

# SAC-4P- 3,0-PVC/M 8FS - Sensor/actuator cable



1415551

<https://www.phoenixcontact.com/us/products/1415551>

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Sensor/actuator cable, 4-position, PVC, black RAL 9005, free cable end, on Socket straight M8, coding: A, cable length: 3 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1415551       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF01          |
| Product key                          | AF1BCA        |
| GTIN                                 | 4055626049359 |
| Weight per piece (including packing) | 92 g          |
| Weight per piece (excluding packing) | 79.38 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

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

### 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                |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| 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 M8 |
| Number of positions | 4                  |

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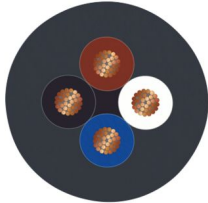
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|             |   |
|-------------|---|
| Coding type | A |
|-------------|---|

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

PVC black [PVC]

|   |   |
|---|---|
| Dimensional drawing                         |               |
| Cable weight                                | 33 kg/km  |
| UL AWM Style                                | 2464 / 1729 (80°C/300 V)  |
| Number of positions                         | 4   |
| Shielded                                    | no  |
| Cable type                                  | PVC black [PVC]   |
| Conductor structure signal line             | 14x 0.15 mm   |
| AWG signal line                             | 24  |
| Conductor cross-section                     | 4x 0.25 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation              | 1.17 mm ±0.05 mm  |
| External cable diameter                     | 4.40 mm ±0.15 mm  |
| Outer sheath, material                      | PVC   |
| 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                       | ≥ 0.23 mm (Core insulation)<br>≥ 0.76 mm (Outer cable sheath)                                   |
| Overall twist                               | 4 wires, twisted  |
| Max. conductor resistance                   | max. 79 Ω/km (at 20 °C)   |
| Insulation resistance                       | ≥ 100 MΩ*km (at 20 °C)  |
| Nominal voltage, cable                      | ≤ 300 V   |
| Test voltage                                | ≥ 3000 V  |
| Minimum bending radius, fixed installation  | 5 x D   |
| Smallest bending radius, fixed installation | 22 mm   |
| Flame resistance                            | As per UL-Style 2464  |
| Resistance to oil                           | EN 60811-2-1  |
| Ambient temperature (operation)             | -25 °C ... 80 °C (cable, fixed installation)<br>-10 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

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## Ambient conditions

|   |                                  |
|---|----------------------------------|
| Degree of protection  | IP65                             |
|   | IP67                             |
|   | IP68                             |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

## Standards and regulations

### M8

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M8 connector    |
| Standards/specifications | IEC 61076-2-104 |

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## Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

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Circuit diagram



Contact assignment of M8/M12 plugs/sockets

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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  |                       |                       |                   |                             |
|  | 30 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   |                       |                       |                   |                             |
|   | 30 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.71 kg CO2e |
|---------|--------------|

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