

# SAC-4P-10,0-PVC/M12FR BK - Sensor/actuator cable



1527731

<https://www.phoenixcontact.com/in/products/1527731>

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Sensor/actuator cable, 4-position, PVC, black RAL 9005, free cable end, on Socket angled M12, coding: A, cable length: 10 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1527731       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Sales key                            | *****         |
| Product key                          | AF1CCA        |
| GTIN                                 | 4017918959043 |
| Weight per piece (including packing) | 354 g         |
| Weight per piece (excluding packing) | 357.9 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| 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 $U_N$ | 250 V AC                   |
|                       | 250 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 |

### Connection data

#### Conductor connection

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

### Connector

#### Connection 1

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

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## Connection 2

|                     |                   |
|---------------------|-------------------|
| Type                | Socket angled M12 |
| Number of positions | 4                 |
| Coding type         | A                 |

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

## PVC black [PVC]

|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| Cable weight                                  | 40 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               | 19x 0.15 mm                                                                        |
| AWG signal line                               | 22                                                                                 |
| Conductor cross section                       | 4x 0.34 mm <sup>2</sup> (Signal line)                                              |
| Wire diameter incl. insulation                | 1.26 mm ±0.05 mm                                                                   |
| External cable diameter                       | 4.70 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)                                                        |
| Thickness, outer sheath                       | ≥ 0.76 mm                                                                          |
| Overall twist                                 | 4 wires, twisted                                                                   |
| Max. conductor resistance                     | ≤ 57 Ω/km (at 20 °C)                                                               |
| Insulation resistance                         | ≥ 200 MΩ*km (at 20 °C)                                                             |
| 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   | 24 mm                                                                              |
| Smallest bending radius, movable installation | 47 mm                                                                              |
| Flame resistance                              | As per UL-Style 2464                                                               |

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|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Resistance to oil               | according to DIN EN 60811-2-1, 168 h at 60 °C   |
| Ambient temperature (operation) | -25 °C ... 80 °C (cable, fixed installation)    |
|                                 | -10 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Degree of protection            | IP65                                           |
|                                 | IP67                                           |
|                                 | IP68                                           |
| 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, angled

Schematic diagram



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

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## Approvals

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### UL Listed

Approval ID: FILE E 221474

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 300 V                 | 4 A                   | -                 | -                           |



### cUL Listed

Approval ID: FILE E 221474

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 300 V                 | 4 A                   | -                 | -                           |



### EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

### cULus Listed

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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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