

Sensor/Actuator cable - SAC-12P-MS/ 5,0-PUR SCO - 1430556

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Sensor/Actuator cable, 12-position, PUR halogen-free, Black RAL 9005, Plug straight M12 SPEEDCON, A-coded, on free cable end, Cable length: 5 m

Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Save space – with high-pos. connectors



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 300.0 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 5 m |
| Stripping length of the free conductor end | 35 mm |

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |

General

| | |
|-----------------------|-------|
| Rated current at 40°C | 1.5 A |
|-----------------------|-------|

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Technical data

General

| | |
|------------------------------|-------------------------------|
| Rated voltage | 30 V |
| Number of positions | 12 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Protective circuit/component | Unwired |
| Surge voltage category | II |
| Pollution degree | 3 |
| Torque | 0.4 Nm (M12 connector) |

Material

| | |
|---|---|
| Inflammability class according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 66 |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |

Cable

| | |
|------------------------------------|--|
| Conductor cross section | 12x 0.14 mm ² (signal line) |
| AWG signal line | 26 |
| Conductor structure signal line | 18x 0.10 mm |
| Core diameter including insulation | 1 mm ±0.05 mm (signal line) |
| Wire colors | White, brown, green, yellow, gray, pink, blue, red, black, violet, gray/pink, red/blue |
| Overall twist | 12 wires twisted in layers |
| External sheath, color | Black RAL 9005 |
| External cable diameter D | 7.2 mm |
| Number of bending cycles | 4000000 |
| Bending radius | 54 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Tin-plated Cu litz wires |
| Conductor resistance | 142 Ω/km |

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Technical data

Cable

| | |
|---------------------------------|---|
| Special properties | Low adhesion surface |
| Resistance to oil | DIN VDE 0472 Part 803, test type B |
| Other resistance | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| 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 | 27061801 |

ETIM

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

GOST

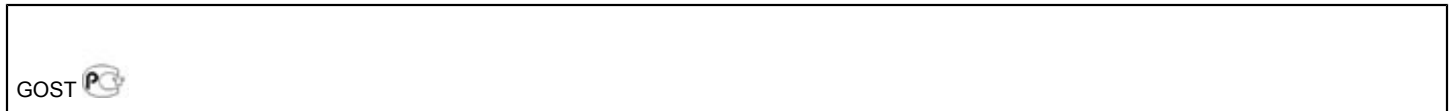
Ex Approvals

Sensor/Actuator cable - SAC-12P-MS/ 5,0-PUR SCO - 1430556

Approvals

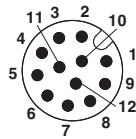
Approvals submitted

Approval details



Drawings

Schematic diagram



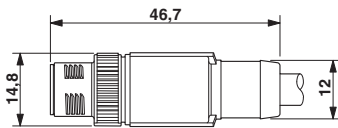
Pin assignment M12 male connector, 12-pos., male side view

Cable cross section



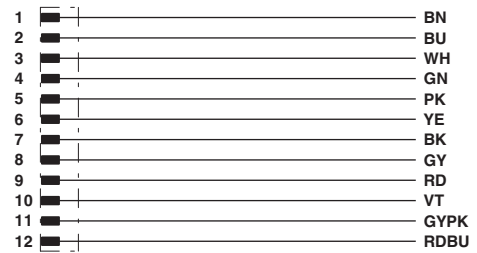
PUR halogen-free black [PUR]

Dimensioned drawing



M12 SPEEDCON plug, straight, shielded

Circuit diagram



Contact assignment of the M12 plug