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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Power cable - SAC-4P- 5,0-PUR/FSS PE SCO - 1408845

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight, S-coded, 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
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Our standard: robust halogen-free PUR cable



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 839907 |
| GTIN         | 4046356839907   |

### 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   |
| Number of positions   | 4       |
| Insulation resistance | ≥ 10 GΩ |
| Coding                | S power |

# Power cable - SAC-4P- 5,0-PUR/FSS PE SCO - 1408845

## Technical data

### General

|                              |         |
|------------------------------|---------|
| 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                              | Li9YV1-11Y                              |
| 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              | 2.45 mm ±0.05 mm                        |
| Thickness, insulation                           | ≥ 0.36 mm                               |
| Wire colors                                     | Black 1, black 2, black 3, green/yellow |
| Overall twist                                   | 4 wires, twisted                        |
| Length of twist, overall twist                  | 93 mm                                   |
| External sheath, color                          | black-gray RAL 7021                     |
| Outer sheath thickness                          | approx. 1.3 mm                          |
| External cable diameter D                       | 8.8 mm ±0.25 mm                         |
| Minimum bending radius, fixed installation      | 5 x D                                   |
| Minimum bending radius, flexible installation   | 10 x D                                  |
| Number of bending cycles                        | 2000000                                 |
| 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>                     |
| Cable weight                                    | 114 kg/km                               |
| Outer sheath, material                          | PUR                                     |

## Power cable - SAC-4P- 5,0-PUR/FSS PE SCO - 1408845

### Technical data

#### Cable

|                                 |   |
|---------------------------------|---|
| Material conductor insulation   | PP  |
| Conductor material              | Bare Cu litz wires  |
| Insulation resistance           | $\geq 1 \text{ G}\Omega \cdot \text{km}$ (at 20 °C)         |
| Conductor resistance            | $\leq 13 \text{ }\Omega/\text{km}$ (at 20 °C)               |
| Nominal voltage, cable          | $\leq 1000 \text{ V AC}$                                    |
| Test voltage, cable             | $\geq 10000 \text{ V AC}$ (Spark test)                      |
| Flame resistance                | According to UL 758/1581 (Cable Flame)                      |
|                                 | According to UL 758/1581 FT1                                |
|                                 | According to DIN EN 60332-1-2                               |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                    |
|                                 | in accordance with DIN EN 50267-2-1                         |
| Resistance to oil               | According to DIN EN 60811-2-1, 168 h at 100°C               |
|                                 | According to UL 758, 168 h at 60°C                          |
| Other resistance                | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
|                                 | Low adhesion  |
|                                 | abrasion-resistant  |
|                                 | Resistant to salt water                                     |
| Ambient temperature (operation) | -50 °C ... 80 °C (cable, fixed installation)                |
|                                 | -30 °C ... 80 °C (cable, flexible installation)             |

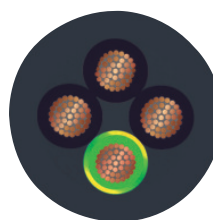
### Drawings

Schematic diagram



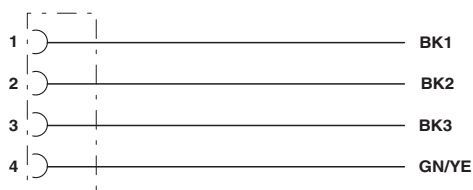
Pin assignment of M12 socket, 4-pos., S-coded, socket side view

Cable cross section



PUR halogen-free black [PUR]

Circuit diagram



Contact assignment of the M12 socket



## Power cable - SAC-4P- 5,0-PUR/FSS PE SCO - 1408845

### Approvals

#### Approvals

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#### Approvals


UL Listed / cUL Listed / cULus Listed


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#### Ex Approvals

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#### Approval details

|                                |   |   |               |
|--------------------------------|---|---|---------------|
| UL Listed                      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 468743 |
|                                |   |   |               |
| mm²/AWG/kcmil                  |   | 16  |               |
| Nominal current I <sub>N</sub> |   | 12 A  |               |
| Nominal voltage U <sub>N</sub> |   | 600 V   |               |

|                                |   |   |               |
|--------------------------------|---|---|---------------|
| cUL Listed                     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 468743 |
|                                |   |   |               |
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|              |   |
|--------------|---|
| cULus Listed |  |
|--------------|---|

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