontact.com/in/products/1555538>



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

---

## SACC-M16-SEAL CLM - Flat gasket

1430394

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



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

---

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)