

# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable



1504893

<https://www.phoenixcontact.com/us/products/1504893>

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, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on free cable end, cable length: 0.5 m

## Commercial data

Item number	1504893
Packing unit	1 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	BF01
Product key	BF1BBA
GTIN	4017918847746
Weight per piece (including packing)	21.02 g
Weight per piece (excluding packing)	15 g
Customs tariff number	85444290
Country of origin	DE

# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable



1504893

<https://www.phoenixcontact.com/us/products/1504893>

## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

### Material specifications

Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

### Electrical properties

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	4 A
Max. conductor resistance	77.6 $\Omega/\text{m}$

### Mechanical properties

#### Mechanical data

Max. bending cycles	4000000
---------------------	---------

### Signaling

Status display	No
Status display present	No

### Connector

#### Connection 1

Type	Plug straight M8
Number of positions	3
Coding type	A
Number of positions	3

#### Connection 2

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

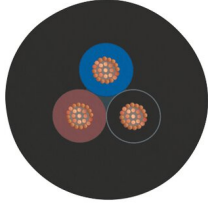
# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable



1504893

<https://www.phoenixcontact.com/us/products/1504893>

## Cable/line

Cable length	0.5 m
PUR halogen-free black [PUR]	
Dimensional drawing	
Cable weight	18 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	3x 0.25 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	3.6 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, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.5 mm
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	18 mm
Smallest bending radius, movable installation	36 mm
Max. bending cycles	10000000
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 hydrolysis and microbe resistant

# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable



1504893

<https://www.phoenixcontact.com/us/products/1504893>

Other resistance	Highly resistant to acids, alkaline solutions and solvents
	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
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable

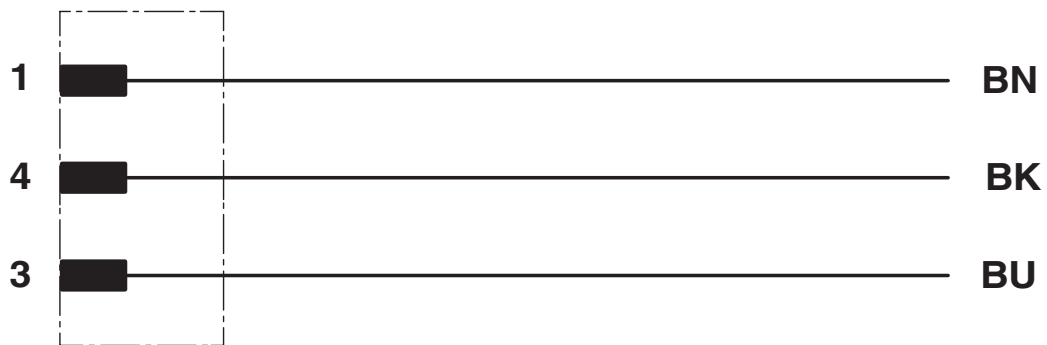


1504893

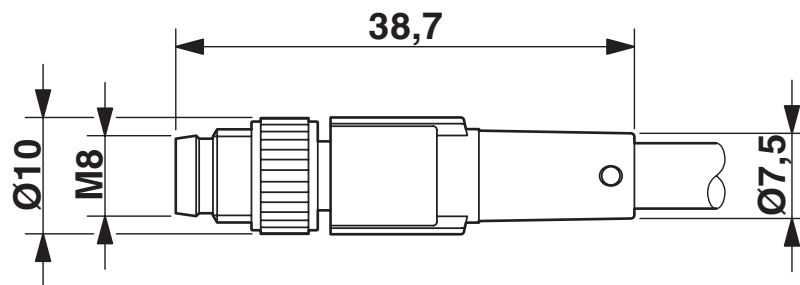
<https://www.phoenixcontact.com/us/products/1504893>

## Drawings

Circuit diagram

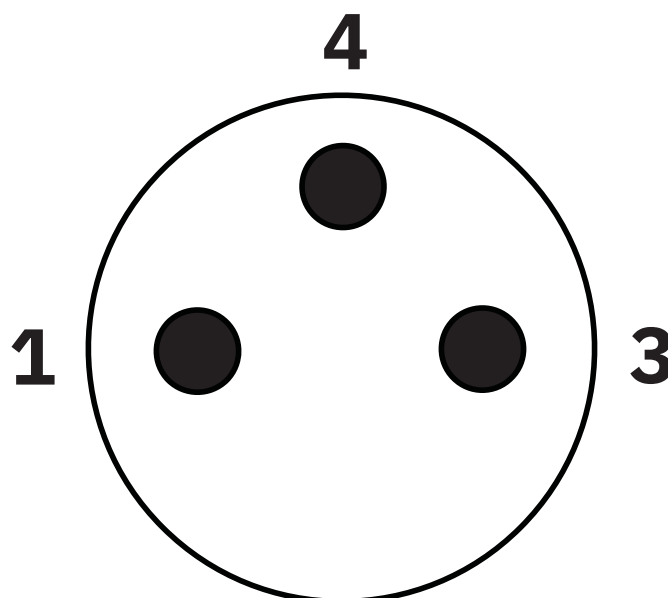


Dimensional drawing



M8 x 1 male plug, straight version

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable





1504893

<https://www.phoenixcontact.com/us/products/1504893>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1504893>

 <b>UL Listed</b> Approval ID: FILE E 221474	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	-	-

 <b>cUL Listed</b> Approval ID: FILE E 221474	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	4 A	-	-

 <b>EAC-RoHS</b> Approval ID: RU D-DE.HB35.B.00387
---

<b>cULus Listed</b>
---------------------

# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable



1504893

<https://www.phoenixcontact.com/us/products/1504893>

## Classifications

### ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

### ETIM

ETIM 8.0	EC001855
----------	----------

### UNSPSC

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



# SAC-3P-M 8MS/ 0,5-PUR - Sensor/actuator cable



1504893

<https://www.phoenixcontact.com/us/products/1504893>

## 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"

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)