

Power cable - SAC-4P-M12MSS/10,5-PUR/FSSPESH - 1423665

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Power cable, 4-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), Plug straight M12, S-coded, on Socket straight M12, S-coded, cable length: 10.5 m, for AC current up to 12 A/690 V

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- High-performance: AC connectors for up to 12 A and 690 V AC
- Protection against incorrect connection using special S-coding
- Shield power reliably – 360° shielding to reduce electromagnetic loads
- Our standard: robust halogen-free PUR cable



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 055626 353173
GTIN	4055626353173

Technical data

Dimensions

Length of cable	10.5 m
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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	690 V AC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	S power
Standards/regulations	M12 connector IEC 61076-2-111
Status display	No

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Technical data

General

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

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-111
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 ²
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
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²

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Technical data

Cable

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)

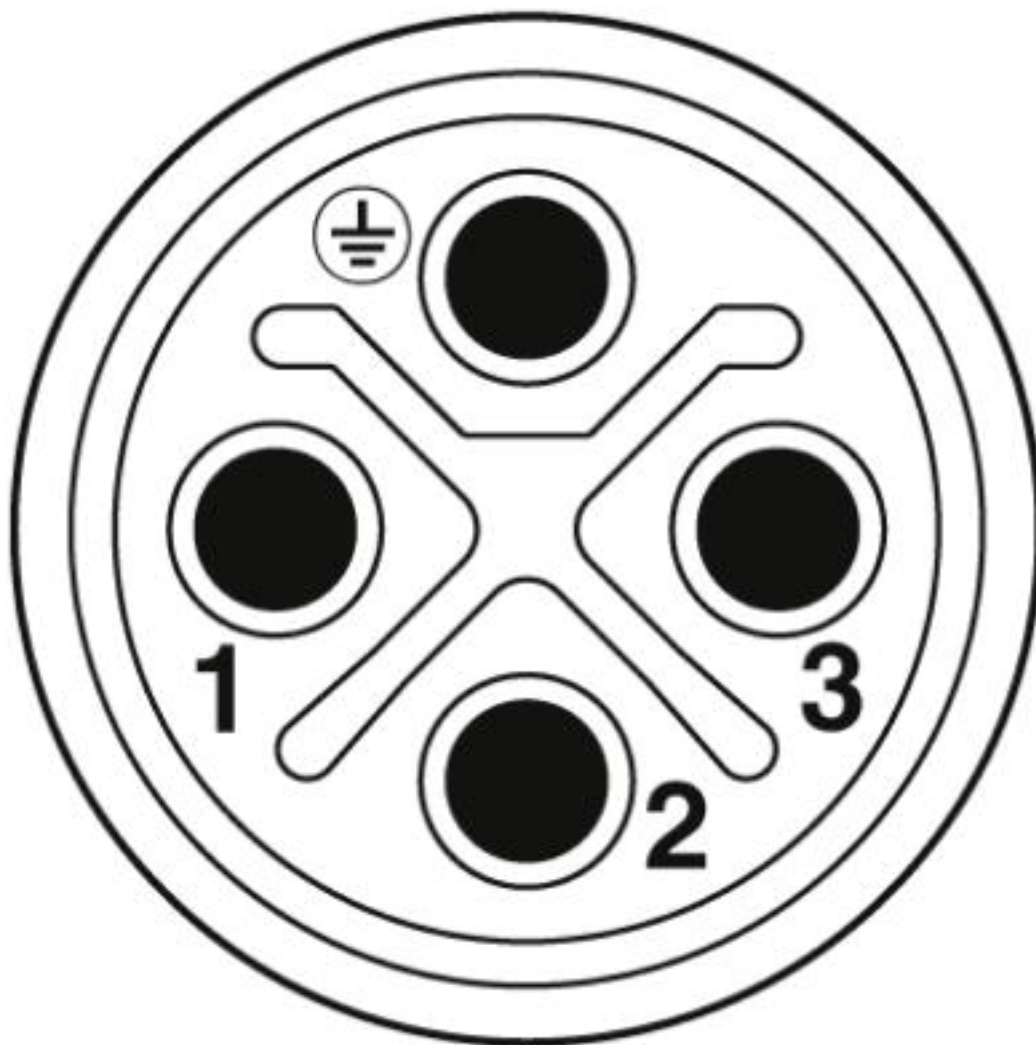
Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Power cable - SAC-4P-M12MSS/10,5-PUR/FSSPESH - 1423665

