

# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable



1408499

<https://www.phoenixcontact.com/us/products/1408499>

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, 2-position, PUR halogen-free, black-gray RAL 7021, Plug angled M8, on Valve connector CI (9.4 mm), with 1 LED, Wiring: Z diode, cable length: 0.16 m

## Commercial data

Item number	1408499
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1DOA
GTIN	4046356813846
Weight per piece (including packing)	23.4 g
Weight per piece (excluding packing)	23 g
Country of origin	PL

# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable

1408499

<https://www.phoenixcontact.com/us/products/1408499>

## Technical data

### Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	2

### Electrical properties

Nominal voltage $U_N$	24 V AC
	24 V DC

### Mechanical properties

#### Mechanical data

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

### Connector

#### Connection 1

Type	Plug angled M8
------	----------------

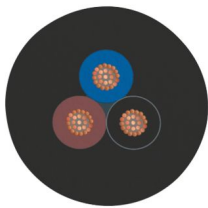
#### Connection 2

Type	Valve connector CI (9.4 mm)
Protective circuit	Z diode

### Cable/line

Cable length	0.16 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 $\pm$ 0.02 mm (Signal line)

# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable



1408499

<https://www.phoenixcontact.com/us/products/1408499>

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.
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)

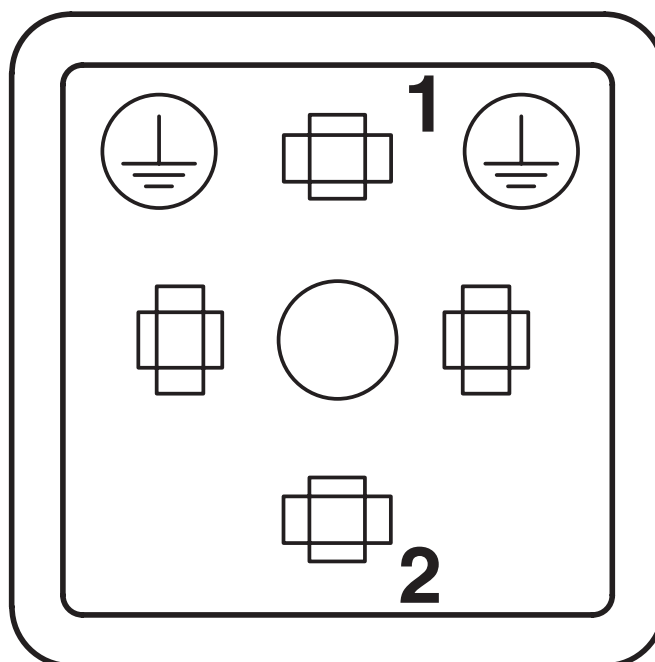
# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable

1408499

<https://www.phoenixcontact.com/us/products/1408499>

## Drawings

Schematic diagram



Valve connector connector pin assignment, type CI

# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable




1408499

<https://www.phoenixcontact.com/us/products/1408499>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408499>

 <b>CSAus</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	24 V	4 A	-	-

# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable



1408499

<https://www.phoenixcontact.com/us/products/1408499>

## Classifications

### ECLASS

ECLASS-13.0	27060312
ECLASS-15.0	27060312

### ETIM

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

### UNSPSC

UNSPSC 21.0	31251500
-------------	----------

# SAC-2P-M 8MR/0,16-PUR/CI-1L-Z - Sensor/actuator cable



1408499

<https://www.phoenixcontact.com/us/products/1408499>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

### 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.)	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)