

# SAC-5P-M12MS/3,0-PUR SO V2A - Sensor/actuator cable



1699876

<https://www.phoenixcontact.com/us/products/1699876>

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.



Sensor/actuator cable, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on free cable end, cable length: 3 m

## Commercial data

Item number	1699876
Packing unit	5 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CDA
GTIN	4017918571917
Weight per piece (including packing)	115.84 g
Weight per piece (excluding packing)	171.56 g
Customs tariff number	85444290
Country of origin	PL

# SAC-5P-M12MS/3,0-PUR SO V2A - Sensor/actuator cable

1699876

<https://www.phoenixcontact.com/us/products/1699876>

## Technical data

### Product properties

Product type	Sensor/actuator cable
No. of cable outlets	1
Shielded	no
Coding	A

### Electrical properties

Nominal voltage $U_N$	48 V AC
	60 V DC

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
-----------------------------	------------

### Connector

#### Connection 1

Type	Plug straight M12
Coding type	A

#### Connection 2

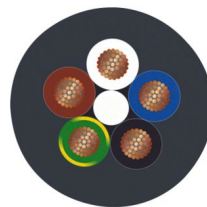
Type	free cable end
------	----------------

### Cable/line

Cable length	3 m
--------------	-----

#### PUR halogen-free black [PUR]

##### Dimensional drawing



Cable weight	33 kg/km
UL AWM Style	20549
Number of positions	5
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22

# SAC-5P-M12MS/3,0-PUR SO V2A - Sensor/actuator cable



1699876

<https://www.phoenixcontact.com/us/products/1699876>

Conductor cross-section	5x 0.34 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.27 mm 0.05 mm (Signal line)
External cable diameter	4.55 mm ±0.15 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, green-yellow
Thickness, insulation	approx. 0.50 mm
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 16 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V
Test voltage	3000 V
Smallest bending radius, fixed installation	23 mm
Smallest bending radius, movable installation	46 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 46 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥5000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
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)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

# SAC-5P-M12MS/3,0-PUR SO V2A - Sensor/actuator cable



1699876

<https://www.phoenixcontact.com/us/products/1699876>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1699876>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387

# SAC-5P-M12MS/3,0-PUR SO V2A - Sensor/actuator cable



1699876

<https://www.phoenixcontact.com/us/products/1699876>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
-----------	----------

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

# SAC-5P-M12MS/3,0-PUR SO V2A - Sensor/actuator cable



1699876

<https://www.phoenixcontact.com/us/products/1699876>

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - 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)