

## Power cable - SAC-4P-FRS/ 1,5-PUR PE SH SCO - 1424100

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, Orange (RAL 2003), matt, shielded, free cable end, on Socket angled M12 SPEEDCON, S-coded, Cable length: 1.5 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 STK
GTIN	 4 046356 693059
GTIN	4046356693059
Weight per Piece (excluding packing)	256.400 g
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	1.5 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
-----------------------	------

## Power cable - SAC-4P-FRS/ 1,5-PUR PE SH SCO - 1424100

### Technical data

#### General

Rated voltage	630 V
Rated surge voltage	1.5 kV
Number of positions	4
Insulation resistance	≥ 10 GΩ
Coding	S 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 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

# Power cable - SAC-4P-FRS/ 1,5-PUR PE SH SCO - 1424100

## Technical data

### Cable

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	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)

### Environmental Product Compliance

REACH SVHC	DOTe 15571-58-1
------------	-----------------

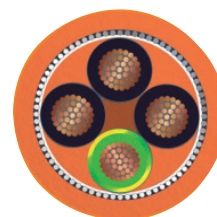
## Drawings

Schematic diagram



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

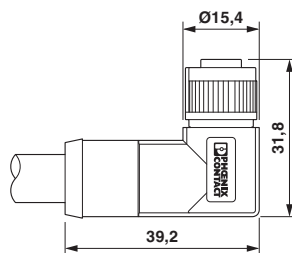
Cable cross section



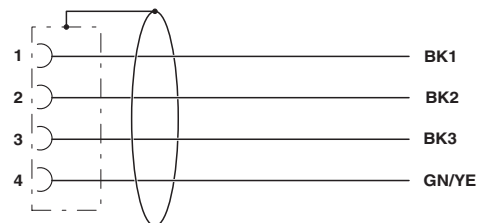
PUR halogen-free orange shielded [PUR]

## Power cable - SAC-4P-FRS/ 1,5-PUR PE SH SCO - 1424100

Dimensional drawing



Circuit diagram



M12 x 1 socket, angled

Contact assignment of the M12 socket

### 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	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

### Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

# Power cable - SAC-4P-FRS/ 1,5-PUR PE SH SCO - 1424100

## Approvals

### 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
mm <sup>2</sup> /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
mm <sup>2</sup> /AWG/kcmil	16		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	600 V		

cULus Listed	
--------------	--