

# SAC-5P-10,0-PVC/M12FR SH - Sensor/actuator cable



1527757

<https://www.phoenixcontact.com/in/products/1527757>

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Sensor/actuator cable, 5-position, PVC, black RAL 9005, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: A, cable length: 10 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1527757       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 100 pc        |
| Sales key                            | *****         |
| Product key                          | AF1CKA        |
| GTIN                                 | 4017918959029 |
| Weight per piece (including packing) | 585.6 g       |
| Weight per piece (excluding packing) | 567.1 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| 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                                          |
| 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 M12 |
| Number of positions | 5                   |

# SAC-5P-10,0-PVC/M12FR SH - Sensor/actuator cable



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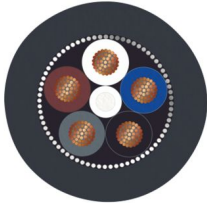
<https://www.phoenixcontact.com/in/products/1527757>

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

## Cable/line

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

### PVC black [PVC]

|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| Cable weight                                  | 55 kg/km                                                                           |
| Number of positions                           | 5                                                                                  |
| Shielded                                      | yes                                                                                |
| Cable type                                    | PVC black [PVC]                                                                    |
| 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                | 1.35 mm ±0.02 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, filler                              | PVC                                                                                |
| Material wire insulation                      | PVC                                                                                |
| Single wire, color                            | brown, white, blue, black, gray                                                    |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)<br>≥ 0.76 mm (Outer cable sheath)                      |
| Overall twist                                 | 5 wires around filler to the core                                                  |
| Optical shield covering                       | 85 %                                                                               |
| Max. conductor resistance                     | ≤ 58 Ω/km (at 20 °C)                                                               |
| Insulation resistance                         | ≥ 10 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   | 30 mm                                                                              |
| Smallest bending radius, movable installation | 59 mm                                                                              |
| Flame resistance                              | As per UL-Style 2464                                                               |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                |
| Ambient temperature (operation)               | -25 °C ... 80 °C (cable, fixed installation)                                       |

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|  |                                                |
|--|------------------------------------------------|
|  | -5 °C ... 80 °C (Cable, flexible installation) |
|--|------------------------------------------------|

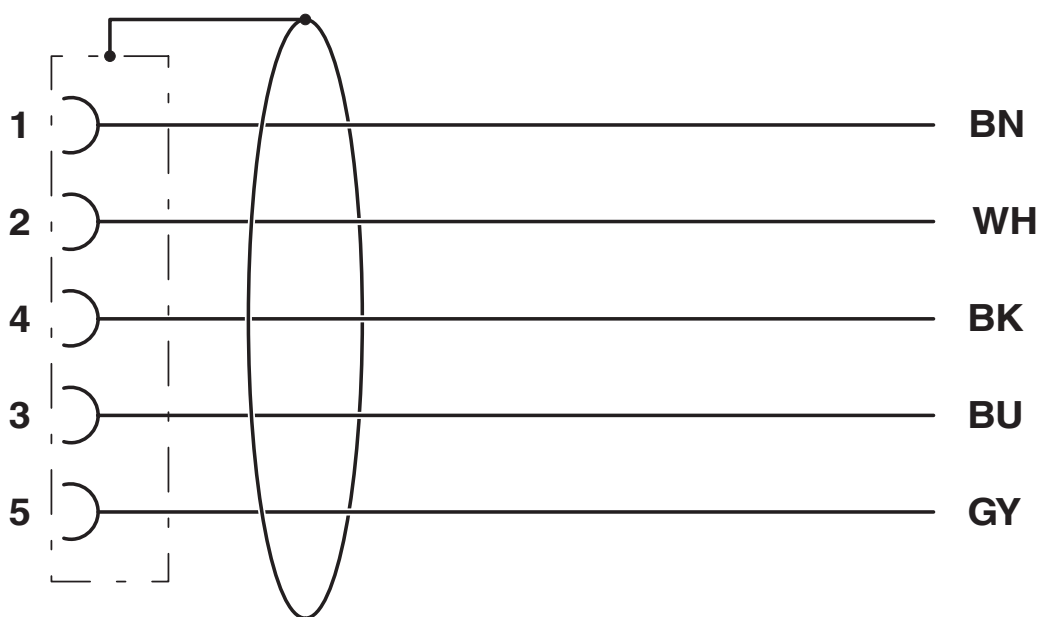
## Environmental and real-life conditions

