

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

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, PVC/PVC, black RAL 9005, shielded, Pin, straight, M12-SPEEDCON, coding: A, on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 2 m, 0.14 mm², PVC black, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239768

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	1442230
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQDGA
Catalog page	Page 51 (C-2-2019)
GTIN	4046356533386
Weight per piece (including packing)	161.7 g
Weight per piece (excluding packing)	157.8 g
Customs tariff number	85444290
Country of origin	DE

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

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 M16 x 1.5 Thread with flat nut
Assembly note	Thread with flat nut

Product properties

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

Data management status

Article revision	07
------------------	----

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
Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

Nominal voltage U_N	30 V
Nominal current I_N	1.5 A
Max. conductor resistance	142 Ω /km

Connection data

Conductor connection

Connection method	Cable connection
Contact connection type	Pin
Conductor cross section	6x 2x 0.14 mm ²
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	2 m
Cable type	PVC black
Short symbol	PVC
Signal type/category	Universal
External cable diameter	7.00 mm \pm 0.03 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Wire diameter incl. insulation	1 mm \pm 0.05 mm
Single wire, color	white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue
Cable cross section	6x 2x 0.14 mm ²
Material, inner sheath	PVC
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	18x 0.10 mm
Material wire insulation	PVC

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

Thickness, insulation	0.21 mm
Overall twist	Six pairs around the filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
Nominal voltage, cable	300 V
Test voltage, cable	1500 V AC
Cable resistance	142 Ω/km (at 20 °C)
Smallest bending radius, fixed installation	42 mm
Smallest bending radius, movable installation	105 mm
Resistance to oil	in accordance with DIN EN 60811-404
Flame resistance	IEC 60332-1-2, IEC 60332-1, FT1, VW-1
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation) -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)
Resistance to oil	in accordance with DIN EN 60811-404

Standards and regulations

Flame resistance	IEC 60332-1-2, IEC 60332-1, FT1, VW-1
Resistance to oil	in accordance with DIN EN 60811-404
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10

M12

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

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting

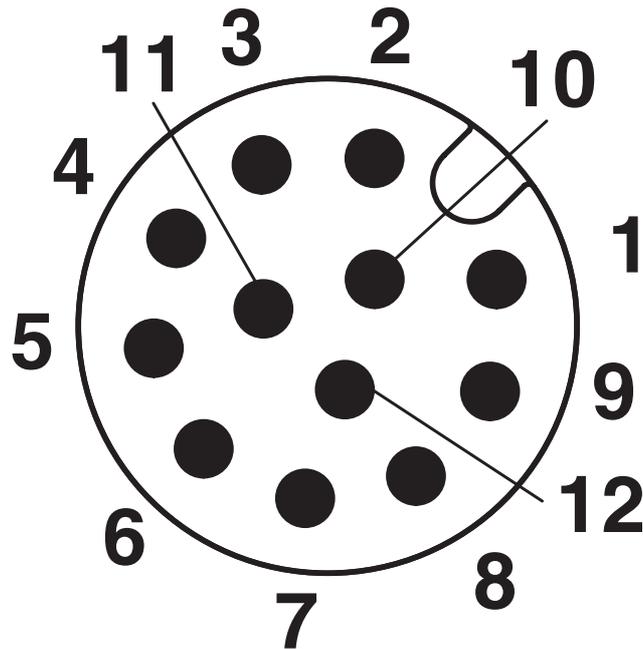


1442230

<https://www.phoenixcontact.com/pc/products/1442230>

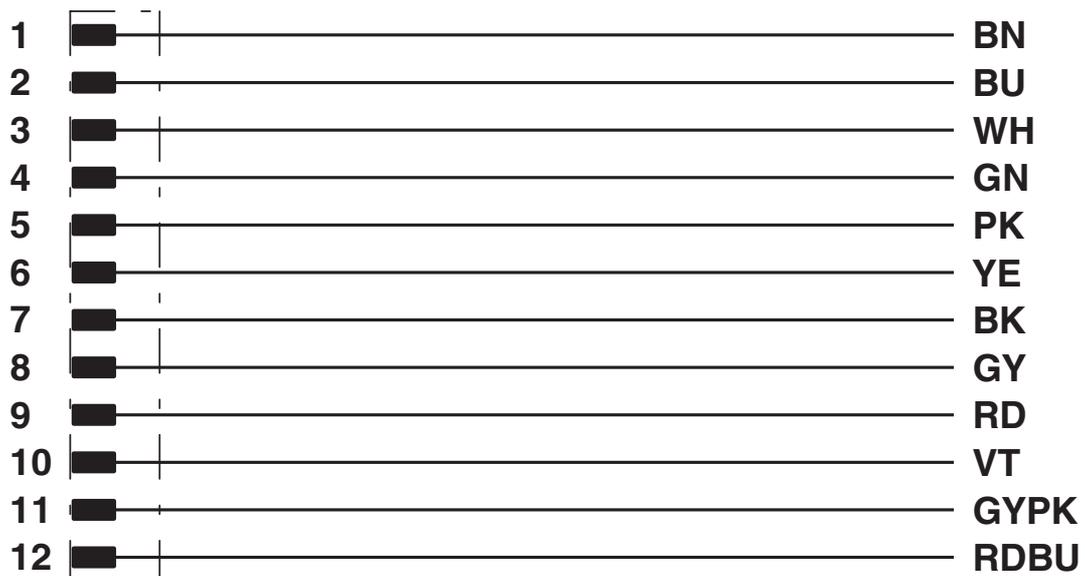
Drawings

Schematic diagram



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

Circuit diagram



SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1442230>

 cUL Recognized Approval ID: E221474-20220907				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	1.5 A	-	-

 UL Recognized Approval ID: E221474-20220907				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	1.5 A	-	-

cULus Recognized

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SACCBP-MS-12CON-M16/2,0-PVCSCO - Device connector rear mounting



1442230

<https://www.phoenixcontact.com/pc/products/1442230>

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	b3224658-094e-40f4-8bbc-7bd0a9f60501

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

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com