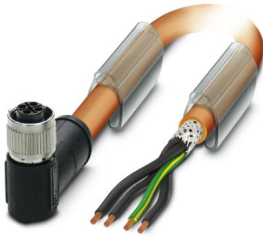


Power cable - SAC-4P-20,0- PUR/M12FRS PE SH - 1421533

<https://www.phoenixcontact.com/in/products/1421533>

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Power cable, 4-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), free cable end, on Socket angled M12, coding: S, cable length: 20 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
- Our standard: robust halogen-free PUR cable
- Shield power reliably – 360° shielding to reduce electromagnetic loads

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Commercial Data

Order Key	1421533
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to Order (non-returnable)
GTIN	4055626269535
Weight per Piece (including packing)	2,900.0 GRM
Weight per Piece (excluding packing)	2,900.0 GRM
Customs tariff number	85444290

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Technical Data

Cable / line

Cable length	20 m
Shielded	yes
UL AWM Style	20234 / 10492 (80°C/1000 V)
Shielded	yes

Electrical properties

Nominal voltage, cable	1000 V AC
Test voltage, cable	4260 V AC (5 min.)
Conductor resistance	≤ 13.3 Ω/km (at 20 °C)
Cable insulation resistance	≥ 10 MΩ*km (at 20 °C)

Cable structure

Cable abbreviation	9YSLC11Y-JZ
Cable type	PUR halogen-free orange shielded
Cable type (abbreviation)	PUR
External cable diameter	9.7 mm ±0.3 mm
Outer sheath, material	PUR
External sheath, color	orange RAL 2003
Thickness, outer sheath	1.2 mm
Conductor material	Bare Cu litz wires
Conductor structure, voltage supply	78x 0.15 mm
AWG power supply	16
Material wire insulation	PP
Thickness, insulation	0.4 mm
Wire diameter incl. insulation	≤ 2.5 mm
Single wire, color	Black 1, black 2, black 3, green/yellow
Overall twist	4 wires optimally twisted
Shielding	Tinned copper-braided shield, approx. 85% covering
Outer sheath, material	PUR
External sheath, color	Orange (RAL 2003), matt

Mechanical properties

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
Torsion force	± 25 °/m

Ambient conditions

Power cable - SAC-4P-20,0-PUR/M12FRS PE SH - 1421533



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Halogen-free	according to VDE 0282-13 Appendix C
Resistance to oil	in accordance with DIN EN 60811-2-1
Resistance to oil	According to DIN EN 50363-10-2
Flame resistance	according to EN 60332-1-2
Flame resistance	in acc. to UL 1581 VW1
Flame resistance	According to CSA C 22.2 No. 210-05 FT1
Other resistance	UV resistant
Other resistance	Low adhesion
Ambient temperature (operation)	-30 °C ... 90 °C (cable, flexible installation)
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)

Connector

Insertion/withdrawal cycles	> 100
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Head 2

Type	Socket, angled
------	----------------

Header 1

Type	free cable end
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Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	690 V AC
Nominal current I_N	12 A
Protective circuit	unwired

Ambient conditions

Degree of protection	IP65
Degree of protection	IP67 (without preloading, as additional test in accordance with IEC 60529)
Degree of protection	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Notes

Environmental Product Compliance

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

Standards and regulations

Standards/specifications	IEC 61076-2-111
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Material specifications

Power cable - SAC-4P-20,0- PUR/M12FRS PE SH - 1421533



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

Product properties

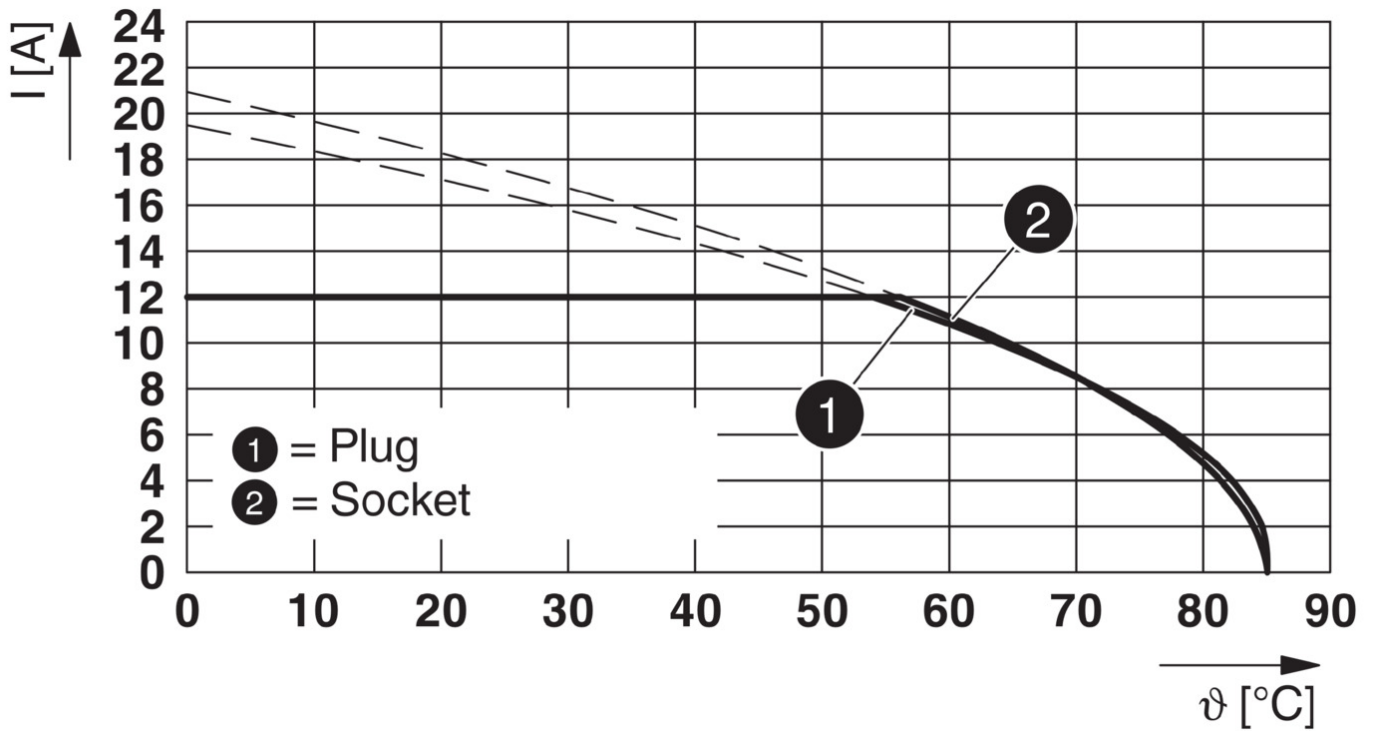
Number of positions	4
Application	Power supply
Coding	S power

