

# SAC-8P-M 8MS/ 0,6-PUR/M 8FS SH - Sensor/actuator cable



1404134

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M8, coding: A, on Socket straight M8, coding: A, cable length: 0.6 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save space – with high-pos. connectors
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1404134                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF01                           |
| Product key                          | AF1BNA                         |
| GTIN                                 | 4046356680455                  |
| Weight per piece (including packing) | 43.6 g                         |
| Weight per piece (excluding packing) | 43.6 g                         |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 8                     |
| No. of cable outlets | 1                     |
| Shielded             | yes                   |
| Coding               | A                     |

### Insulation characteristics

|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

### Material specifications

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | HB                                          |
| Seal material                          | NBR                                         |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn                                        |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 30 V AC                    |
|                       | 30 V DC                    |
| Nominal current $I_N$ | 1.5 A                      |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Connection data

#### Conductor connection

|                   |                        |
|-------------------|------------------------|
| Tightening torque | 0.2 Nm (M8 connectors) |
|-------------------|------------------------|

### Connector

#### Connection 1

|      |                  |
|------|------------------|
| Type | Plug straight M8 |
|------|------------------|

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|                     |   |
|---------------------|---|
| Number of positions | 8 |
| Coding type         | A |

## Connection 2

|                     |                    |
|---------------------|--------------------|
| Type                | Socket straight M8 |
| Number of positions | 8                  |
| Coding type         | A                  |

## Cable/line

|              |       |
|--------------|-------|
| Cable length | 0.6 m |
|--------------|-------|

## PUR halogen-free black [PUR]

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 45 kg/km                                                                            |
| UL AWM Style                    | 20549                                                                               |
| Number of positions             | 8                                                                                   |
| Shielded                        | yes                                                                                 |
| Cable type                      | PUR halogen-free black [PUR]                                                        |
| Conductor structure signal line | 18x 0.10 mm                                                                         |
| AWG signal line                 | 26                                                                                  |
| Conductor cross section         | 8x 0.14 mm <sup>2</sup> (Signal line)                                               |
| Wire diameter incl. insulation  | 1 mm ±0.02 mm (Signal line)                                                         |
| External cable diameter         | 5.90 mm ±0.2 mm                                                                     |
| Outer sheath, material          | PUR                                                                                 |
| External sheath, color          | black-gray RAL 7021                                                                 |
| Conductor material              | Bare Cu litz wires                                                                  |
| Material, filler                | PE                                                                                  |
| Material wire insulation        | PP                                                                                  |
| Single wire, color              | white, brown, green, yellow, gray, pink, blue, red                                  |
| Thickness, insulation           | ≥ 0.21 mm (Signal line)<br>≥ 0.38 mm (Outer cable sheath)                           |
| Overall twist                   | 8 wires around filler to the core                                                   |
| Length of twist, overall twist  | 58 mm                                                                               |
| Optical shield covering         | 85 %                                                                                |
| Max. conductor resistance       | 139 Ω/km (at 20 °C)                                                                 |
| Insulation resistance           | 1 GΩ*km (at 20 °C)                                                                  |
| Nominal voltage, cable          | ≤ 300 V AC                                                                          |
| Test voltage                    | ≥ 3000 V AC (Spark test)                                                            |

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|                                               |                                                                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Test voltage Core/Shield                      | ≥ 2000.00 V AC (for 60 s)                                                                                                             |
| Smallest bending radius, fixed installation   | 29.5 mm                                                                                                                               |
| Smallest bending radius, movable installation | 59 mm                                                                                                                                 |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000, Bending radius: 59 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup> |
| Dynamic load capacity (torsion)               | Torsion: ±180 °/m, Torsion cycles: ≥1000000, Torsional frequency: 35 cycles/min.                                                      |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815                                                                                              |
|                                               | in accordance with DIN EN 50267-2-1                                                                                                   |
| Flame resistance                              | according to UL 758/1581 (horizontal)                                                                                                 |
|                                               | in accordance with UL 758/1581 FT2                                                                                                    |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1                                                                                                   |
| Other resistance                              | hydrolysis and microbe resistant                                                                                                      |
|                                               | Resistant to salt water                                                                                                               |
|                                               | Low adhesion                                                                                                                          |
|                                               | abrasion-resistant                                                                                                                    |
| Ambient temperature (operation)               | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)                                                                          |
|                                               | -40 °C ... 80 °C (cable, fixed installation)                                                                                          |
|                                               | -25 °C ... 80 °C (Cable, flexible installation)                                                                                       |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### M8

