

# SAC-4PY-MS- 0,6-PUR/2XF - Sensor/actuator cable



1436217

<https://www.phoenixcontact.com/us/products/1436217>

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A and Socket straight M12 SPEEDCON, coding: A, cable length: 0.6 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1436217       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF10          |
| Product key                          | AF1GAD        |
| GTIN                                 | 4046356432467 |
| Weight per piece (including packing) | 59.6 g        |
| Weight per piece (excluding packing) | 57.3 g        |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                      |                        |
|----------------------|------------------------|
| Product type         | Distributor with cable |
| Application          | Standard               |
| Number of positions  | 4                      |
| No. of cable outlets | 1                      |
| Shielded             | no                     |
| Coding               | A                      |

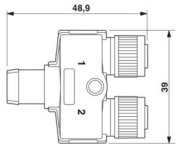
### Insulation characteristics

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

### Connection data

|                   |                        |
|-------------------|------------------------|
| Tightening torque | 0.4 Nm (M12 connector) |
|-------------------|------------------------|

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Center distance     | 21 mm  |

### Material specifications

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| Seal material                          | NBR   |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |
| Outer sheath, material                 | PUR   |
| Conductor material                     | Bare Cu litz wires                          |

### Electrical properties

|                           |          |
|---------------------------|----------|
| Insulation resistance     | ≥ 100 MΩ |
| Nominal voltage $U_N$     | 48 V AC  |
|                           | 60 V DC  |
| Nominal current $I_N$     | 4 A      |
| Max. conductor resistance | 58 Ω/m   |

### Mechanical properties

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## Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | ≥ 100   |
| Max. bending cycles         | 4000000 |

## Signaling

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

## Connector

### Connection 1

|              |                            |
|--------------|----------------------------|
| Type         | Plug straight M12 SPEEDCON |
| Locking type | SPEEDCON                   |
| Coding type  | A                          |

### Connection 2

|              |                              |
|--------------|------------------------------|
| Type         | Socket straight M12 SPEEDCON |
| Locking type | SPEEDCON                     |
| Coding type  | A                            |

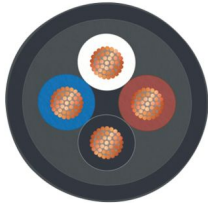
### Connection 3

|              |                              |
|--------------|------------------------------|
| Type         | Socket straight M12 SPEEDCON |
| Locking type | SPEEDCON                     |
| Coding type  | A                            |

## Cable/line

|              |       |
|--------------|-------|
| Cable length | 0.6 m |
|--------------|-------|

### 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)  |

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|   |  |
|---|--|
| 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   |
| 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<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  |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents<br>hydrolysis and microbe resistant<br>partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)<br>Low adhesion<br>abrasion-resistant |
| 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)  |

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

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|   |  |
|---|--|
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket)               |
| Ambient temperature (operation) (fixed installation)              | -40 °C ... 80 °C (cable, fixed installation)   |
| Ambient temperature (operation) (flexible installation)           | -5 °C ... 80 °C (Cable, flexible installation) |

## Standards and regulations

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

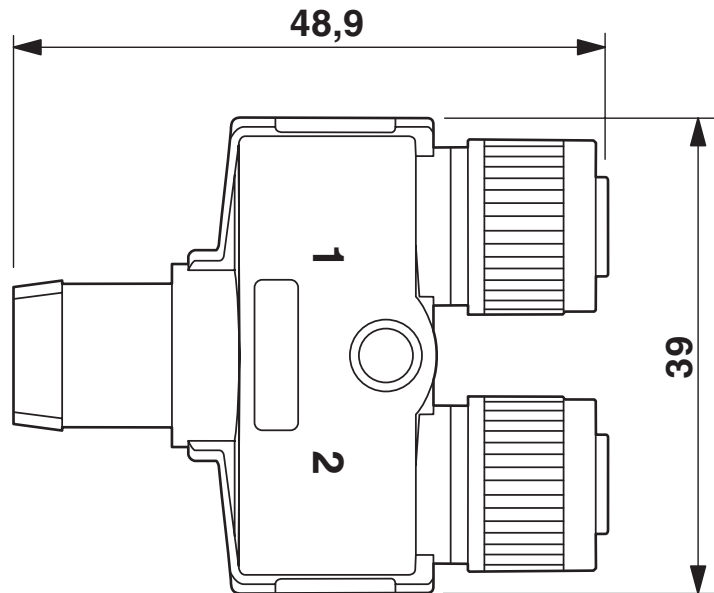
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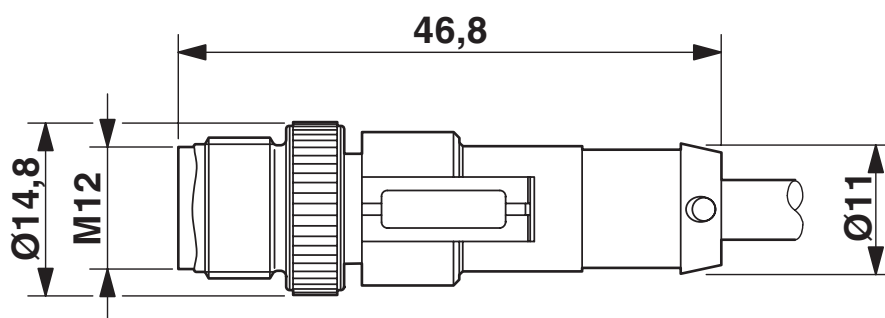
## Drawings

