

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

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 M12 Push Pull, coding: A, on Socket straight M12, coding: A, cable length: 3 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with push-pull fast locking

## Commercial data

Item number	1392628
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF06
Product key	AF1CBC
GTIN	4063151820008
Weight per piece (including packing)	83.7 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	PL

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

## Technical data

### Product properties

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

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
--	----

### Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage $U_N$	250 V AC
	250 V DC
Nominal current $I_N$	4 A

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	-------

### Signaling

Status display	no
Status display present	no

### Connection data

#### Conductor connection

Tightening torque	0.4 Nm (M12 push-pull connectors)
-------------------	-----------------------------------

### Connector

#### Connection 1

Type	Plug straight M12 Push Pull
Number of positions	3
Locking type	Push Pull
Coding type	A

#### Connection 2

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

Type	Socket straight M12
Number of positions	3
Coding type	A

## Cable/line

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

### PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	23 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	3x 0.34 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	3.85 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) approx. 0.50 mm (Outer cable sheath)
Overall twist	3 wires, twisted
Max. conductor resistance	max. 58 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	19 mm
Smallest bending radius, movable installation	38 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 38 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.

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

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 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
Ambient temperature (operation)	-25 °C ... 85 °C (Plug) -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

Standard designation	M12-Push-Pull
Standards/specifications	IEC 61076-2-010

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable

1392628

<https://www.phoenixcontact.com/us/products/1392628>

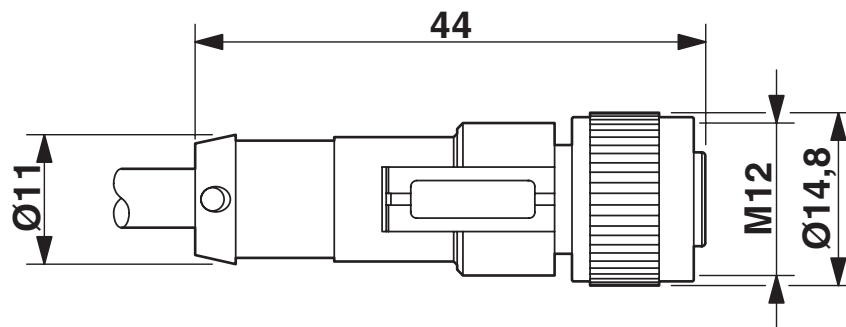
## Drawings

Dimensional drawing



M12 push-pull male connector, straight

Dimensional drawing



M12 x 1 socket, straight

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

Schematic diagram



Pin assignment M12 male connector

Schematic diagram



Pin assignment socket M 12

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

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

### UNSPSC

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

# SAC-3P-P12MS/ 3,0-PUR/M12FS - Sensor/actuator cable



1392628

<https://www.phoenixcontact.com/us/products/1392628>

## 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)