

# SAC-8P-10,0-PVC/M12FR - Sensor/actuator cable



1415736

<https://www.phoenixcontact.com/au/products/1415736>

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Sensor/actuator cable, 8-position, PVC, black RAL 9005, free cable end, on Socket angled M12, coding: A, cable length: 10 m

## Your advantages

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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1415736             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AF1CFA              |
| Product key                          | AF1CFA              |
| Catalog page                         | Page 209 (C-2-2019) |
| GTIN                                 | 4055626052533       |
| Weight per piece (including packing) | 519.6 g             |
| Weight per piece (excluding packing) | 500 g               |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |

## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 8                     |
| 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                       | CuZn  |
| 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 $U_N$ | 30 V AC                    |
|                       | 30 V DC                    |
| Nominal current $I_N$ | 2 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 angled M12 |
| Number of positions | 8                 |

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

## Cable/line

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

## PVC black [PVC]

|   |   |
|---|---|
| Dimensional drawing                           |               |
| Cable weight                                  | 54 kg/km  |
| UL AWM Style                                  | 2464 / 1729 (80°C/300 V)  |
| Number of positions                           | 8   |
| Shielded                                      | no  |
| Cable type                                    | PVC black [PVC]   |
| Conductor structure signal line               | 14x 0.15 mm   |
| AWG signal line                               | 24  |
| Conductor cross section                       | 8x 0.25 mm² (Signal line)   |
| Wire diameter incl. insulation                | 1.17 mm ±0.05 mm  |
| External cable diameter                       | 5.90 mm ±0.2 mm   |
| Outer sheath, material                        | PVC   |
| External sheath, color                        | black RAL 9005  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PVC   |
| Single wire, color                            | white, brown, green, yellow, gray, pink, blue, red  |
| Thickness, insulation                         | ≥ 0.23 mm   |
| Thickness, outer sheath                       | ≥ 0.76 mm   |
| Overall twist                                 | 8 wires around filler to the core   |
| Max. conductor resistance                     | 79 Ω/km (at 20 °C)  |
| Insulation resistance                         | ≥ 200 MΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | ≤ 300 V AC  |
| Test voltage                                  | ≥ 3000 V AC   |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| Smallest bending radius, fixed installation   | 30 mm   |
| Smallest bending radius, movable installation | 59 mm   |
| Flame resistance                              | as per VW-1 in accordance with UL 758   |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1   |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)<br>-10 °C ... 80 °C (Cable, flexible installation) |

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## Environmental and real-life conditions

### Ambient conditions

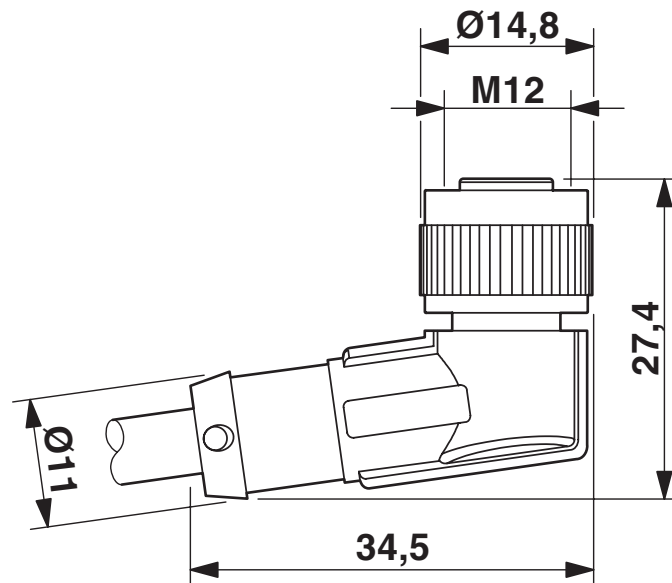
|   |                                  |
|---|----------------------------------|
| Degree of protection  | IP65                             |
|   | IP67                             |
|   | IP68                             |
| Ambient temperature (operation) (male connector/female connector) | -25 °C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

