

Sensor/Actuator cable - SAC-4P-MSS/ 3,0-PUR PE SH SCO - 1424105

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Sensor/Actuator cable, 4-position, PUR halogen-free, Orange (RAL 2003), matt, shielded, Plug straight 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 |

Sensor/Actuator cable - SAC-4P-MSS/ 3,0-PUR PE SH SCO - 1424105

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 |

Sensor/Actuator cable - SAC-4P-MSS/ 3,0-PUR PE SH SCO - 1424105

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 |

Sensor/Actuator cable - SAC-4P-MSS/ 3,0-PUR PE SH SCO - 1424105

Classifications

UNSPSC

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

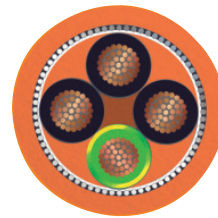
Drawings

Schematic diagram



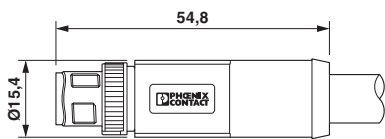
M12 plug pin assignment, 4-pos., S-coded, plug side view

Cable cross section



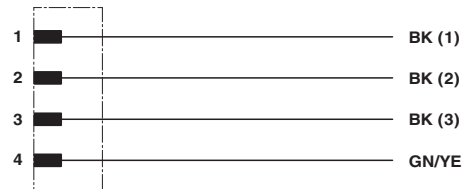
PUR halogen-free orange shielded [PUR]

Dimensioned drawing



M12 x 1 plug, straight

Circuit diagram



Contact assignment of the M12 plug