

## Sensor/actuator cable - SAC-4P-25,0-500/M12FS - 1544992

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Sensor/actuator cable, 4-position, PVC, gray RAL 7001, free cable end, on Socket straight M12, coding: A, cable length: 25 m



### Key Commercial Data

|              |                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                  |
| GTIN         | <br>4 046356 118408 |
| GTIN         | 4046356118408                                                                                         |

### Technical data

#### Dimensions

|                                            |       |
|--------------------------------------------|-------|
| Length of cable                            | 25 m  |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

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

#### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Rated voltage               | 250 V AC     |
|                             | 250 V DC     |
| Number of positions         | 4            |
| Insulation resistance       | ≥ 100 MΩ     |
| Coding                      | A - standard |
| Status display              | No           |
| Overvoltage category        | II           |
| Degree of pollution         | 3            |
| Insertion/withdrawal cycles | ≥ 100        |
| Torque                      | 0.4 Nm       |

#### Material

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | HB |
|----------------------------------------|----|

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## Technical data

### Material

|                          |                                             |
|--------------------------|---------------------------------------------|
| Contact material         | CuSn                                        |
| Contact surface material | Ni/Au                                       |
| Contact carrier material | TPU GF                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, nickel-plated                |
| Sealing material         | NBR                                         |

### Standards and Regulations

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | HB |
|----------------------------------------|----|

### Cable

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Cable abbreviation                            | LiYY                                            |
| UL AWM style                                  | 2464 / 1729 (80°C/300 V)                        |
| Conductor cross section                       | 4x 0.34 mm² (Signal line)                       |
| AWG signal line                               | 22                                              |
| Conductor structure signal line               | 19x 0.15 mm                                     |
| Core diameter including insulation            | 1.26 mm ±0.05 mm                                |
| Thickness, insulation                         | ≥ 0.23 mm (Core insulation)                     |
| Wire colors                                   | brown, white, blue, black                       |
| Overall twist                                 | 4 wires, twisted                                |
| External sheath, color                        | gray RAL 7001                                   |
| Outer sheath thickness                        | ≥ 0.76 mm                                       |
| External cable diameter D                     | 4.7 mm ±0.15 mm                                 |
| Minimum bending radius, fixed installation    | 5 x D                                           |
| Minimum bending radius, flexible installation | 10 x D                                          |
| Cable weight                                  | 40 kg/km                                        |
| Outer sheath, material                        | PVC                                             |
| Material conductor insulation                 | PVC                                             |
| Conductor material                            | Bare Cu litz wires                              |
| Insulation resistance                         | ≥ 200 MΩ*km (at 20 °C)                          |
| Conductor resistance                          | max. 57 Ω/km (at 20 °C)                         |
| Nominal voltage, cable                        | ≤ 300 V                                         |
| Test voltage, cable                           | ≥ 3000 V                                        |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)    |
|                                               | -25 °C ... 80 °C (cable, flexible installation) |

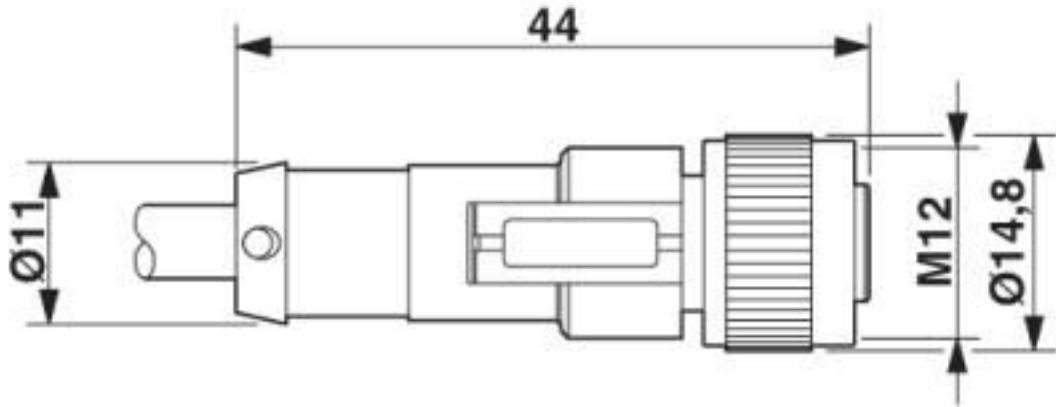
### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

