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Sensor/Actuator cable - SAC-5P-MS/ 1,5-PUR/AD-2L SCO - 1435056

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Sensor/Actuator cable, 5-position, PUR halogen-free, black RAL 9005, Plug straight M12 SPEEDCON, A-coded, on Valve connector AD (pressure switch), with 2 LEDs, Cable length: 1.5 m

Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Robust valve connector without protective circuit
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 413428 |

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| | -20 °C ... 85 °C (valve plug) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|-------------------------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 24 V |
| Number of positions | 5 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |

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Technical data

General

| | |
|------------------------------|-------------------------------|
| | Valve connector EN 175301-803 |
| Status display | 2 LEDs |
| Protective circuit/component | Unwired |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Insertion/withdrawal cycles | ≥ 100 (M12 connector) |
| Torque | 0.4 Nm (M12 connector) |
| | 0.6 Nm (Valve connector) |

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU |
| Valve plug contact material | CuSn |
| Valve plug contact surface material | Sn |
| Valve plug contact insert material | PA 6 |
| Material housing valve plug | TPU |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | TPU (Seal molded) |

Standards and Regulations

| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Standard designation | Valve connector |
| Standards/regulations | EN 175301-803 |
| Flammability rating according to UL 94 | V0 |

Cable

| | |
|------------------------------------|--|
| Cable type | PUR halogen-free black |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | Li9Y11Y-HF |
| UL AWM style | 20549 |
| Conductor cross section | 5x 0.5 mm ² |
| AWG signal line | 20 |
| Conductor structure signal line | 28x 0.15 mm |
| Core diameter including insulation | 1.5 mm ±0.05 mm (Signal line) |
| Wire colors | Black 1, black 2, black 3, black 4, green/yellow |
| Overall twist | 5 cores, twisted |
| External sheath, color | black-gray RAL 7021 |
| External cable diameter D | 5.3 mm ±0.02 mm |

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Technical data

Cable

| | |
|---|---|
| Smallest bending radius, fixed installation | 26.5 mm |
| Smallest bending radius, movable installation | 53 mm |
| Number of bending cycles | 15000000 |
| Bending radius | 50 mm |
| Traversing path | 0.9 m |
| Traversing rate | 5 m/s |
| Acceleration | 30 m/s ² |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | min. 20 MΩ*km |
| Conductor resistance | 39 Ω/km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V |
| Test voltage, cable | ≥ 1200 V |
| 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 |
| 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 |
| | Largely oil-resistant |
| | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °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 |
| eCl@ss 9.0 | 27060312 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
|----------|----------|

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Classifications

ETIM

| | |
|----------|----------|
| 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

EAC

Ex Approvals

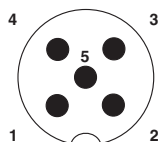
Approvals submitted

Approval details

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

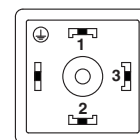
Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

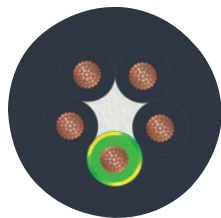
Schematic diagram



Valve plug connector pin assignment, type AD

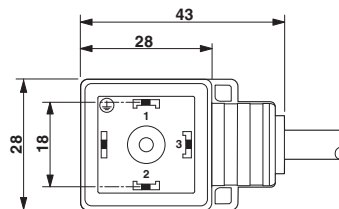
Sensor/Actuator cable - SAC-5P-MS/ 1,5-PUR/AD-2L SCO - 1435056

Cable cross section



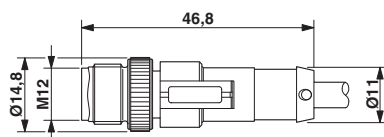
PUR halogen-free black [PUR]

Dimensional drawing



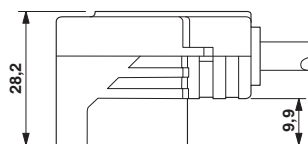
Valve connector, type AD

Dimensional drawing



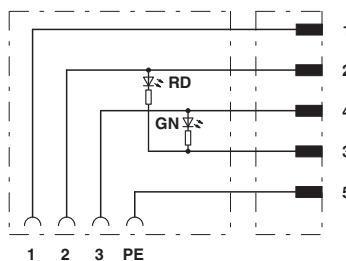
M12 SPEEDCON plug, straight

Dimensional drawing



Valve connector, type AD, side view

Circuit diagram



Contact assignment of M12 plug and valve connector

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