

# SAC-2P-M8MR/ 3,0-PUR/BI-1L-Z - Sensor/actuator cable



1405333  
<https://www.phoenixcontact.com/us/products/1405333>

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Sensor/actuator cable, PUR halogen-free, black-gray RAL 7021, Plug angled M8, on Valve connector BI (11 mm), with 1 LED, Wiring: Z diode, cable length: 3 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1405333       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1DMA        |
| GTIN                                 | 4046356740401 |
| Weight per piece (including packing) | 87.9 g        |
| Weight per piece (excluding packing) | 87.9 g        |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|              |                                            |
|--------------|--------------------------------------------|
| Product type | Sensor/actuator cable with valve connector |
|--------------|--------------------------------------------|

### Electrical properties

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

### Connector

#### Connection 1

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

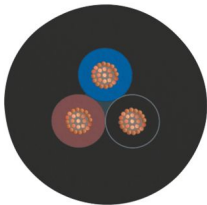
#### Connection 2

|                    |                            |
|--------------------|----------------------------|
| Type               | Valve connector BI (11 mm) |
| Protective circuit | Z diode                    |

### 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                                                                   |

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|                                               |                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: ≥2000000, 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)                                                                                                                |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |              |
|-----------------------------------------|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 6(c), 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.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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