### 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) |

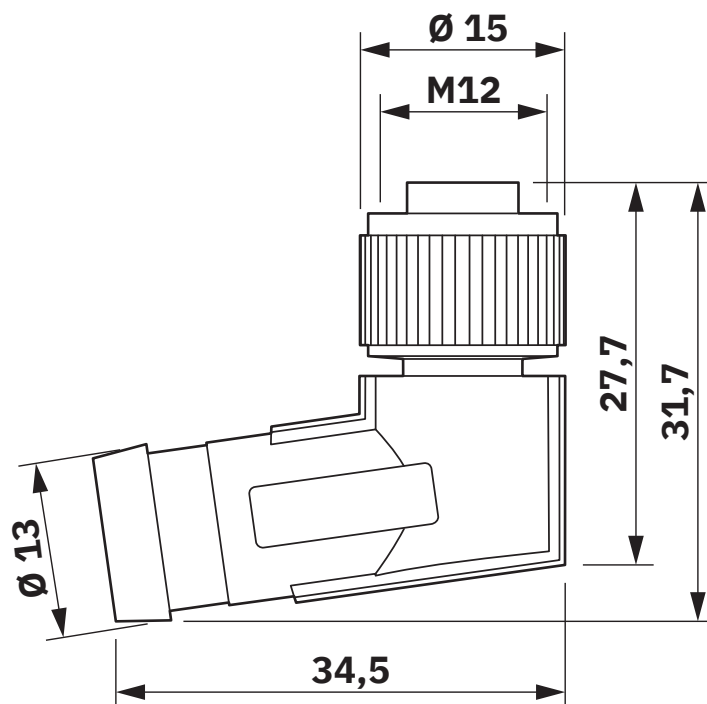
## Drawings

Circuit diagram



Contact assignment of the M12 socket

Dimensional drawing

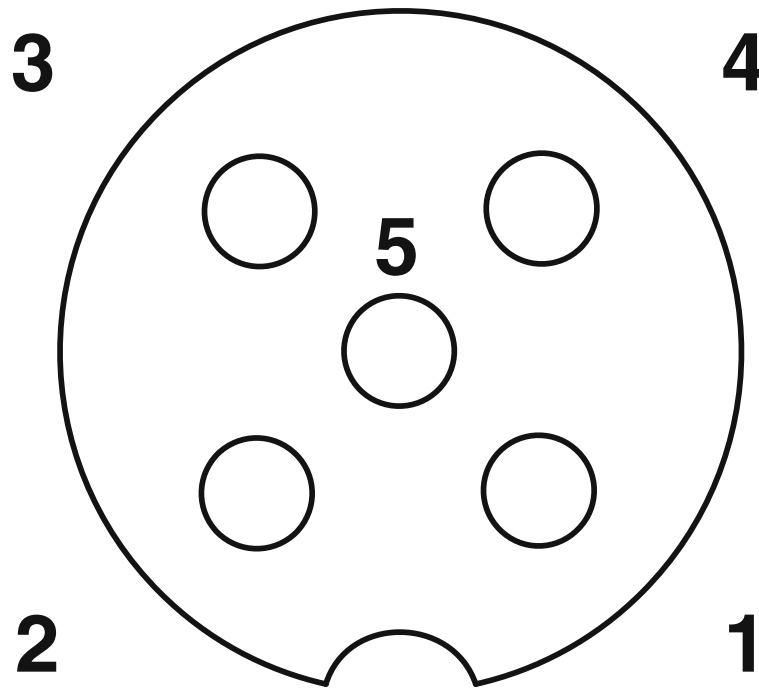


M12 x 1 socket, angled, shielded

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Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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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 $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 125 V                 | 4 A                   | -                 | -                           |



### cUL Listed

Approval ID: FILE E 221474

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 125 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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