Dimensional drawing



Y distributor, 2 x socket M12 x 1

Dimensional drawing



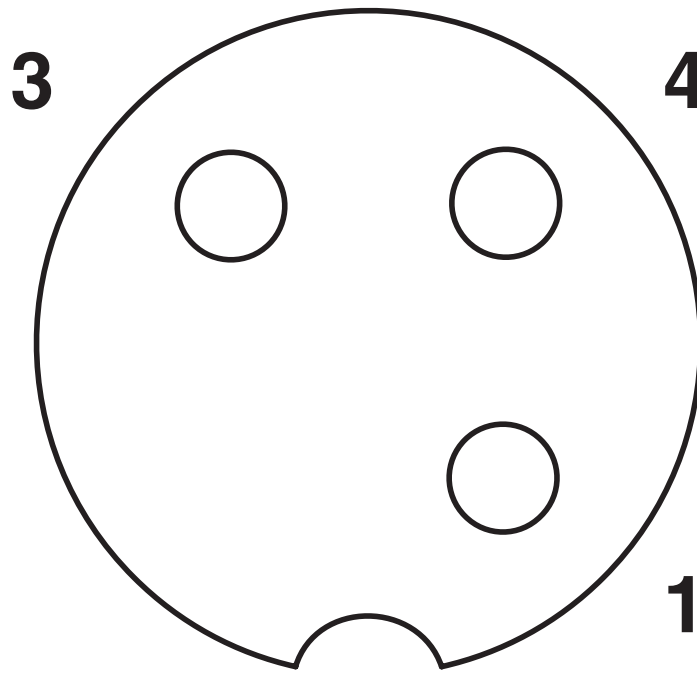
Plug, M12 x 1, straight, shielded

Schematic diagram



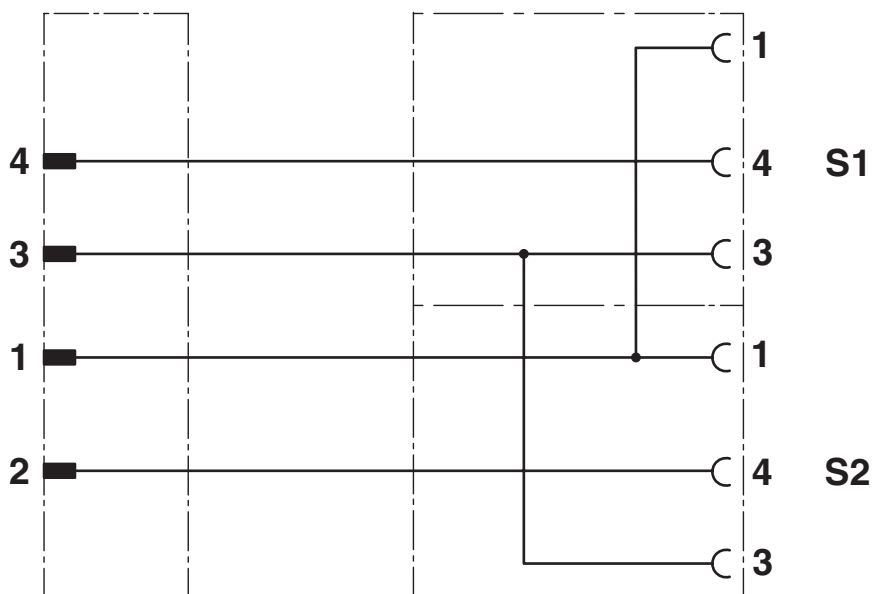
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 Y distributor

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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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.119 kg CO2e |
|---------|---------------|

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