

## Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

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, 6-position, PVC, orange RAL 2003, shielded (Advanced Shielding Technology), Socket angled M12, coding: M, on free cable end, cable length: 1.5 m, For AC current up to 8 A/690 V

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: AC connectors for up to 8 A and 630 V AC
- ✓ Protection against mismatching, thanks to special M-coding
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads

### Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626035352

### 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 (without preloading, as additional test in accordance with IEC 60529)

#### General

Rated current at 40°C	8 A
Rated voltage	690 V AC
Number of positions	6
Insulation resistance	≥ 100 MΩ
Coding	M - Power

# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

## Technical data

### General

Standards/regulations	M12 connector IEC 61076-2-111
Status display	No
Protective circuit/component	unwired
Overvoltage category	III
Degree of pollution	3
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
Flammability rating according to UL 94	V0

### Cable

UL AWM style	2570 / 10914 (80°C/1000 V)
Conductor cross section	6x 1.5 mm <sup>2</sup>
AWG power supply	16
Conductor structure, voltage supply	78x 0.15 mm
Core diameter including insulation	2.4 mm ±0.05 mm
Thickness, insulation	≥ 0.36 mm
Wire colors	black 1, black 2, black 3, black 4, black 5, green/yellow
External sheath, color	orange RAL 2003
Outer sheath thickness	approx. 0.76 mm
External cable diameter D	10.4 mm ±0.25 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	192 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 100 MΩ*km (at 20 °C)

## Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

### Technical data

#### Cable

Conductor resistance	≤ 15 Ω/m (at 20 °C)
Nominal voltage, cable	≤ 1000 V AC
Test voltage, cable	≥ 10000 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)	-20 °C ... 80 °C (cable, flexible installation)

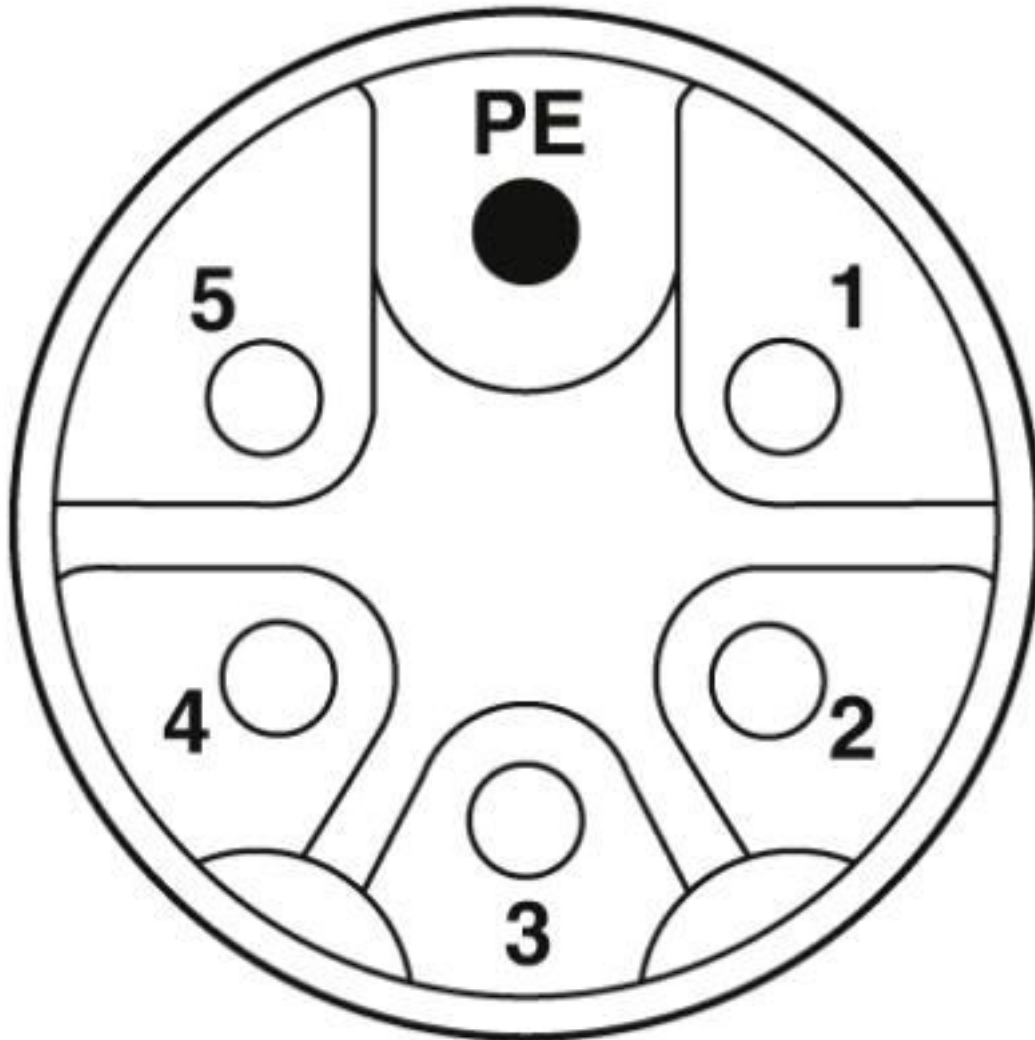
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