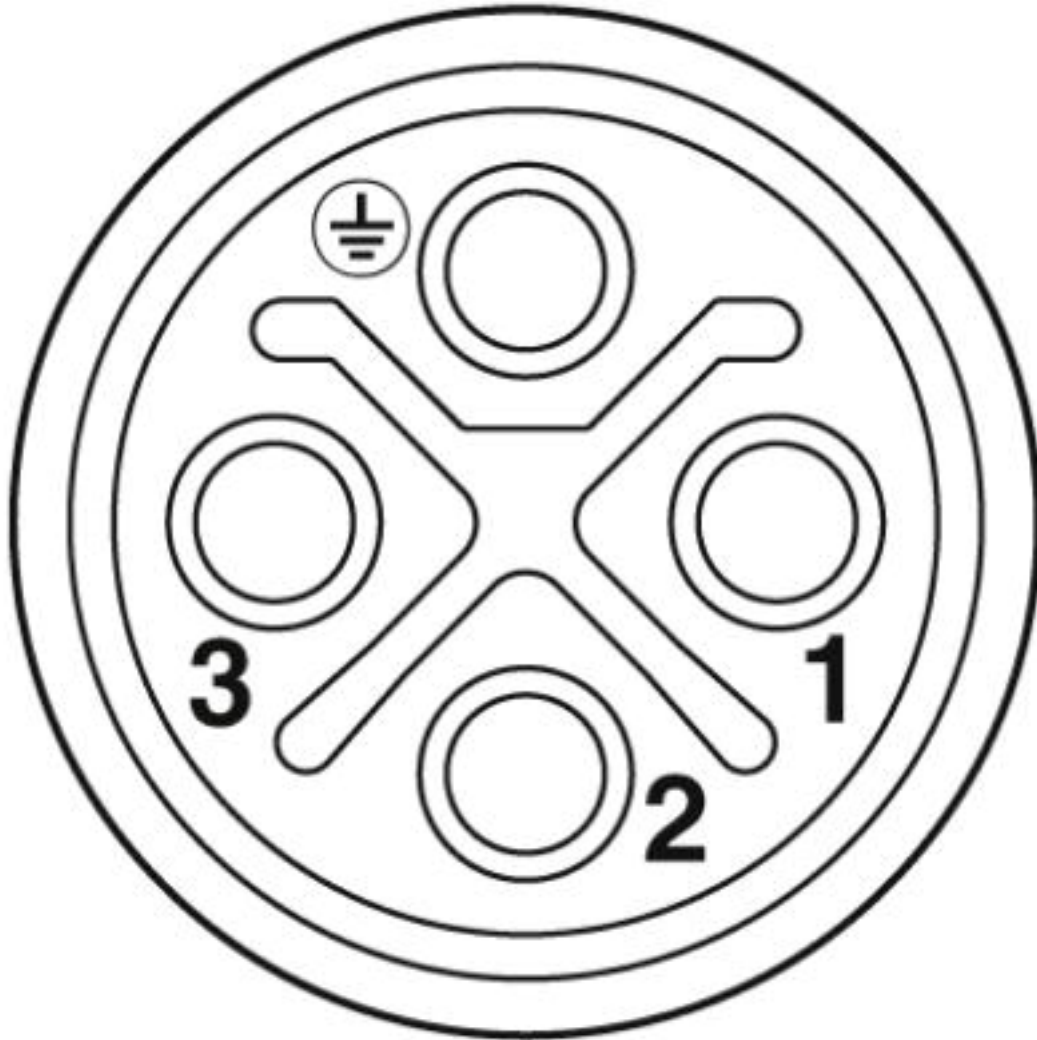
Schematic diagram



M12 plug pin assignment, 4-pos., S-coded, plug side view

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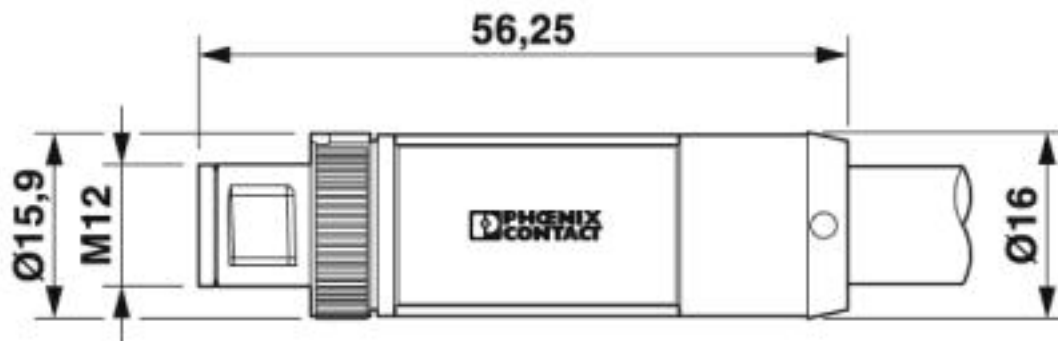
Schematic diagram



