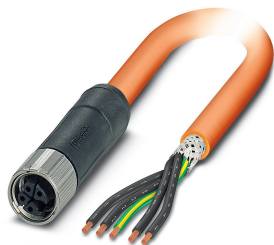


## Power cable - SAC-5P- 3,0-PVC/M12FSK PE SH - 1414797

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Power cable, 5-position, PVC, orange RAL 2003, shielded (Advanced Shielding Technology), Socket straight M12, coding: K, on free cable end, cable length: 3 m, for AC current up to 16 A/690 V

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Protection against mismatching, thanks to special K-coding
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 034317
GTIN	4055626034317

### Technical data

#### Dimensions

Length of cable	3 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65
	IP67

#### General

Rated current at 40°C	16 A
Rated voltage	690 V AC
Number of positions	5
Color handle area	black
Insulation resistance	≥ 100 MΩ

# Power cable - SAC-5P- 3,0-PVC/M12FSK PE SH - 1414797

## Technical data

### General

Coding	K - Power
Standards/regulations	M12 connector IEC 61076-2-111
Status display	No
Protective circuit/component	unwired
Overvoltage category	III
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material of grip body	PP
Material, knurls	Zinc die-cast, nickel-plated

### Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-111
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### Cable

Cable type	PVC
Cable type (abbreviation)	PVC
UL AWM style	2570 / 10914 (80°C/1000 V)
Conductor cross section	5x 2.5 mm <sup>2</sup>
AWG power supply	14
Conductor structure, voltage supply	141x 0.15 mm
Core diameter including insulation	3 mm ±0.1 mm
Thickness, insulation	≥ 0.36 mm
Wire colors	Black 1, black 2, black 3, black 4, green/yellow
Outer sheath thickness	approx. 0.76 mm
External cable diameter D	11.45 mm ±0.3 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	1000000
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	249 kg/km
External sheath, color	orange RAL 2003
Outer sheath, material	PVC

# Power cable - SAC-5P- 3,0-PVC/M12FSK PE SH - 1414797

## Technical data

### Cable

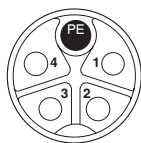
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 100 \text{ M}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	$\leq 8 \text{ }\Omega/\text{km}$ (at 20 °C)
Nominal voltage, cable	$\leq 1000 \text{ V AC}$
Test voltage, cable	$\geq 10000 \text{ V AC}$ (Spark test)
Flame resistance	According to UL 758/1581 (Cable Flame)
	according to UL 758/1581 FT1
	According to DIN EN 60332-1-2
Resistance to oil	According to DIN EN 60811-404, 168 h at 60 °C
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

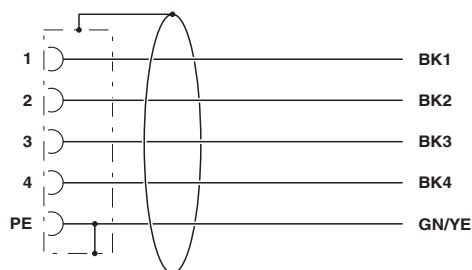
## Drawings

Schematic diagram



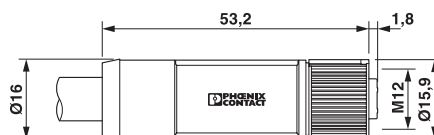
Pin assignment of M12 socket, 5-pos., K-coded, socket side view

