

# SAC-5P-MR/ 0,25-PUR/FS SCO - Sensor/actuator cable



1413676  
<https://www.phoenixcontact.com/us/products/1413676>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-pos., PUR, halogen-free, black gray RAL 7021, angled M12 SPEEDCON connector, A-coded, to straight M12 SPEEDCON socket, A-coded, cable length: 0.25 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1413676       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CDA        |
| GTIN                                 | 4055626005294 |
| Weight per piece (including packing) | 30.62 g       |
| Weight per piece (excluding packing) | 30.62 g       |
| Country of origin                    | PL            |

# SAC-5P-MR/ 0,25-PUR/FS SCO - Sensor/actuator cable



1413676

<https://www.phoenixcontact.com/us/products/1413676>

## Technical data

### Product properties

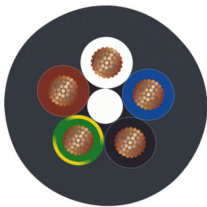
|              |                       |
|--------------|-----------------------|
| Product type | Sensor/actuator cable |
|--------------|-----------------------|

### Electrical properties

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

### Cable/line

PUR halogen-free black [PUR]

|                                               |                                                                                                                         |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                      |
| Cable weight                                  | 33 kg/km                                                                                                                |
| UL AWM Style                                  | 20549                                                                                                                   |
| Number of positions                           | 5                                                                                                                       |
| Shielded                                      | no                                                                                                                      |
| 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 0.05 mm (Signal line)                                                                                           |
| External cable diameter                       | 4.55 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, green-yellow                                                                                 |
| Thickness, insulation                         | approx. 0.50 mm                                                                                                         |
| Max. conductor resistance                     | max. 58 Ω/km (at 20 °C)                                                                                                 |
| Insulation resistance                         | ≥ 16 GΩ*km (at 20 °C)                                                                                                   |
| Nominal voltage, cable                        | 300 V                                                                                                                   |
| Test voltage                                  | 3000 V                                                                                                                  |
| Smallest bending radius, fixed installation   | 23 mm                                                                                                                   |
| Smallest bending radius, movable installation | 46 mm                                                                                                                   |
| Dynamic load capacity (bending)               | Max. bending cycles: 10000000, Bending radius: 46 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 |

# SAC-5P-MR/ 0,25-PUR/FS SCO - Sensor/actuator cable



1413676

<https://www.phoenixcontact.com/us/products/1413676>

|                                 |                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | m/s, Acceleration: 10 m/s <sup>2</sup>                                                                                                                                                    |
| Dynamic load capacity (torsion) | Torsion: $\pm 180^\circ/\text{m}$ , Torsion cycles: $\geq 20000000$ , Torsional frequency: 35 cycles/min.                                                                                 |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                                                                                                                                                  |
| Flame resistance                | in accordance with UL 758/1581 FT2<br>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<br>hydrolysis and microbe resistant<br>Resistant to salt water<br>partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) |
| Special properties              | Flexible cable conduit capable<br>Silicone-free<br>Free of substances which would hinder coating with paint or varnish<br>flexible                                                        |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)<br>-25 °C ... 80 °C (Cable, flexible installation)                                                                                           |

# SAC-5P-MR/ 0,25-PUR/FS SCO - Sensor/actuator cable



1413676  
<https://www.phoenixcontact.com/us/products/1413676>

## Classifications

### ECLASS

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

# SAC-5P-MR/ 0,25-PUR/FS SCO - Sensor/actuator cable



1413676

<https://www.phoenixcontact.com/us/products/1413676>

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

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

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