

# SAC-4P- 5,0-PUR/M12FS GY - Sensor/actuator cable



1539059

<https://www.phoenixcontact.com/us/products/1539059>

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Sensor/actuator cable, 4-position, PUR/PVC, black RAL 9005, free cable end, on Socket straight M12, cable length: 5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1539059       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4046356077132 |
| Weight per piece (including packing) | 222.68 g      |
| Weight per piece (excluding packing) | 202.68 g      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                     |                       |
|---------------------|-----------------------|
| Product type        | Sensor/actuator cable |
| Number of positions | 4                     |
| Shielded            | no                    |

### 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      |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Connection data

#### Conductor connection

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

### Connector

#### Connection 1

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

#### Connection 2

|                     |                     |
|---------------------|---------------------|
| Type                | Socket straight M12 |
| Number of positions | 4                   |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

#### PUR/PVC black [350]

|                                 |                      |
|---------------------------------|----------------------|
| Cable weight                    | 39 kg/km             |
| UL AWM Style                    | 20549                |
| Number of positions             | 4                    |
| Shielded                        | no                   |
| Cable type                      | PUR/PVC black [350]  |
| Conductor structure signal line | 42x 0.10 mm          |
| AWG signal line                 | 22                   |
| Conductor cross-section         | 0.34 mm <sup>2</sup> |

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|   |   |
|---|---|
| Wire diameter incl. insulation                | 1.5 mm ±0.05 mm   |
| External cable diameter                       | 5.20 mm ±0.2 mm   |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | black RAL 9005  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | brown, white, blue, black   |
| Thickness, insulation                         | approx. 0.30 mm (Core insulation)   |
|   | approx. 0.35 mm (Inner sheath)  |
|   | ≥ 0.38 mm (Outer cable sheath)  |
| Overall twist                                 | 4 wires, twisted  |
| Max. conductor resistance                     | max. 58 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V   |
| Test voltage                                  | ≥ 3000 V  |
| Smallest bending radius, fixed installation   | 52 mm   |
| Smallest bending radius, movable installation | 52 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000, Bending radius: 52 mm, Traversing path: 5 m, Traversing rate: 3 m/s |
| Flame resistance                              | in accordance with DIN UL-Style 20549   |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)  |
|   | -5 °C ... 80 °C (Cable, flexible installation)  |

## Environmental and real-life conditions

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP65   |
|                                 | IP67   |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)               |
|                                 | -25 °C ... 80 °C (cable, fixed installation)   |
|                                 | -5 °C ... 80 °C (Cable, flexible installation) |

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## Classifications

### ECLASS

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