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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Sensor/actuator cable - SAC-8P-M 8MS/ 0,3-PUR/M 8FR - 1404201

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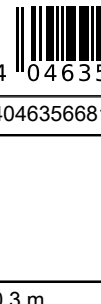
Sensor/actuator cable, 8-position, PUR halogen-free, black RAL 9005, Plug straight M8, on Socket angled M8, cable length: 0.3 m

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Our standard: robust halogen-free PUR cable
- Save space – with high-pos. connectors

RoHS

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         |  4 046356 681216 |
| GTIN         | 4046356681216   |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.3 m |
|-----------------|-------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP68                             |

#### General

|                       |          |
|-----------------------|----------|
| Rated current at 40°C | 1.5 A    |
| Rated voltage         | 30 V AC  |
|                       | 30 V DC  |
| Number of positions   | 8        |
| Insulation resistance | ≥ 100 MΩ |

# Sensor/actuator cable - SAC-8P-M 8MS/ 0,3-PUR/M 8FR - 1404201

## Technical data

### General

|                              |                              |
|------------------------------|------------------------------|
| Coding                       | A - standard                 |
| Standards/regulations        | M8 connector IEC 61076-2-104 |
| Status display               | No                           |
| Protective circuit/component | Unwired                      |
| Degree of pollution          | 3                            |
| Insertion/withdrawal cycles  | ≥ 100                        |
| Torque                       | 0.2 Nm (M8 connectors)       |

### Material

|  |   |
|--|---|
| Flammability rating 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                |

### Standards and Regulations

|  |                 |
|--|-----------------|
| Standard designation                   | M8 connector    |
| Standards/regulations                  | IEC 61076-2-104 |
| Flammability rating according to UL 94 | HB              |

### Cable

|   |  |
|---|--|
| Cable abbreviation                            | Li9Y11Y  |
| UL AWM style                                  | 20549  |
| Conductor cross section                       | 8x 0.14 mm <sup>2</sup> (Signal line)              |
| AWG signal line                               | 26   |
| Conductor structure signal line               | 18x 0.10 mm  |
| Core diameter including insulation            | 1 mm ±0.02 mm (Signal line)                        |
| Thickness, insulation                         | ≥ 0.21 mm (Signal line)                            |
|   | ≥ 0.38 mm (Outer cable sheath)                     |
| Wire colors                                   | white, brown, green, yellow, gray, pink, blue, red |
| Overall twist                                 | 8 wires around filler to the core                  |
| Length of twist, overall twist                | 58 mm  |
| External sheath, color                        | black-gray RAL 7021                                |
| External cable diameter D                     | 5.1 mm ±0.15 mm                                    |
| Smallest bending radius, fixed installation   | 25.5 mm  |
| Smallest bending radius, movable installation | 51 mm  |
| Number of bending cycles                      | 4000000  |
| Bending radius                                | 51 mm  |
| Traversing path                               | 10 m   |
| Traversing rate                               | 3 m/s  |
| Acceleration                                  | 10 m/s <sup>2</sup>                                |

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## Technical data

### Cable

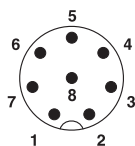
|                                 |  |
|---------------------------------|--|
| Outer sheath, material          | PUR  |
| Material, filler                | PE   |
| Material conductor insulation   | PP   |
| Conductor material              | Bare Cu litz wires   |
| Insulation resistance           | 1 GΩ*km (at 20 °C)   |
| Conductor resistance            | 139 Ω/km (at 20 °C)  |
| Nominal voltage, cable          | ≤ 300 V AC   |
| Test voltage, cable             | ≥ 3000 V AC (Spark test)                                   |
| Flame resistance                | according to UL 758/1581 (horizontal)                      |
|                                 | in accordance with UL 758/1581 FT2                         |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                   |
|                                 | in accordance with DIN EN 50267-2-1                        |
| Resistance to oil               | According to DIN EN 60811-2-1, 168 h at 100°C              |
| Other resistance                | hydrolysis and microbe resistant                           |
|                                 | Resistant to salt water                                    |
|                                 | Low adhesion   |
|                                 | abrasion-resistant   |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)               |
|                                 | -25 °C ... 80 °C (cable, flexible installation)            |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

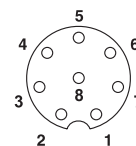
## Drawings

Schematic diagram



M8 plug pin assignment, 8-pos., view of pin side

Schematic diagram



Connector pin assignment of M8 socket, 8-pos., view of socket side

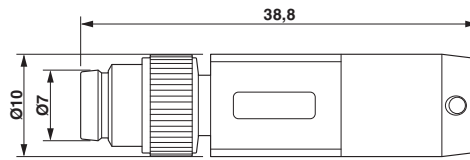


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Cable cross section



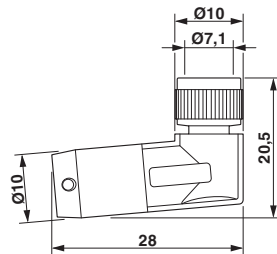
Dimensional drawing



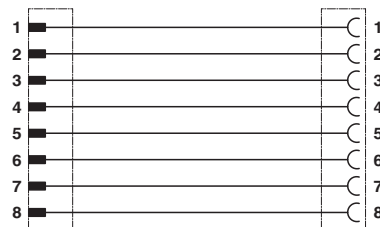
PUR halogen-free black [PUR]

M8 x 1 male plug, straight version

Dimensional drawing



Circuit diagram



Socket M8 x 1, angled

Contact assignment of M8 plugs/sockets

## Approvals

### Approvals

Approvals

UL Listed / cUL Listed / 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 | 30 V  |   |               |
| Nominal current IN | 1.5 A |   |               |

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## Approvals

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

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