

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

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, PUR halogen-free, black-gray RAL 7021, shielded, Pin, straight, M12-SPEEDCON, coding: A, on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 1 m, PUR halogen-free black, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239254

Your advantages

- Preassembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1419409
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB
Product key	ABQDGA
Catalog page	Page 51 (C-2-2019)
GTIN	4046356533287
Weight per piece (including packing)	76.5 g
Weight per piece (excluding packing)	64.3 g
Customs tariff number	85444290
Country of origin	DE

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

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">• 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.• 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.• The products are suitable for applications in plant, controller, and electrical device engineering.• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.• Assembled products may not be manipulated or improperly opened.• 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 phoenixcontact.com/products).• When using the product in direct connection with third-party manufacturers, the user is responsible.• For operating voltages > 50 V AC, conductive connector housings must be grounded• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none">o On the producto On the packing labelo In the supplied documentationo Online at phoenixcontact.com/products under the product• Only use tools recommended by Phoenix Contact• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

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	yes
Coding	A
Thread type	M12

Data management status

Article revision	10
------------------	----

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	60 V

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

Nominal current I_N

4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)

Connection data

Conductor connection

Connection method

Cable connection

Contact connection type

Pin

Tightening torque

3 Nm ... 4 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles

> 100

Connector

Connection 1

Head design

Pin

Head cable outlet

straight

Head thread type

M12

Head locking type

SPEEDCON

Coding

A

Connection 2

Head design

free cable end

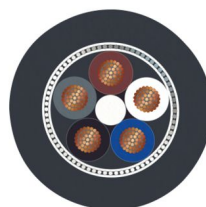
Cable/line

Cable length

1 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight

43 kg/km

UL AWM Style

20549 / 10493 (80°C/300 V)

Number of positions

5

Shielded

yes

Cable type

PUR halogen-free black [PUR]

Conductor structure signal line

42x 0.10 mm

AWG signal line

22

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

Conductor cross section	5x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	5.25 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black, gray
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.50 mm
Overall twist	5 wires around filler to the core
Optical shield covering	80 %
Max. conductor resistance	max. 57 Ω/km (at 20 °C)
Insulation resistance	70 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V (at 20 °C)
Test voltage Core/Core	3000 V (at 20 °C)
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm (up to +60 °C)
Max. bending cycles	10000000
Bending radius	52 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
Flame resistance	in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant Resistant to salt water partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) abrasion-resistant
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish Low adhesion surface
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

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)

Standards and regulations

M12

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

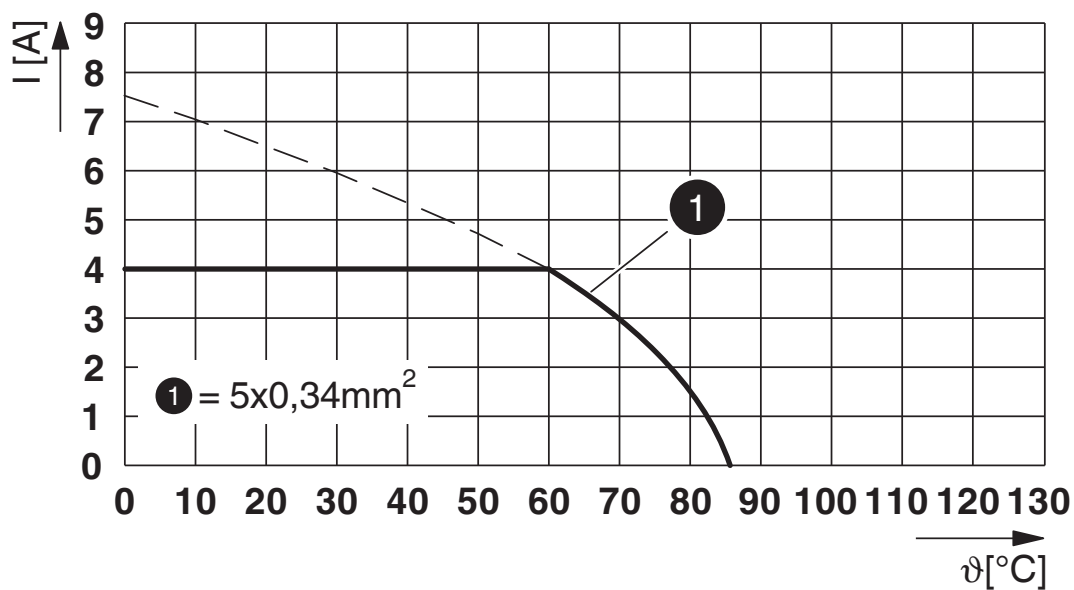
SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting

