

# SAC-5P-MS/10,0-PUR SH SCO SIS - Sensor/actuator cable



1401153

<https://www.phoenixcontact.com/us/products/1401153>

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1401153                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Product key                          | AF1CKA                         |
| GTIN                                 | 4046356529020                  |
| Weight per piece (including packing) | 449.3 g                        |
| Weight per piece (excluding packing) | 449.3 g                        |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

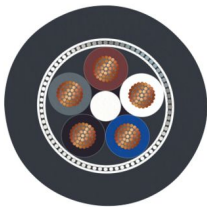
|              |                       |
|--------------|-----------------------|
| Product type | Sensor/actuator cable |
|--------------|-----------------------|

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |

### Cable/line

PUR halogen-free black [PUR]

|                                             |                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing                         |  |
| Cable weight                                | 43 kg/km                                                                            |
| UL AWM Style                                | 20549 / 10493 (80°C/300 V)                                                          |
| Number of positions                         | 5                                                                                   |
| Shielded                                    | yes                                                                                 |
| Cable type                                  | PUR halogen-free black [PUR]                                                        |
| Conductor structure signal line             | 42x 0.10 mm                                                                         |
| AWG signal line                             | 22                                                                                  |
| Conductor cross section                     | 5x 0.34 mm <sup>2</sup> (Signal line)                                               |
| Wire diameter incl. insulation              | 1.27 mm ± 0.02 mm (Signal line)                                                     |
| External cable diameter                     | 5.25 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                          | brown, white, blue, black, gray                                                     |
| Thickness, insulation                       | ≥ 0.21 mm                                                                           |
| Thickness, outer sheath                     | approx. 0.50 mm                                                                     |
| Overall twist                               | 5 wires around filler to the core                                                   |
| Optical shield covering                     | 80 %                                                                                |
| Max. conductor resistance                   | max. 57 Ω/km (at 20 °C)                                                             |
| Insulation resistance                       | 70 GΩ*km (at 20 °C)                                                                 |
| Nominal voltage, cable                      | 300 V (at 20 °C)                                                                    |
| Test voltage Core/Core                      | 3000 V (at 20 °C)                                                                   |
| Smallest bending radius, fixed installation | 26 mm                                                                               |

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|                                               |                                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Smallest bending radius, movable installation | 52 mm (up to +60 °C)                                                                                                                   |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 52 mm, 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                                                                                               |
|                                               | 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                                                                                                       |
|                                               | Resistant to salt water                                                                                                                |
|                                               | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)                                                                           |
| Special properties                            | abrasion-resistant                                                                                                                     |
|                                               | Flexible cable conduit capable                                                                                                         |
|                                               | Silicone-free                                                                                                                          |
|                                               | Free of substances which would hinder coating with paint or varnish                                                                    |
| Ambient temperature (operation)               | Low adhesion surface                                                                                                                   |
|                                               | -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 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

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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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