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

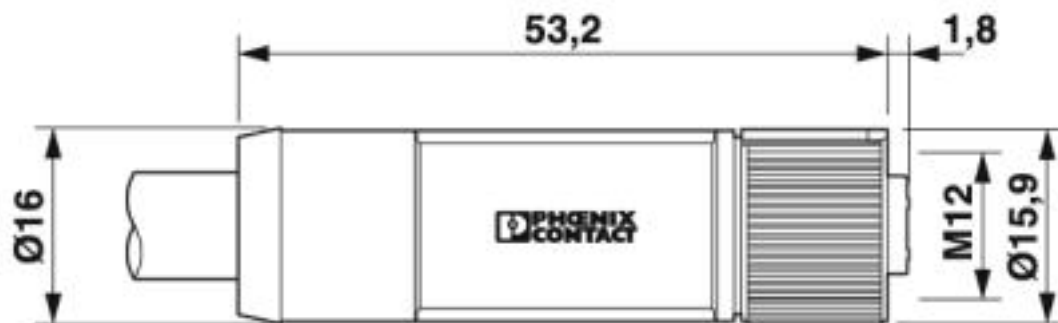
Power cable - SAC-4P-M12MSS/10,5-PUR/FSSPESH - 1423665

Dimensional drawing



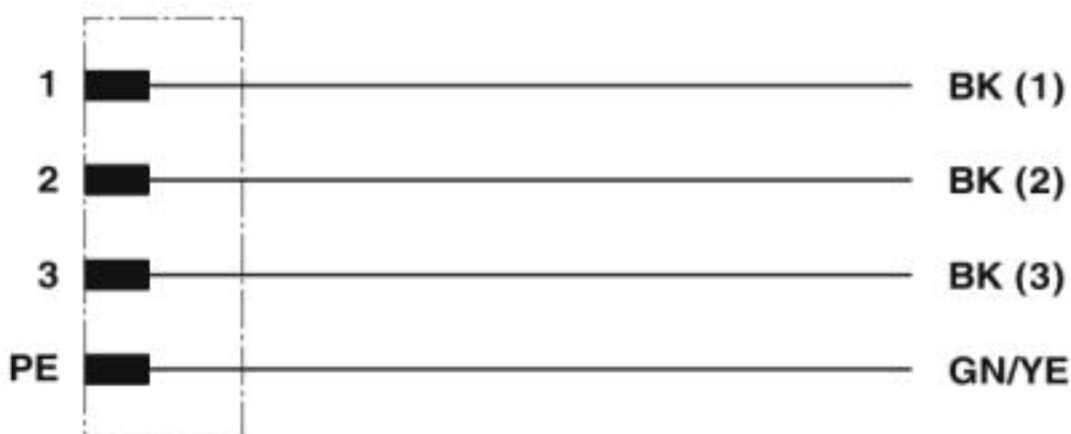
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

