

# SAC-3P-M12MR/0,3-PUR/A-1L-Z - Sensor/actuator cable



1439337  
<https://www.phoenixcontact.com/us/products/1439337>

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12, on Valve connector A, with 1 LED

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1439337                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF07                           |
| Product key                          | AF1DJA                         |
| GTIN                                 | 4046356489225                  |
| Weight per piece (including packing) | 43.8 g                         |
| Weight per piece (excluding packing) | 43.8 g                         |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                     |                                            |
|---------------------|--------------------------------------------|
| Product type        | Sensor/actuator cable with valve connector |
| Number of positions | 3                                          |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 24 V AC |
|                       | 24 V DC |

### Mechanical properties

#### Mechanical data

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

### Connector

#### Connection 1

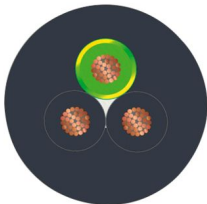
|                     |                 |
|---------------------|-----------------|
| Type                | Plug angled M12 |
| Number of positions | 3               |

#### Connection 2

|                     |                   |
|---------------------|-------------------|
| Type                | Valve connector A |
| Number of positions | 3                 |

### Cable/line

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

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 30 kg/km                                                                             |
| UL AWM Style                    | 20549                                                                                |
| Number of positions             | 3                                                                                    |
| Shielded                        | no                                                                                   |
| Cable type                      | PUR halogen-free black [PUR]                                                         |
| Conductor structure signal line | 28x 0.15 mm                                                                          |
| AWG signal line                 | 20                                                                                   |
| Conductor cross section         | 3x 0.5 mm <sup>2</sup>                                                               |
| Wire diameter incl. insulation  | 1.5 mm $\pm 0.05$ mm (Signal line)                                                   |

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|                                               |                                                                                                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| External cable diameter                       | 4.50 mm ±0.2 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                            | black 1, black 2, green/yellow                                                                                              |
| Overall twist                                 | 3 wires, twisted                                                                                                            |
| Max. conductor resistance                     | 39 Ω/km (at 20 °C)                                                                                                          |
| Insulation resistance                         | min. 20 MΩ*km                                                                                                               |
| Nominal voltage, cable                        | ≤ 300 V                                                                                                                     |
| Test voltage                                  | ≥ 1200 V                                                                                                                    |
| Minimum bending radius, fixed installation    | 5 x D                                                                                                                       |
| Minimum bending radius, flexible installation | 10 x D                                                                                                                      |
| Smallest bending radius, fixed installation   | 22.5 mm                                                                                                                     |
| Smallest bending radius, movable installation | 45 mm                                                                                                                       |
| Dynamic load capacity (bending)               | Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s² |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                    |
| Flame resistance                              | according to DIN VDE 0482                                                                                                   |
|                                               | According to DIN EN 50265-2-1                                                                                               |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                                                         |
| Other resistance                              | largely oil-resistant                                                                                                       |
|                                               | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)                                                                |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)                                                                                |
|                                               | -20 °C ... 80 °C (Cable, flexible installation)                                                                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060312 |
| ECLASS-15.0 | 27060312 |

### ETIM

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

### UNSPSC

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

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## 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% |
|-------------------------------------|----------------------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)