

# SAC-5P-15,0-PUR/M12FS SH BK - Sensor/actuator cable



1536832

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, shielded, free cable end, on Socket straight M12, coding: A, cable length: 15 m

The illustration shows the version with a green head

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1536832       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | AF1CKA        |
| GTIN                                 | 4046356071666 |
| Weight per piece (including packing) | 916.5 g       |
| Weight per piece (excluding packing) | 876 g         |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 5                     |
| No. of cable outlets | 1                     |
| Shielded             | yes                   |
| Coding               | A                     |

### Insulation characteristics

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

### Material specifications

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | HB    |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au |
| Contact carrier material               | TPU   |

### Electrical properties

|                                            |         |
|--------------------------------------------|---------|
| Rated voltage in acc. with IEC 61076-2-101 | 60 V    |
| Nominal voltage $U_N$                      | 48 V AC |
|                                            | 60 V DC |
| Nominal current $I_N$                      | 4 A     |

### Mechanical properties

#### Mechanical data

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

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Connector

#### Connection 1

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

#### Connection 2

|                     |                     |
|---------------------|---------------------|
| Type                | Socket straight M12 |
| Number of positions | 5                   |
| Coding type         | A                   |

### Cable/line

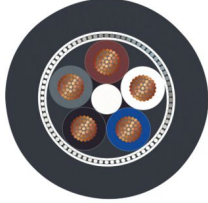
|              |      |
|--------------|------|
| Cable length | 15 m |
|--------------|------|

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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                                                                                                                                  |
| 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: ≥5000000, Torsional frequency: 35 cycles/min.                                                       |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815<br>in accordance with DIN EN 50267-2-1                                                        |
| 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                                                                                                    |

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|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| 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)        |
|                                 | abrasion-resistant                                                  |
| Special properties              | Flexible cable conduit capable                                      |
|                                 | Silicone-free                                                       |
|                                 | Free of substances which would hinder coating with paint or varnish |
|                                 | Low adhesion surface                                                |
| 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                                           |
| 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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## Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



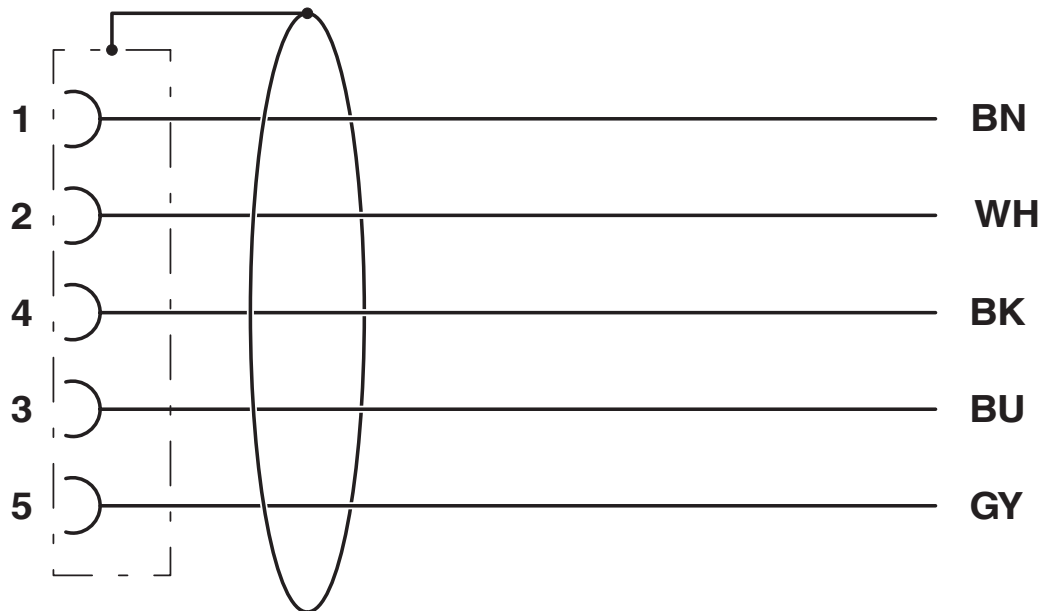
Pin assignment of M12 socket, 5-pos.

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Circuit diagram



Contact assignment of the M12 socket

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## Approvals

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|  <b>UL Listed</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                            |                       |                       |                   |                             |
|                                                                                                                                  | 125 V                 | 4 A                   | -                 | -                           |

|  <b>cUL Listed</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                             |                       |                       |                   |                             |
|                                                                                                                                   | 125 V                 | 4 A                   | -                 | -                           |

|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)