

## Sensor/Actuator cable - SAC-5P-M12MS/25,0-PUR/M12FS SH - 1530854

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Sensor/Actuator cable, 5-position, PUR halogen-free, Black-gray RAL 7021, shielded, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 25 m



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 1        |
| Minimum order quantity               | 25 1       |
| Weight per Piece (excluding packing) | 1306.0 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Poland     |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 25 m |
|-----------------|------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

#### General

|                             |              |
|-----------------------------|--------------|
| Rated current at 40°C       | 4 A          |
| Number of positions         | 5            |
| Contact resistance          | ≤ 5 mΩ       |
| Coding                      | A - standard |
| Status display              | No           |
| Insertion/withdrawal cycles | ≥ 100        |

#### Material

|                          |       |
|--------------------------|-------|
| Contact material         | CuSn  |
| Contact surface material | Ni/Au |

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## Technical data

### Cable

|   |  |
|---|--|
| Cable type                                    | PUR halogen-free black shielded  |
| Cable abbreviation                            | Li9Y-V1-C-V1-11Y   |
| Conductor cross section                       | 0.34 mm <sup>2</sup>   |
| AWG signal line                               | 22   |
| Conductor structure signal line               | 42x 0.10 mm  |
| Core diameter including insulation            | 1.27 mm ±0.02 mm   |
| Thickness, insulation                         | approx. 0.21 mm (Core insulation)<br>approx. 0.8 mm (Outer cable sheath) |
| Wire colors                                   | Brown, white, blue, black, gray  |
| Overall twist                                 | 5 wires around filler to the core  |
| Shielding                                     | Braided copper wires   |
| Optical shield covering                       | 85 %   |
| External sheath, color                        | Black-gray RAL 7021  |
| External cable diameter                       | 5.90 mm  |
| Smallest bending radius, fixed installation   | 59 mm  |
| Smallest bending radius, movable installation | 59 mm  |
| Number of bending cycles                      | 4000000  |
| Bending radius                                | 59 mm  |
| Traversing path                               | 10 m   |
| Traversing rate                               | 3 m/s  |
| Acceleration                                  | 10 m/s <sup>2</sup>  |
| Cable weight                                  | 48 kg/km   |
| Outer sheath, material                        | PUR  |
| Material, filler                              | PE   |
| Material conductor insulation                 | PP   |
| Conductor material                            | Bare Cu litz wires   |
| Insulation resistance                         | ≥ 100 GΩ*km  |
| Conductor resistance                          | max. 58 Ω/km   |
| Nominal voltage, cable                        | 300 V  |
| Test voltage, cable                           | 3000 V   |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / cULus Listed

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

|                    |     |
|--------------------|-----|
| UL Listed          |     |
| Nominal current IN | 4 A |

# Sensor/Actuator cable - SAC-5P-M12MS/25,0-PUR/M12FS SH - 1530854

## Approvals

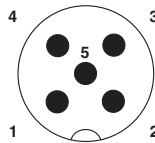
|                    |       |
|--------------------|-------|
| Nominal voltage UN | 125 V |
|--------------------|-------|

|                    |       |
|--------------------|-------|
| cUL Listed         |       |
| Nominal current IN | 4 A   |
| Nominal voltage UN | 125 V |

|              |  |
|--------------|--|
| cULus Listed |  |
|--------------|--|

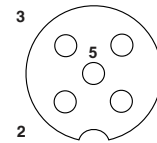
## Drawings

Schematic diagram



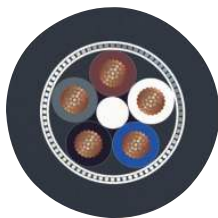
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



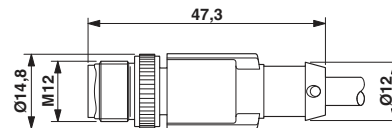
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



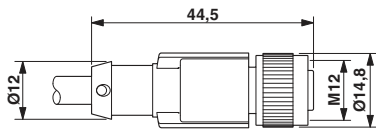
PUR halogen-free black shielded [PUR]

Dimensioned drawing



# Sensor/Actuator cable - SAC-5P-M12MS/25,0-PUR/M12FS SH - 1530854

Dimensioned drawing



Circuit diagram



Diagram

