

## Power cable - SAC-4P-MRT/ 5,0-PUR/FRT SH SCO - 1415204

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://phoenixcontact.com/download>)



Power cable, 4-position, PUR halogen-free, shielded, Plug angled M12 SPEEDCON, T-coded, on Socket angled M12 SPEEDCON, T-coded, Cable length: 5 m, for direct current up to 12 A/60 V

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- High-performance: DC connectors for up to 12 A and 60 V DC
- Protection against incorrect connection using special T-coding
- Save time, thanks to installation with SPEEDCON fast locking system
- Shield power reliably – 360° shielding to reduce electromagnetic loads
- Our standard: robust halogen-free PUR cable



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 STK    |
| Weight per Piece (excluding packing) | 760.0 g  |
| Custom tariff number                 | 85444290 |
| Country of origin                    | Germany  |

### Technical data

#### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | DOT 15571-58-1 |
|------------|----------------|

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

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

# Power cable - SAC-4P-MRT/ 5,0-PUR/FRT SH SCO - 1415204

## Technical data

### Ambient conditions

|  |      |
|--|------|
|  | IP67 |
|--|------|

### General

|                              |         |
|------------------------------|---------|
| Rated current at 40°C        | 12 A    |
| Rated voltage                | 60 V    |
| Number of positions          | 4       |
| Insulation resistance        | ≥ 10 GΩ |
| Coding                       | T power |
| Status display               | No      |
| Protective circuit/component | Unwired |
| Overvoltage category         | III     |
| Degree of pollution          | 3       |
| Insertion/withdrawal cycles  | > 100   |

### Material

|  |   |
|--|---|
| Flammability rating 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                |

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

### Cable

|   |  |
|---|--|
| Cable type                                  | PUR halogen-free black                             |
| Cable type (abbreviation)                   | PUR  |
| Cable abbreviation                          | LS9YC11Y-OB  |
| Conductor cross section                     | 4x 1.5 mm²   |
| AWG power supply                            | 16   |
| Core diameter including insulation          | 2.4 mm   |
| Thickness, insulation                       | 1.2 mm (Outer cable sheath)                        |
| Wire colors                                 | brown, white, blue, black                          |
| Overall twist                               | 4 wires optimally twisted                          |
| Shielding                                   | Tinned copper-braided shield, approx. 85% covering |
| External sheath, color                      | black RAL 9005                                     |
| External cable diameter D                   | 9.7 mm ±0,3 mm                                     |
| Smallest bending radius, fixed installation | 49 mm  |

## Power cable - SAC-4P-MRT/ 5,0-PUR/FRT SH SCO - 1415204

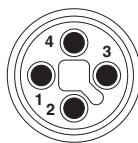
### Technical data

#### Cable

|   |   |
|---|---|
| Smallest bending radius, movable installation | 73 mm   |
| Number of bending cycles                      | 4000000   |
| Bending radius                                | 97 mm   |
| Traversing path                               | 10 m  |
| Traversing rate                               | 3 m/s   |
| Acceleration                                  | 10 m/s <sup>2</sup>                             |
| 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                        | 300 V AC  |
| Test voltage, cable                           | 1500 V AC (5 min.)                              |
| Flame resistance                              | According to EN 60332-1-2                       |
|   | in acc. to UL 1581 VW1                          |
| 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                  |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)    |
|   | -30 °C ... 90 °C (cable, flexible installation) |

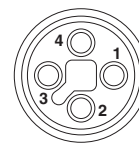
### Drawings

Schematic diagram



Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

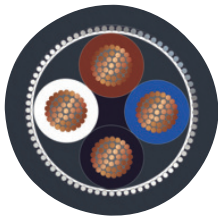
Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

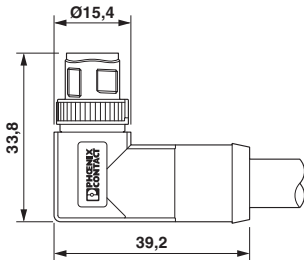
Power cable - SAC-4P-MRT/ 5,0-PUR/FRT SH SCO - 1415204

Cable cross section



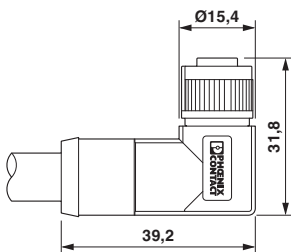
PUR halogen-free black [PUR]

Dimensional drawing



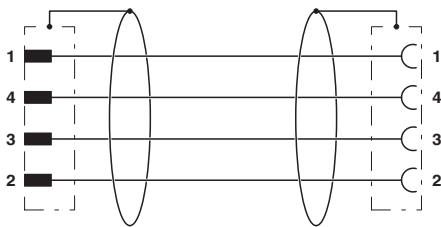
M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of M12 connector/socket

Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

## Power cable - SAC-4P-MRT/ 5,0-PUR/FRT SH SCO - 1415204

### Approvals

Ex Approvals

---

Approvals submitted

---

### Approval details

|                    |      |
|--------------------|------|
| UL Listed          |      |
|                    |      |
| mm²/AWG/kcmil      | 16   |
| Nominal current IN | 12 A |
| Nominal voltage UN | 63 V |

|                    |      |
|--------------------|------|
| cUL Listed         |      |
|                    |      |
| mm²/AWG/kcmil      | 16   |
| Nominal current IN | 12 A |
| Nominal voltage UN | 63 V |

|  |
|--|
| cULus Listed  |
|--|