

Sensor/Actuator cable - SAC-4P-MRS/ 3,0-PUR PE SH SCO - 1424109

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Sensor/Actuator cable, 4-position, PUR halogen-free, Orange (RAL 2003), matt, shielded, Plug angled M12 SPEEDCON, S-coded, on Free cable end, Cable length: 3 m

Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: AC connectors for up to 12 A and 630 V AC
- ✓ Protection against incorrect connection using special S-coding
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads
- ✓ Save time, thanks to installation with SPEEDCON rapid interlock system
- ✓ Our standard: robust halogen-free PUR cable



Key commercial data

| | |
|----------------------|----------|
| Packing unit | 1 1 |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

Ambient conditions

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

General

| | |
|-----------------------|-------|
| Rated current at 40°C | 12 A |
| Rated voltage | 630 V |

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Technical data

General

| | |
|-----------------------------|---------------|
| Number of positions | 4 |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≤ 10 GΩ |
| Coding | S power |
| Standards/regulations | M12 connector |
| Status display | No |
| Surge voltage category | III |
| Pollution degree | 3 |
| Insertion/withdrawal cycles | > 100 |

Material

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

Cable

| | |
|---|--|
| Cable type | PUR halogen-free orange shielded |
| Cable type (abbreviation) | PUR |
| Cable abbreviation | 9YSLC11Y-JZ |
| UL AWM style | 20234 / 10492 (80°C/1000 V) |
| Conductor cross section | 4x 1.5 mm ² |
| AWG power supply | 16 |
| Conductor structure, voltage supply | 78x 0.15 mm |
| Core diameter including insulation | ≤ 2.5 mm |
| Thickness, insulation | 0.4 mm |
| Wire colors | Black 1, black 2, black 3, green/yellow |
| Overall twist | 4 wires optimally twisted |
| Shielding | Tinned copper-braided shield, approx. 85% covering |
| External sheath, color | orange RAL 2003 |
| Outer sheath thickness | 1.2 mm |
| External cable diameter D | 9.7 mm ±0.3 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 7.5 x D |
| Number of bending cycles | 4000000 |
| Minimum bending radius, drag chain applications | 10 x D |

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Technical data

Cable

| | |
|---------------------------------|---|
| Traversing path | 10 m |
| Traversing rate | 3 m/s |
| Acceleration | 10 m/s ² |
| Torsion force | ± 25 °/m |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 10 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 13.3 Ω/km (at 20 °C) |
| Nominal voltage, cable | 1000 V AC |
| Test voltage, cable | 4260 V AC (5 min.) |
| Flame resistance | According to EN 60332-1-2 |
| | According to UL 1581 VW1 |
| | According to CSA C 22.2 No. 210-05 FT1 |
| Halogen-free | According to VDE 0282-13 Appendix C |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| | According to DIN EN 50363-10-2 |
| Other resistance | UV resistant |
| | Low adhesion |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) |
| | -30 °C ... 90 °C (cable, flexible installation) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27449001 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

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Classifications

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

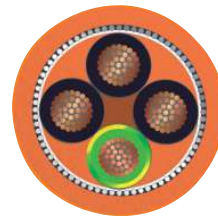
Drawings

Schematic diagram



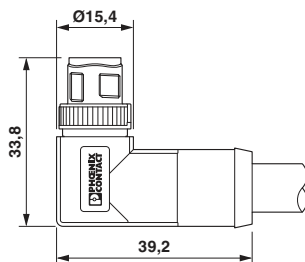
M12 plug pin assignment, 4-pos., S-coded, plug side view

Cable cross section



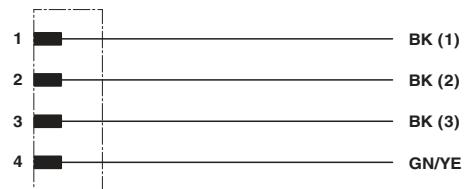
PUR halogen-free orange shielded [PUR]

Dimensioned drawing



M12 x 1 male plug, angled

Circuit diagram



Contact assignment of the M12 plug