

# SAC-3P-20,0-PUR/4P-M12FS - Sensor/actuator cable



1405369

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Sensor/actuator cable, PUR halogen-free, black-gray RAL 7021

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1405369       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 25 pc         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4046356742634 |
| Weight per piece (including packing) | 501.75 g      |
| Weight per piece (excluding packing) | 501.75 g      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|              |                       |
|--------------|-----------------------|
| Product type | Sensor/actuator cable |
|--------------|-----------------------|

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Electrical properties

|                       |          |
|-----------------------|----------|
| Nominal voltage $U_N$ | 250 V AC |
|                       | 250 V DC |
| Nominal current $I_N$ | 4 A      |

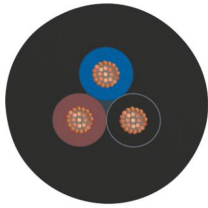
### Connection data

#### Conductor connection

|                   |        |
|-------------------|--------|
| Tightening torque | 0.4 Nm |
|-------------------|--------|

### Cable/line

#### 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: ≥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)  |

## Environmental and real-life conditions

### Ambient conditions

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

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

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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)