## Standards and regulations

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

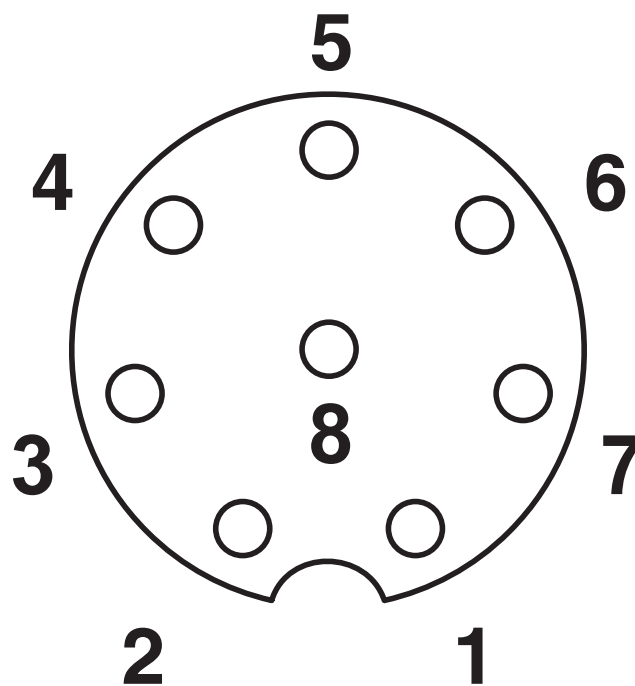
## Drawings

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram

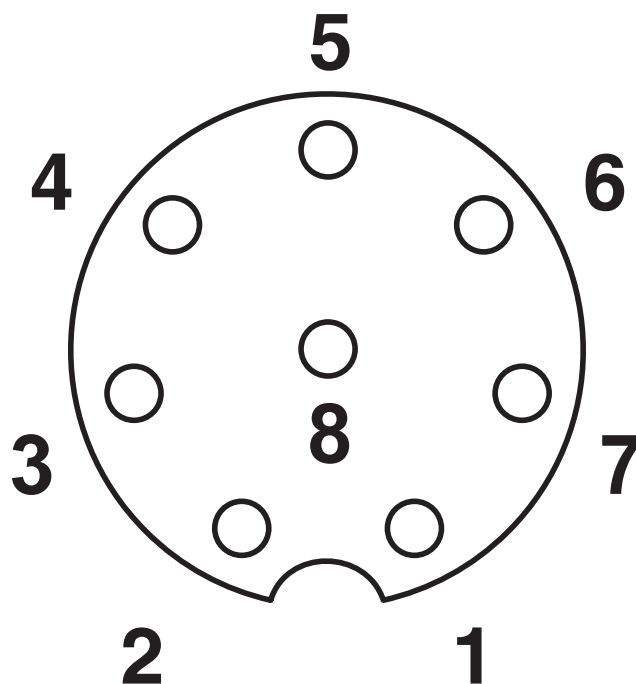


Pin assignment M12 socket, 8-pos., A-coded, view female side

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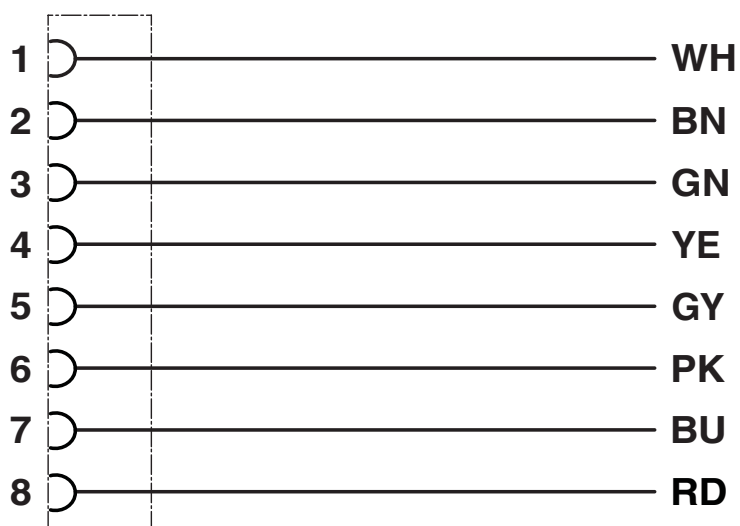
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Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 socket

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1415736>

|  |  |                       |                   |                             |
|--|--|-----------------------|-------------------|-----------------------------|
|  | <b>UL Listed</b><br>Approval ID: FILE E 221474 |                       |                   |                             |
|  | Nominal voltage $U_N$                          | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 30 V   | 2 A                   | -                 | -                           |

|  |   |                       |                   |                             |
|--|---|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: FILE E 221474 |                       |                   |                             |
|  | Nominal voltage $U_N$                           | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 30 V  | 2 A                   | -                 | -                           |

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

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## Classifications

### ECLASS

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

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 5.787 kg CO2e |
|---------|---------------|

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