### Drawings

# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

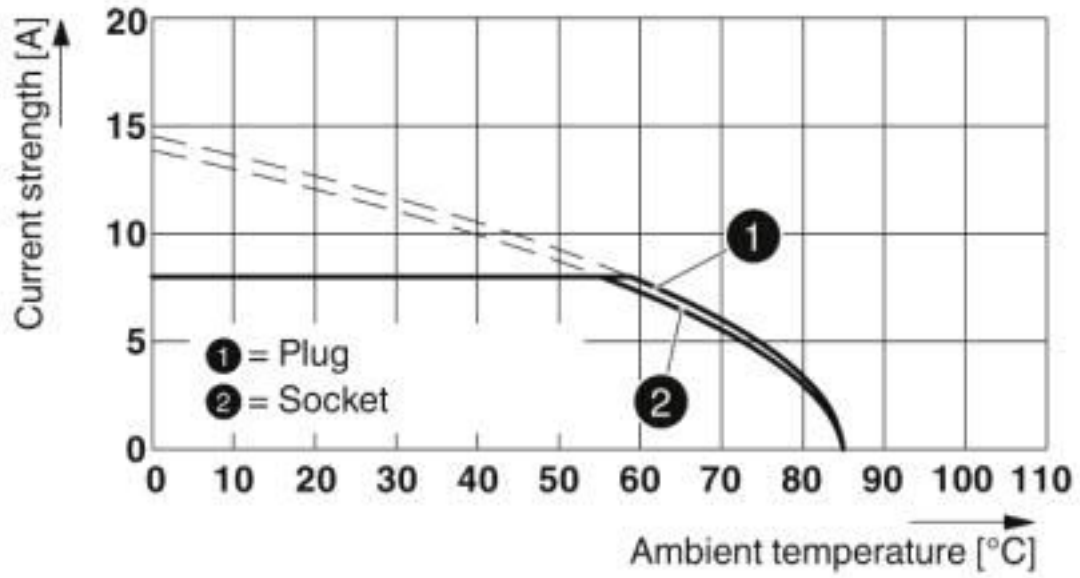
Schematic diagram



Pin assignment of M12 socket, 6-pos., M-coded, socket side view

# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

Diagram



Current carrying capacity

# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

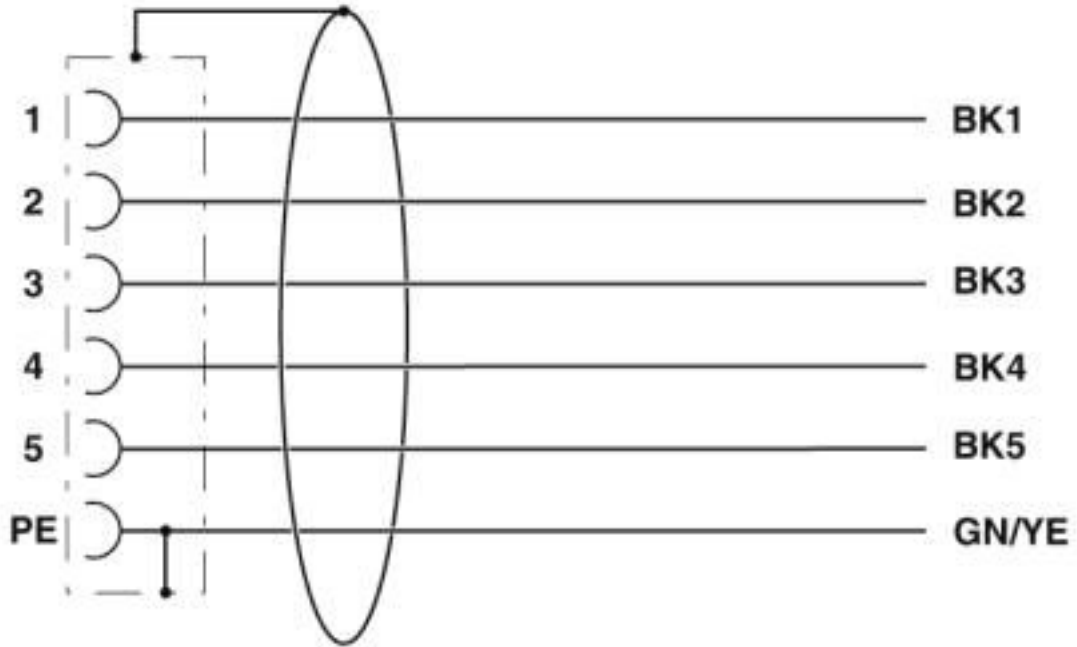
Dimensional drawing



M12 x 1 socket, angled

# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

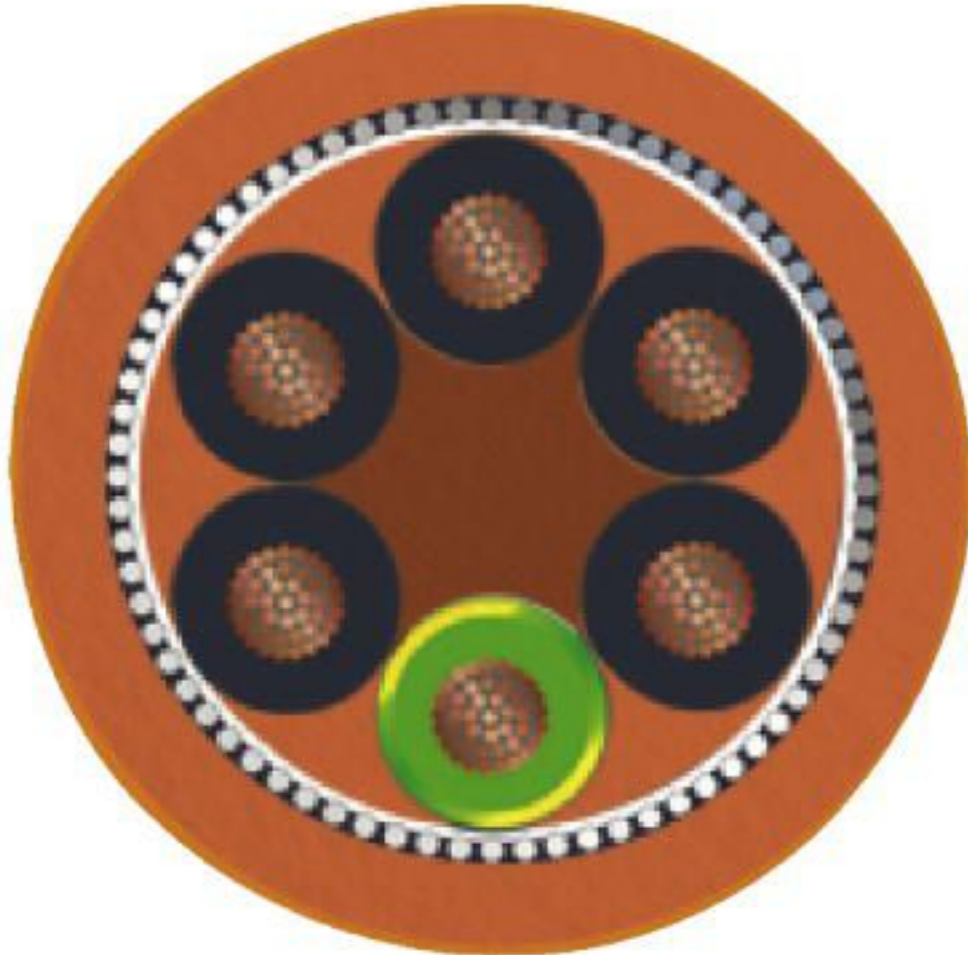
Circuit diagram



Contact assignment of the M12 socket

# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

Cable cross section



PVC orange [PVC]

## Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 5.1	27061801
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 5.0	EC001855
ETIM 6.0	EC001855



# Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

## Classifications

### ETIM

ETIM 7.0	EC001855
----------	----------

## Approvals

### Approvals

### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

### Ex 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>	E468743
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm <sup>2</sup> /AWG/kcmil		16	

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>	E468743
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm <sup>2</sup> /AWG/kcmil		16	

EAC		RU C- DE.BL08.B.00286
-----	--	--------------------------

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

## Accessories

### Accessories

### Screwdriver tools

## Power cable - SAC-6P- 1,5-PVC/M12FRM PE SH - 1414904

### Accessories

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

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1414904](#)