

Sensor/actuator cable - SAC-3P-M12MS/ 6,0-116/A-1L-Z - 1412448

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Sensor/actuator cable, 3-position, PUR/PVC, black RAL 9005, Plug straight M12, A-coded, on Valve connector A, with 1 LED, connected with Z diode, cable length: 6 m

The figure shows the SPEEDCON version



Key Commercial Data

| | |
|------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN | |
| GTIN | 4046356962773 |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 6 m |
|-----------------|-----|

General

| | |
|------------------------------|--------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 24 V AC |
| | 24 V DC |
| Number of positions | 3 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Status display | 1 LED |
| Protective circuit/component | Z diode |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 |

Material

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Technical data

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Valve plug contact material | CuSn |
| Valve plug contact surface material | Sn |
| Valve plug contact insert material | PA 6.6 |
| Material housing valve plug | TPU |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | TPU (Seal molded) |

Standards and Regulations

| | |
|--|--|
| Flame resistance | in accordance with DIN UL-Style 20549 |
| Other resistance | Highly resistant to acids, alkaline solutions and solvents |
| | hydrolysis and microbe resistant |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|---|---------------------------------------|
| Cable type | PUR/PVC, 0.75 mm ² , black |
| Cable type (abbreviation) | 116 |
| Cable abbreviation | LiYY11Y |
| UL AWM style | 20549 |
| Conductor cross section | 3x 0.75 mm ² |
| AWG signal line | 18 |
| Conductor structure signal line | 24x 0.20 mm |
| Core diameter including insulation | 1.7 mm ±0.05 mm |
| Wire colors | black 1, black 2, green/yellow |
| Overall twist | 3 wires, twisted |
| External sheath, color | black RAL 9005 |
| External cable diameter D | 5.8 mm ±0.2 mm |
| Minimum bending radius, flexible installation | 10 x D |
| Number of bending cycles | 1000000 |
| Traversing rate | 2 m/s |
| Acceleration | 2.5 m/s ² |
| Outer sheath, material | PUR |
| Material, inner sheath | PVC |
| Material conductor insulation | PVC |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 20 MΩ*km |
| Conductor resistance | 26 Ω/km (at 20 °C) |
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 1200 V |

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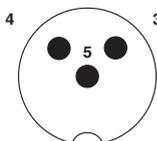
Technical data

Cable

| | |
|---------------------------------|--|
| Special properties | flexible |
| Flame resistance | DIN VDE 0482 |
| | DIN EN 50265-2-1 |
| | in acc. with UL FT-2 |
| Other resistance | Low adhesion |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -5 °C ... 80 °C (cable, flexible installation) |

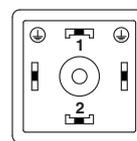
Drawings

Schematic diagram



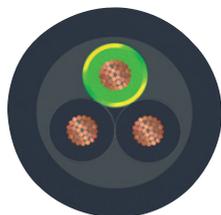
Pin assignment M12 plug, 3-pos., valve connector

Schematic diagram



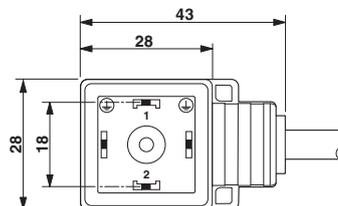
Valve connector pin assignment, type A

Cable cross section



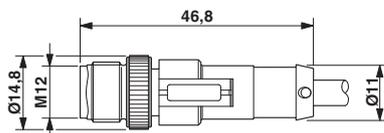
PUR/PVC black [116]

Dimensional drawing



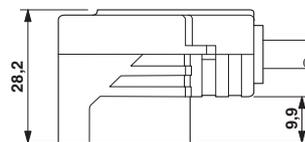
Valve connector, type A

Dimensional drawing



Plug, M12 x 1, straight, shielded

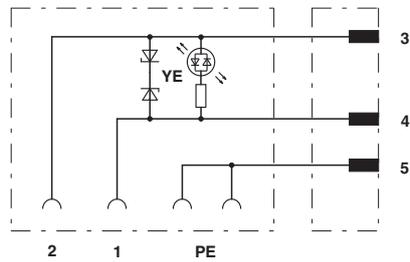
Dimensional drawing



Valve connector, type A, side view

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Circuit diagram



Contact assignment of M12 plug and valve connector

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