## Sensor/actuator cable - SAC-4P-25,0-500/M12FS - 1544992

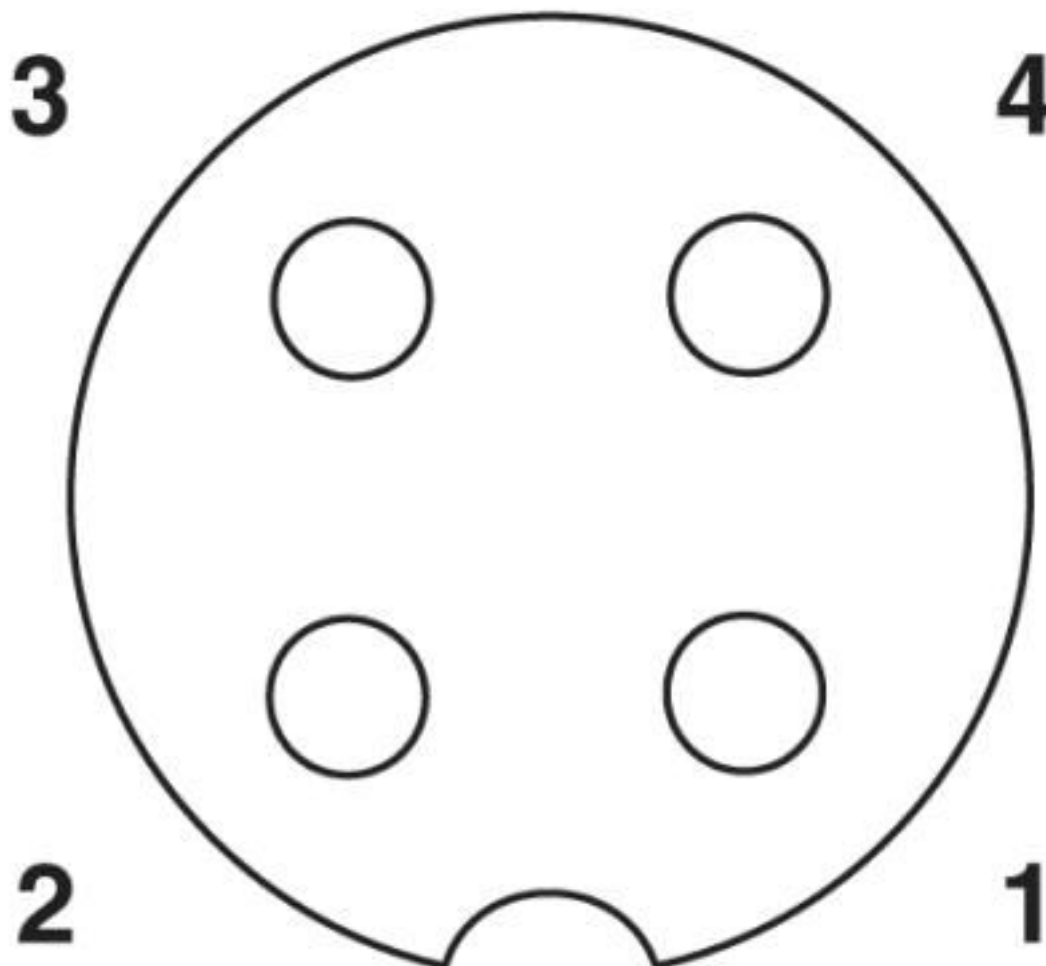
Dimensional drawing



M12 x 1 socket, straight

## Sensor/actuator cable - SAC-4P-25,0-500/M12FS - 1544992

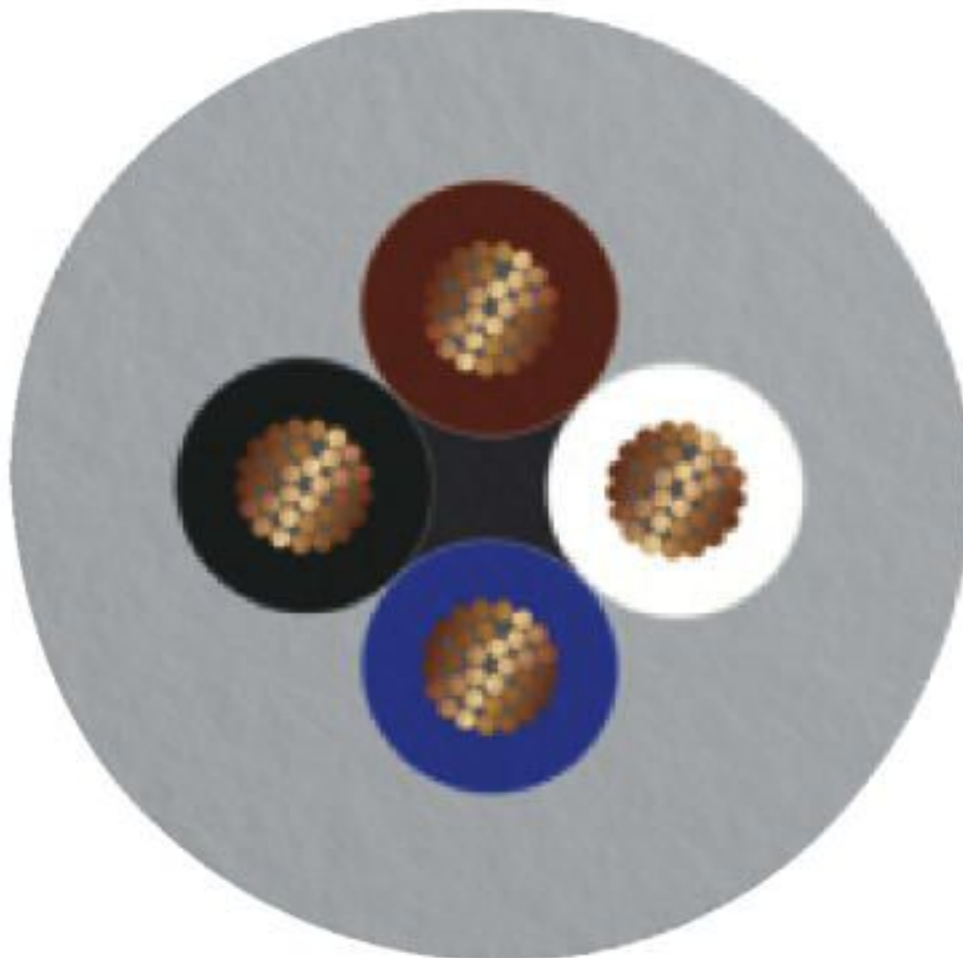
Schematic diagram



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

## Sensor/actuator cable - SAC-4P-25,0-500/M12FS - 1544992

Cable cross section



PVC gray [500]

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 11.0   | 27060311 |
| eCl@ss 4.0    | 27060300 |
| eCl@ss 4.1    | 27060300 |
| eCl@ss 5.0    | 27061800 |
| eCl@ss 5.1    | 27061800 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279218 |
| eCl@ss 8.0    | 27279218 |
| eCl@ss 9.0    | 27060311 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |
| UNSPSC 19.0   | 31251501 |
| UNSPSC 20.0   | 31251501 |
| UNSPSC 21.0   | 31251501 |

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
| Nominal voltage UN | 300 V                                                                               |                                                                                                                                                       |               |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
| Nominal voltage UN | 300 V                                                                               |                                                                                                                                                       |               |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |

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### Approvals

|              |                                                                                   |                          |
|--------------|-----------------------------------------------------------------------------------|--------------------------|
| EAC-RoHS     |  | RU D-<br>DE.HB35.B.00387 |
| EAC          |  | RU C-<br>DE.BL08.B.00286 |
| cULus Listed |  |                          |

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