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Drawings

Diagram

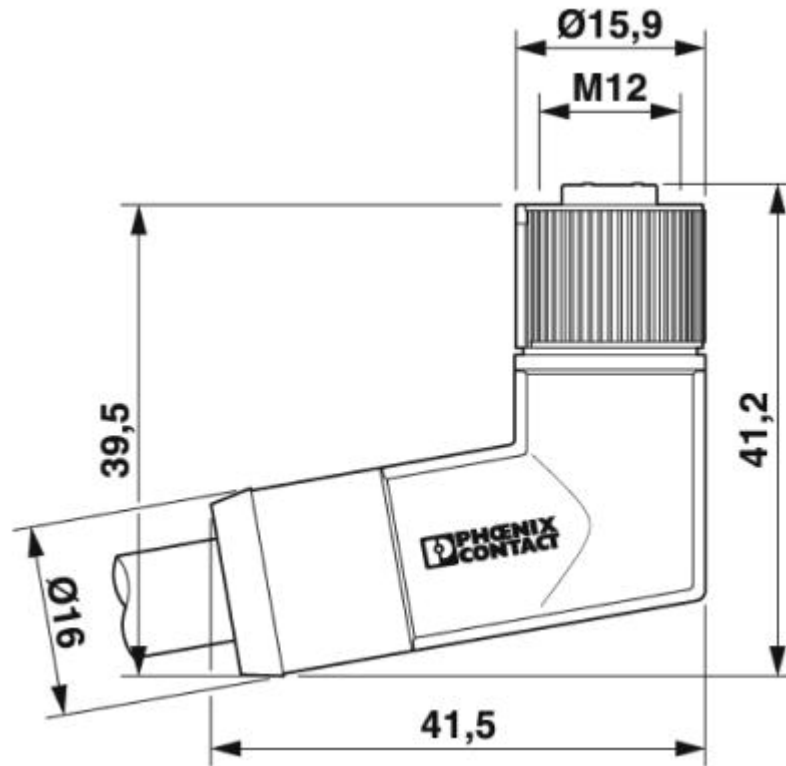


Current carrying capacity

Power cable - SAC-4P-20,0-
PUR/M12FRS PE SH - 1421533

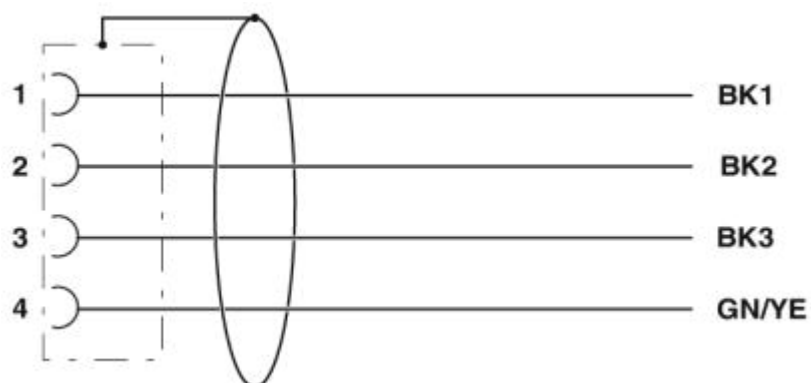
<https://www.phoenixcontact.com/in/products/1421533>

Dimensional drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 socket

Power cable - SAC-4P-20,0-
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Schematic diagram



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

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Approvals

UL Listed 

Nominal voltage U_N	600 V
Nominal current I_N	12 A
AWG/kcmil	16
Max. cross section	16 mm ²

cUL Listed 

Nominal voltage U_N	600 V
Nominal current I_N	12 A
AWG/kcmil	16
Max. cross section	16 mm ²

cULus Listed

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Accessories

Screwdriver tools

Screwdriver tools - 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



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