

## Sensor/actuator cable - SAC-3P-M12MS/ 4,0-PUR - 1400275

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, A-coded, on free cable end, cable length: 4 m

RoHS

### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                  |
| Minimum order quantity | 50 pc                                                                                                 |
| GTIN                   | <br>4 046356 483209 |
| GTIN                   | 4046356483209                                                                                         |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 4 m   |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |
|                      | IP68 |

#### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Rated voltage               | 250 V        |
| Number of positions         | 3            |
| Insulation resistance       | ≥ 100 MΩ     |
| Coding                      | A - standard |
| Status display              | No           |
| Overvoltage category        | II           |
| Degree of pollution         | 3            |
| Insertion/withdrawal cycles | ≥ 100        |

#### Material

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | HB    |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au |

# Sensor/actuator cable - SAC-3P-M12MS/ 4,0-PUR - 1400275

## Technical data

### Material

|                          |                                             |
|--------------------------|---------------------------------------------|
| Contact carrier material | TPU GF                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, nickel-plated                |

### Standards and Regulations

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | HB |
|----------------------------------------|----|

### Cable

|                                               |                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------|
| Cable type                                    | PUR halogen-free black                                              |
| Cable type (abbreviation)                     | PUR                                                                 |
| Cable abbreviation                            | Li9Y11Y                                                             |
| UL AWM style                                  | 20549                                                               |
| Conductor cross section                       | 3x 0.34 mm <sup>2</sup> (Signal line)                               |
| AWG signal line                               | 22                                                                  |
| Conductor structure signal line               | 42x 0.10 mm                                                         |
| Core diameter including insulation            | 1.27 mm ±0.02 mm (Signal line)                                      |
| Thickness, insulation                         | ≥ 0.21 mm (Core insulation)                                         |
|                                               | approx. 0.5 mm (Outer cable sheath)                                 |
| Wire colors                                   | brown, blue, black                                                  |
| Overall twist                                 | 3 wires, twisted                                                    |
| External sheath, color                        | black-gray RAL 7021                                                 |
| External cable diameter D                     | 3.85 mm ±0.15 mm                                                    |
| Smallest bending radius, fixed installation   | 19 mm                                                               |
| Smallest bending radius, movable installation | 38 mm                                                               |
| Number of bending cycles                      | 10000000                                                            |
| Bending radius                                | 44 mm                                                               |
| Traversing path                               | 10 m                                                                |
| Traversing rate                               | 3 m/s                                                               |
| Acceleration                                  | 10 m/s <sup>2</sup>                                                 |
| Cable weight                                  | 23 kg/km                                                            |
| Outer sheath, material                        | PUR                                                                 |
| Material conductor insulation                 | PP                                                                  |
| Conductor material                            | Bare Cu litz wires                                                  |
| Insulation resistance                         | ≥ 100 GΩ*km (at 20 °C)                                              |
| Conductor resistance                          | max. 58 Ω/km (at 20 °C)                                             |
| Nominal voltage, cable                        | ≤ 300 V                                                             |
| Test voltage, cable                           | ≥ 3000 V                                                            |
| Special properties                            | Flexible cable conduit capable                                      |
|                                               | Silicone-free                                                       |
|                                               | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                              | in accordance with UL 758/1581 FT2                                  |
|                                               | DIN EN 60332-2-2 (20 s)                                             |

## Sensor/actuator cable - SAC-3P-M12MS/ 4,0-PUR - 1400275

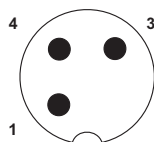
### Technical data

#### Cable

|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                   |
| 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 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)               |
|                                 | -25 °C ... 80 °C (cable, flexible installation)            |

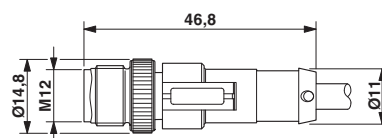
### Drawings

Schematic diagram



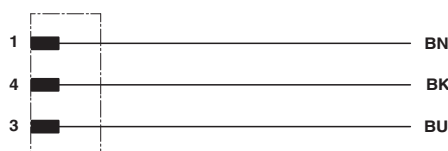
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



Contact assignment of the M12 plug

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9