

# SAC-4P-1,5-PUR/FRD SCO - Sensor/actuator cable



1408220

<https://www.phoenixcontact.com/us/products/1408220>

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1408220       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4046356796903 |
| Weight per piece (including packing) | 56.2 g        |
| Weight per piece (excluding packing) | 56.2 g        |
| Country of origin                    | PL            |

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## Technical data

### Product properties

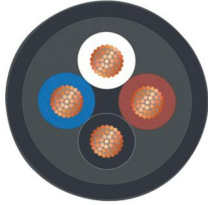
|              |                       |
|--------------|-----------------------|
| Product type | Sensor/actuator cable |
|--------------|-----------------------|

### Electrical properties

|                       |          |
|-----------------------|----------|
| Nominal voltage $U_N$ | 250 V AC |
|                       | 250 V DC |

### Cable/line

PUR halogen-free black [PUR]

|   |   |
|---|---|
| Dimensional drawing                           |  |
| Cable weight                                  | 30 kg/km  |
| UL AWM Style                                  | 20549 / 10493 (80°C/300 V)  |
| Number of positions                           | 4   |
| Shielded                                      | no  |
| Cable type                                    | PUR halogen-free black [PUR]  |
| Conductor structure signal line               | 42x 0.10 mm   |
| AWG signal line                               | 22  |
| Conductor cross-section                       | 4x 0.34 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation                | 1.27 mm ±0.02 mm  |
| External cable diameter                       | 4.20 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, white, blue, black   |
| Thickness, insulation                         | ≥ 0.21 mm   |
| Thickness, outer sheath                       | approx. 0.50 mm   |
| Overall twist                                 | 4 wires, twisted  |
| Max. conductor resistance                     | ≤ 58 Ω/km   |
| Insulation resistance                         | ≥ 1 GΩ*km   |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage                                  | ≥ 3000 V  |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |

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|   |  |
|---|--|
| Smallest bending radius, fixed installation   | 21 mm  |
| Smallest bending radius, movable installation | 42 mm  |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 42 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   |
|   | in accordance with DIN EN 50267-2-1  |
| 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)   |
|   | Low adhesion   |
|   | abrasion-resistant   |
| Special properties                            | Flexible cable conduit capable   |
|   | Silicone-free  |
|   | Free of substances which would hinder coating with paint or varnish  |
|   | flexible   |
| 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 | 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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