

## Sensor/Actuator cable - SAC-5P-MS/ 5,0-PUR/FS SCO - 1553323

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



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Minimum order quantity               | 50 1      |
| Weight per Piece (excluding packing) | 208.0 GRM |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland    |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

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

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 4 A          |
| Rated voltage         | 60 V         |
| Number of positions   | 5            |
| Contact resistance    | ≤ 5 mΩ       |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |
| Status display        | No           |

## Sensor/Actuator cable - SAC-5P-MS/ 5,0-PUR/FS SCO - 1553323

### Technical data

#### General

|                        |    |
|------------------------|----|
| Surge voltage category | II |
| Pollution degree       | 3  |

#### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | HB  |
| 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   |

#### Cable

|                                    |   |
|------------------------------------|---|
| Cable type                         | PUR halogen-free black                  |
| Cable abbreviation                 | Li9Y11Y-HF                              |
| 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 ±0.05 mm                        |
| Thickness, insulation              | ≥ 0.21 mm (Core insulation)             |
|                                    | approx. 0.7 mm (Outer cable sheath)     |
| Wire colors                        | brown, blue, white, black, green/yellow |
| Overall twist                      | 5 cores, twisted                        |
| External sheath, color             | Black-gray RAL 7021                     |
| External cable diameter            | 5.00 mm                                 |
| Number of bending cycles           | 4000000                                 |
| Bending radius                     | 50 mm                                   |
| Traversing path                    | 10 m                                    |
| Traversing rate                    | 3 m/s                                   |
| Cable weight                       | 35 kg/km                                |
| Outer sheath, material             | PUR                                     |
| Material, filler                   | PP                                      |
| Material conductor insulation      | PP                                      |
| Conductor material                 | Bare Cu litz wires                      |
| Insulation resistance              | ≥ 100 GΩ*km                             |
| Conductor resistance               | ≤ 58 Ω/m                                |
| Nominal voltage, cable             | 300 V                                   |
| Test voltage, cable                | 3000 V                                  |

## Sensor/Actuator cable - SAC-5P-MS/ 5,0-PUR/FS SCO - 1553323

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| 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

# Sensor/Actuator cable - SAC-5P-MS/ 5,0-PUR/FS SCO - 1553323

## Approvals

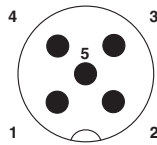
|                    |       |
|--------------------|-------|
| UL Listed          |       |
| Nominal current IN | 4 A   |
| Nominal voltage UN | 125 V |

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

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

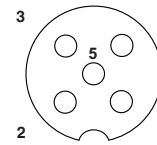
## Drawings

Schematic diagram



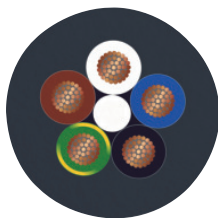
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



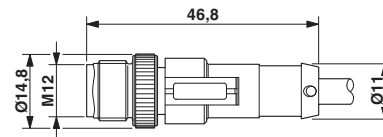
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



PUR halogen-free black [PUR]

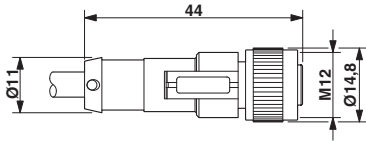
Dimensioned drawing



M12 x 1 plug, straight

# Sensor/Actuator cable - SAC-5P-MS/ 5,0-PUR/FS SCO - 1553323

Dimensioned drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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