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M8 connector    |
| Standards/specifications | IEC 61076-2-104 |

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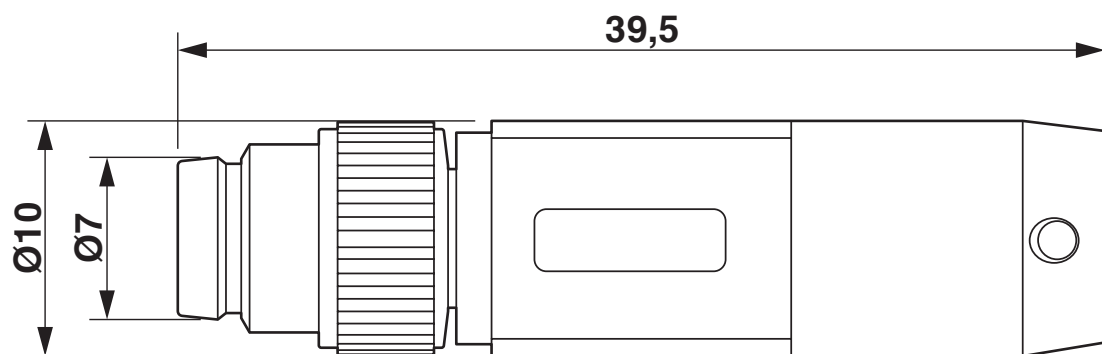


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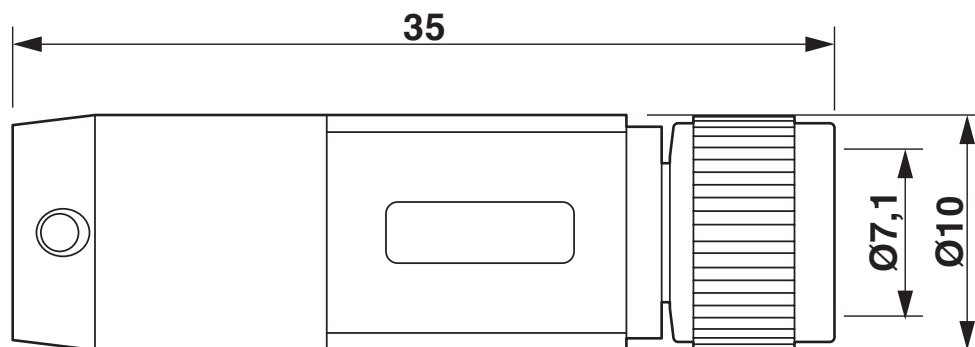
## Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Dimensional drawing



Socket M8 x 1, straight

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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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Circuit diagram



Contact assignment of M8 plugs/sockets

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Approvals

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|                                                                                                                                             |                                |                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <div><b>UL Listed</b><br/>Approval ID: FILE E 221474</div> |                                |                                |                   |                               |
|                                                                                                                                             | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                       |                                |                                |                   |                               |
|                                                                                                                                             | 30 V                           | 1.5 A                          | -                 | -                             |

|                                                                                                                                              |                                |                                |                   |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
| <div><b>cUL Listed</b><br/>Approval ID: FILE E 221474</div> |                                |                                |                   |                               |
|                                                                                                                                              | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                        |                                |                                |                   |                               |
|                                                                                                                                              | 30 V                           | 1.5 A                          | -                 | -                             |

|                                                                                                                                                     |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <div><b>EAC-RoHS</b><br/>Approval ID: RU D-DE.HB35.B.00387</div> |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 1.803 kg CO2e                            |

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