

## Power cable - SAC-4P-MRS/ 5,0-PUR PE SH SCO - 1424110

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Power cable, 4-position, PUR halogen-free, Orange (RAL 2003), matt, shielded, Plug angled M12 SPEEDCON, S-coded, on free cable end, Cable length: 5 m, For AC current up to 12 A/630 V

### Why buy this product

- ✓ 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 fast locking system
- ✓ Our standard: robust halogen-free PUR cable



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| GTIN                                 |          |
| Weight per Piece (excluding packing) | 751.4 g  |
| Custom tariff number                 | 85444290 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 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            |
| Protective circuit/component | Unwired       |
| Surge voltage category       | III           |
| Pollution degree             | 3             |
| Insertion/withdrawal cycles  | > 100         |

### Material

|   |   |
|---|---|
| Inflammability class according to UL 94 | V0  |
| 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 <sup>2</sup>                             |
| 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   |
| Traversing path                                 | 10 m   |
| Traversing rate                                 | 3 m/s  |
| Acceleration                                    | 10 m/s <sup>2</sup>                                |

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## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
| 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                       |
|                                 | in acc. 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 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
| 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 |

# Power cable - SAC-4P-MRS/ 5,0-PUR PE SH SCO - 1424110

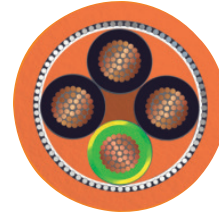
## Drawings

Schematic diagram



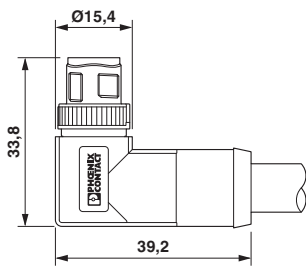
M12 plug pin assignment, 4-pos., S-coded, plug side view

Cable cross section



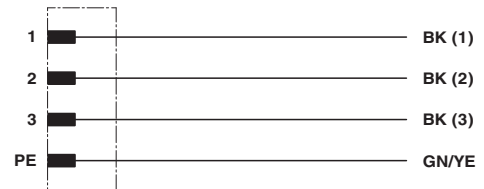
PUR halogen-free orange shielded [PUR]

Dimensioned drawing



M12 x 1 male plug, angled

Circuit diagram



Contact assignment of the M12 plug