Circuit diagram



Contact assignment of the M12 socket

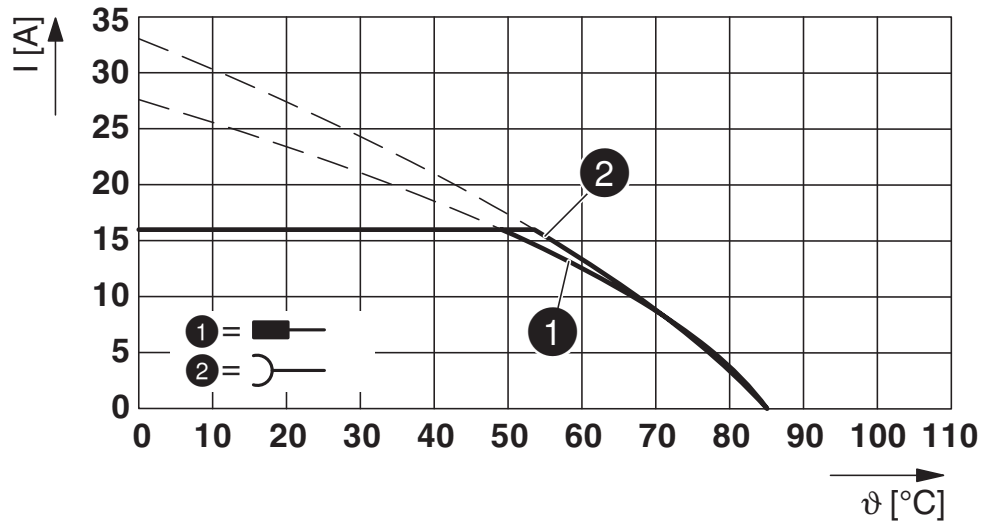
Dimensional drawing



M12 x 1 socket, straight

# Power cable - SAC-5P- 3,0-PVC/M12FSK PE SH - 1414797

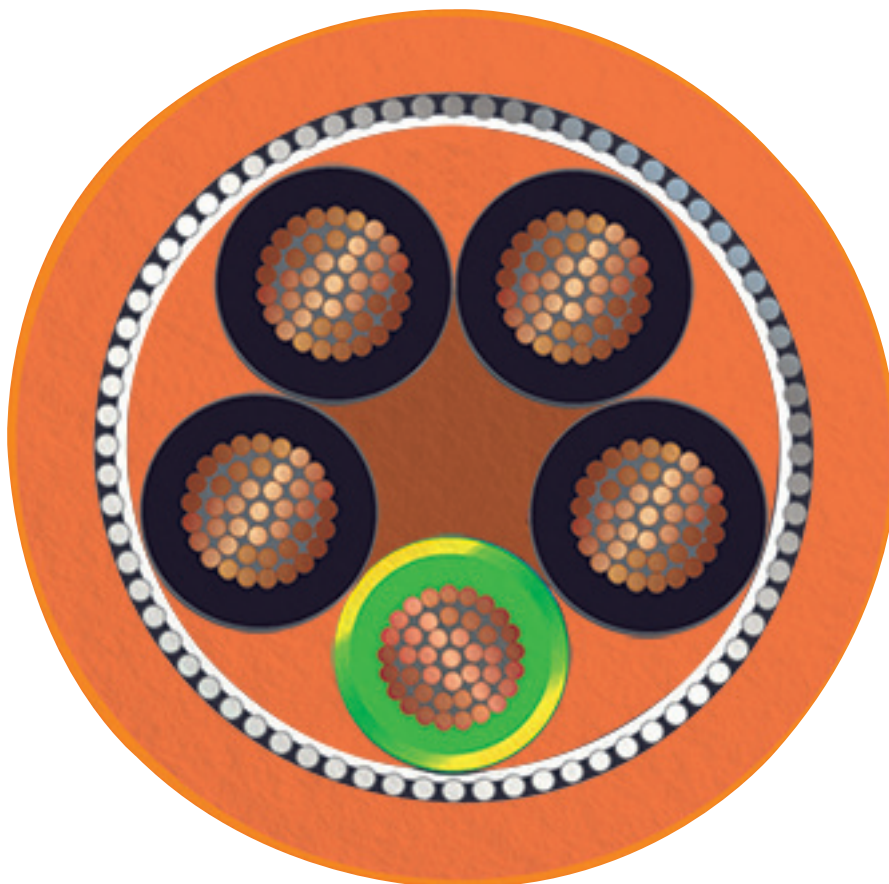
Diagram



Current carrying capacity

# Power cable - SAC-5P- 3,0-PVC/M12FSK PE SH - 1414797

Cable cross section



PVC [PVC]

## Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 11.0	27060311
eCl@ss 4.0	24010400
eCl@ss 4.1	24010400
eCl@ss 5.0	19030300
eCl@ss 5.1	19030300
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC002061
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# Power cable - SAC-5P- 3,0-PVC/M12FSK PE SH - 1414797

## Classifications

### ETIM

ETIM 4.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 18.0	27112301
UNSPSC 19.0	27112301
UNSPSC 20.0	27112301
UNSPSC 21.0	27112301

## Accessories

### Accessories

#### Screwdriver tools

Tool - SAC BIT M12-D16 - 1200305



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive

Screw plug - PROT M12 MS PWR - 1092802



An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors

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