

## Sensor/Actuator cable - SAC-8P-10,0-PVC/M12FS - 1415727

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Sensor/Actuator cable, 8-position, PVC, Black RAL 9005, free cable end, on Socket straight M12, A-coded, Cable length: 10 m

### Product Features

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



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444290 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 m |
|-----------------|------|

#### Ambient conditions

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

#### General

|                       |              |
|-----------------------|--------------|
| Rated current at 40°C | 2 A          |
| Rated voltage         | 30 V         |
| Number of positions   | 8            |
| Contact resistance    | ≤ 5 mΩ       |
| Insulation resistance | ≥ 100 MΩ     |
| Coding                | A - standard |

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## Technical data

### General

|                              |                               |
|------------------------------|-------------------------------|
| Standards/regulations        | M12 connector IEC 61076-2-101 |
| Status display               | No                            |
| Protective circuit/component | Unwired                       |
| Surge voltage category       | II                            |
| Pollution degree             | 3                             |
| Insertion/withdrawal cycles  | ≥ 100                         |

### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | HB  |
| Contact material                        | CuZn  |
| 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                                    | PVC black  |
| Cable type (abbreviation)                     | PVC  |
| Cable abbreviation                            | LiYY   |
| UL AWM style                                  | 2464 / 1729 (80°C/300 V)                           |
| Conductor cross section                       | 8x 0.25 mm <sup>2</sup> (signal line)              |
| AWG signal line                               | 24   |
| Conductor structure signal line               | 14x 0.15 mm  |
| Core diameter including insulation            | 1.17 mm ±0.05 mm                                   |
| Thickness, insulation                         | ≥ 0.23 mm  |
| Wire colors                                   | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist                                 | 8 wires around filler to the core                  |
| External sheath, color                        | Black RAL 9005                                     |
| Outer sheath thickness                        | ≥ 0.76 mm  |
| External cable diameter D                     | 5.9 mm ±0.2 mm                                     |
| Minimum bending radius, fixed installation    | 5 x D  |
| Minimum bending radius, flexible installation | 10 x D   |
| Cable weight                                  | 54 kg/km   |
| Outer sheath, material                        | PVC  |
| Material conductor insulation                 | PVC  |
| Conductor material                            | Bare Cu litz wires                                 |
| Insulation resistance                         | ≥ 200 MΩ*km (at 20 °C)                             |

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## Technical data

### Cable

|                        |                    |
|------------------------|--------------------|
| Conductor resistance   | 79 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC         |
| Test voltage, cable    | ≥ 3000 V AC        |

## Classifications

### eCl@ss

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

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

## 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  | 2 A  |
| Nominal voltage UN  | 30 V |

## Sensor/Actuator cable - SAC-8P-10,0-PVC/M12FS - 1415727

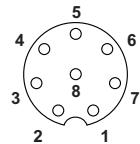
### Approvals

|  |      |
|--|------|
| cUL Listed  |      |
| Nominal current IN   | 2 A  |
| Nominal voltage UN   | 30 V |

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

### Drawings

Schematic diagram



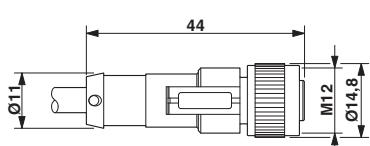
Pin assignment M12 socket, 8-pos., A-coded, view female side

Cable cross section



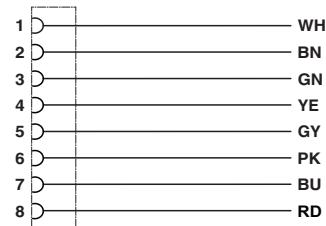
PVC black [PVC]

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 socket