1419409

<https://www.phoenixcontact.com/ie/products/1419409>

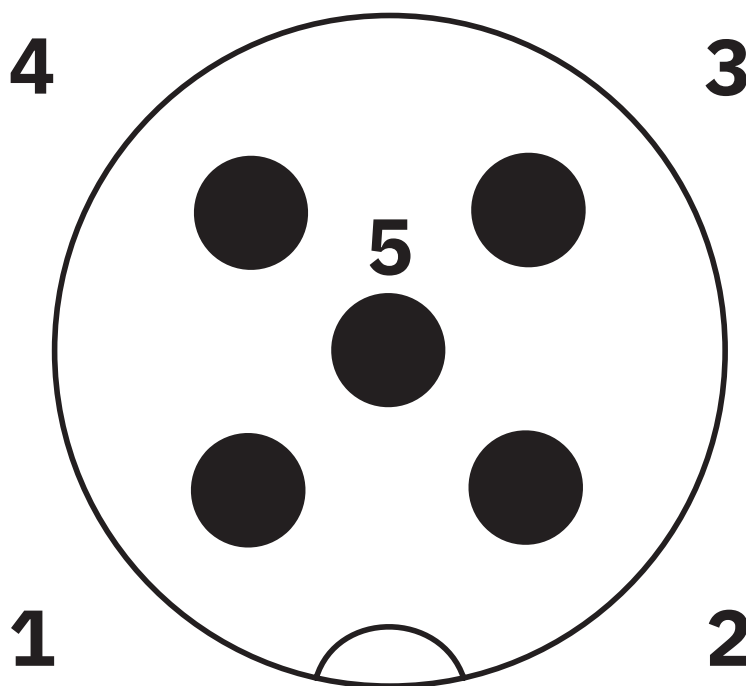
Drawings

Diagram



I = current strength, T = ambient temperature

Schematic diagram



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

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

Circuit diagram




SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting




1419409
<https://www.phoenixcontact.com/ie/products/1419409>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ie/products/1419409>

<div> cUL Recognized Approval ID: E221474-20220907</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	1.5 A	-	-

<div> UL Recognized Approval ID: E221474-20220907</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	-	-

cULus Recognized				
-------------------------	--	--	--	--

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409
<https://www.phoenixcontact.com/ie/products/1419409>

Classifications

ECLASS

ECLASS-11.0	27440103
ECLASS-12.0	27440103
ECLASS-13.0	27440103

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

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

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409
<https://www.phoenixcontact.com/ie/products/1419409>

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	0ce52b82-9fc0-41f1-a175-0df71003a757

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

Accessories

SACC-M16-SEALING PLUG SET - Screw plug

1453368

<https://www.phoenixcontact.com/ie/products/1453368>



Screw plug, Rear mounting, M16 x 1.5, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239800

PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/ie/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

SACCBP-MS-5CON-M16/1,0-PUR SCO - Device connector rear mounting



1419409

<https://www.phoenixcontact.com/ie/products/1419409>

PROT-M12 FS-M - Sealing cap

1430488

<https://www.phoenixcontact.com/ie/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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact (Ireland) Ltd
C6 The Exchange, Calmount Park, Ballymount
Dublin 12, D12 XE18
+353/1/2051-300
info@phoenixcontact.ie