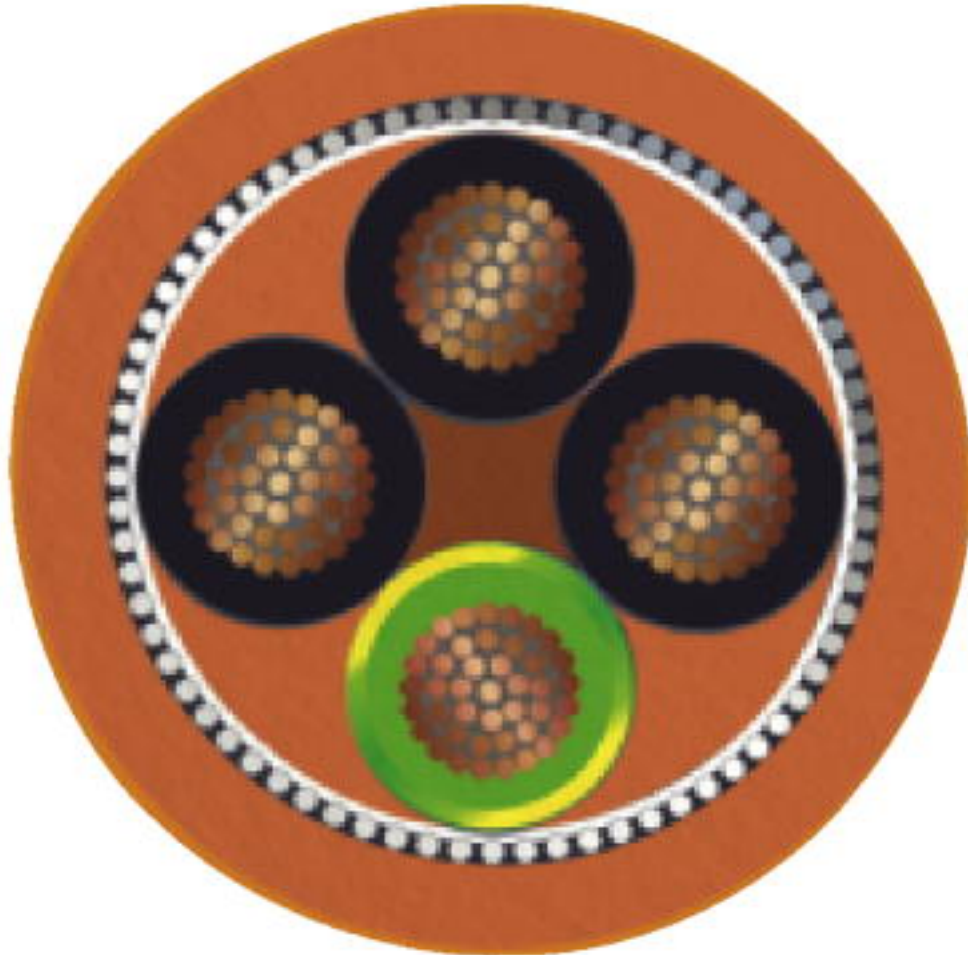
Circuit diagram



Contact assignment of the M12 plug

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Cable cross section



PUR halogen-free orange shielded [PUR]

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 468743
Nominal voltage UN	600 V		
Nominal current IN	12 A		
mm ² /AWG/kcmil	16		

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 468743
Nominal voltage UN	600 V		
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mm ² /AWG/kcmil	16		

cULus Listed			
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