

Sensor/Actuator cable - SAC-12P-M23MS/2,0-35T/FS SHSCO - 1437300

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Sensor/Actuator cable, 12-position, PUR/PVC, Black RAL 9005, shielded, Plug straight M23, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 2 m

Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Save space – with high-pos. connectors
- ✓ Reliable signal transmission – 360° shielding in environments with electromagnetic interference



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 261.2 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| | -40 °C ... 125 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|-------|
| Rated current at 40°C | 1.5 A |
| Rated voltage | 30 V |

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Technical data

General

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

| | |
|--------------------------|---------------------|
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PBT / PA 66 |
| Material of grip body | PUR |
| Material, knurls | Nickel-plated brass |

Cable

| | |
|------------------------------------|--|
| Cable type | Black PUR/PVC twisted pair |
| Cable type (abbreviation) | 35T |
| Conductor cross section | 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 18x 0.10 mm |
| Core diameter including insulation | 1 mm ±0.05 mm |
| Wire colors | White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue |
| Overall twist | Six pairs around the filler to the core |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | Black RAL 9005 |
| External cable diameter | 8.50 mm |
| Number of bending cycles | 2000000 |
| Bending radius | 85 mm |
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Outer sheath, material | PUR |
| Material, inner sheath | PVC |

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Technical data

Cable

| | |
|---------------------------------|---|
| Material conductor insulation | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Conductor resistance | 142 Ω/km |
| Flame resistance | DIN VDE 0472 part 804, test type B |
| 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

Sensor/Actuator cable - SAC-12P-M23MS/2,0-35T/FS SHSCO - 1437300

Approvals

Ex Approvals

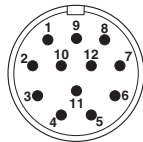
Approvals submitted

Approval details



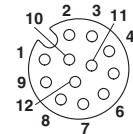
Drawings

Schematic diagram



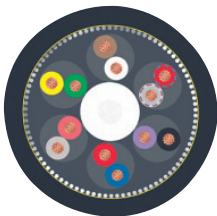
Plug pin assignment M23 plug, 12-pos., pin side view

Schematic diagram



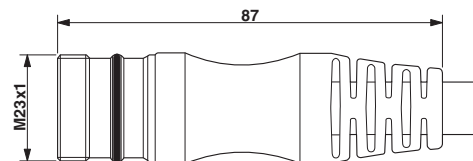
Pin assignment M12, 12-pos., female side view

Cable cross section



Black PUR/PVC twisted pair [35T]

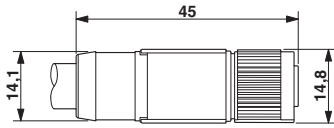
Dimensioned drawing



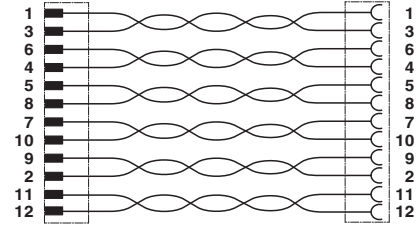
M23 plug, straight, shielded

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Dimensioned drawing



Circuit diagram



Socket M12-SPEEDCON, straight, shielded

Contact assignment of the M23 plug and the M12 socket