



Automatización Eléctrica
Especialistas en Automatización

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Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

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Sensor/Actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, shielded, free cable end, on Socket angled M8, Cable length: 10 m

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Our standard: robust halogen-free PUR cable
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 021210 |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 10 m |
| Stripping length of the free conductor end | 50 mm |

Ambient conditions

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

General

| | |
|------------------------------|------------------------------|
| Rated current at 40°C | 1.5 A |
| Rated voltage | 30 V |
| Number of positions | 6 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M8 connector IEC 61076-2-104 |
| Status display | No |
| Protective circuit/component | Unwired |
| Overvoltage category | II |
| Degree of pollution | 3 |

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Technical data

General

| | |
|-----------------------------|------------------------|
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.2 Nm (M8 connectors) |

Material

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

Standards and Regulations

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

Cable

| | |
|---|---|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Conductor cross section | 6x 0.14 mm ² (Signal line) |
| AWG signal line | 26 |
| Conductor structure signal line | 18x 0.10 mm |
| Core diameter including insulation | 1.05 mm ±0.02 mm |
| Wire colors | Brown, white, black, blue, gray, pink |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter | 5.20 mm |
| Smallest bending radius, fixed installation | 52 mm |
| Smallest bending radius, movable installation | 52 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 52 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Cable weight | 34 kg/km |
| Outer sheath, material | PUR |
| Conductor material | Bare Cu litz wires |
| Special properties | Flexible cable conduit capable |
| | Silicone-free |
| | Free of substances which would hinder coating with paint or varnish |
| Flame resistance | in accordance with DIN UL-Style 20549 |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |

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Technical data

Cable

| | |
|---------------------------------|--|
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
| | hydrolysis and microbe resistant |
| | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 80 °C (cable, flexible installation) |

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 | 27279218 |

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

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Sensor/Actuator cable - SAC-6P-10,0-PUR/M 8FR SH - 1522477

Approvals

Approvals submitted

Approval details

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

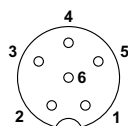
| | |
|--------------------|-------|
| cUL Listed | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 125 V |

| |
|-----|
| EAC |
|-----|

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

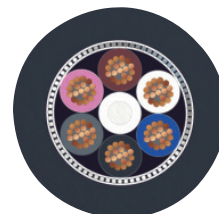
Drawings

Schematic diagram



Pin assignment M8 socket, 6-pos.

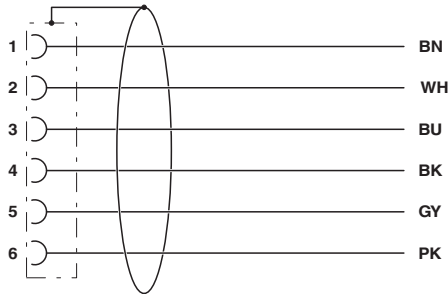
Cable cross section



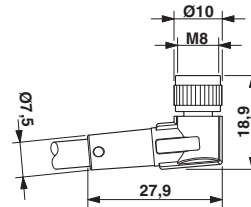
PUR halogen-free black [PUR]

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Circuit diagram



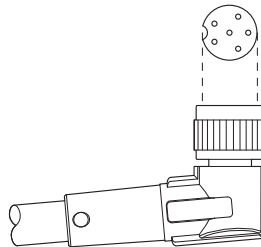
Dimensional drawing



Socket M8 x 1, angled

Contact assignment of M8 socket

Schematic diagram



Layout of connector pin assignments

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