

Power cable - SAC-4P-1,5-PUR/M12FST SH - 1424112

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: T, cable length: 1.5 m, For direct current up to 12 A/63 V

Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 12 A and 63 V DC
- ✓ Protection against incorrect connection using special T-coding
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads
- ✓ Our standard: robust halogen-free PUR cable

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 693165
GTIN	4046356693165

Technical data

Dimensions

Length of cable	1.5 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	63 V DC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ

Power cable - SAC-4P-1,5-PUR/M12FST SH - 1424112

Technical data

General

Coding	T 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
Flammability rating according to UL 94	V0

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	LS9YC11Y-OB
Conductor cross section	4x 1.5 mm ²
AWG power supply	16
Core diameter including insulation	2.4 mm
Thickness, insulation	1.2 mm (Outer cable sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires optimally twisted
Shielding	Tinned copper-braided shield, approx. 85% covering
External sheath, color	black RAL 9005
External cable diameter D	9.7 mm ±0,3 mm
Smallest bending radius, fixed installation	49 mm
Smallest bending radius, movable installation	73 mm
Number of bending cycles	4000000
Bending radius	97 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Torsion force	± 25 °/m

Power cable - SAC-4P-1,5-PUR/M12FST SH - 1424112

Technical data

Cable

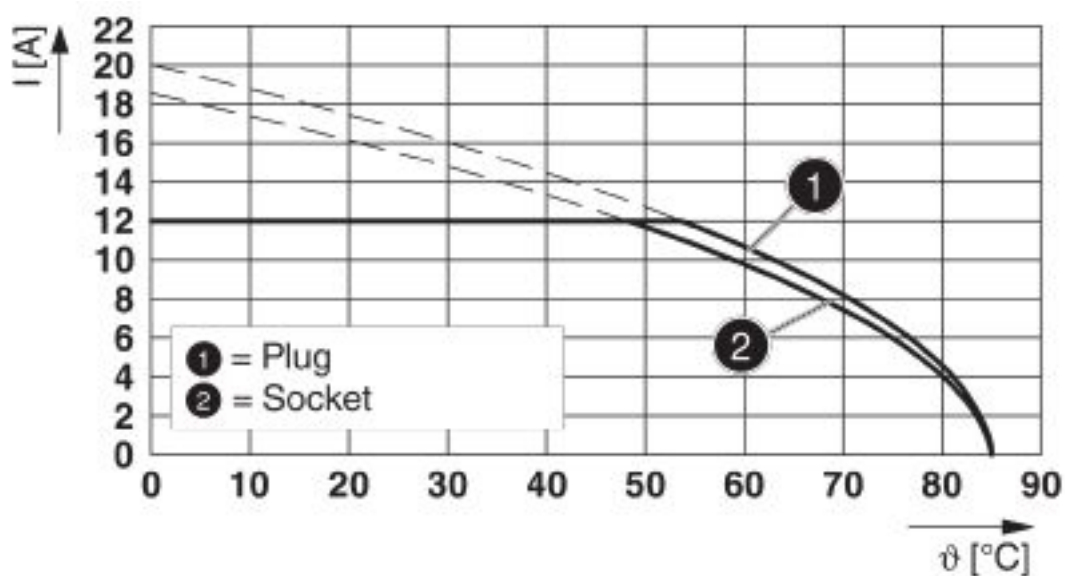
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 10 \text{ M}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	$\leq 13.3 \text{ }\Omega/\text{km}$ (at 20 °C)
Nominal voltage, cable	300 V AC
Test voltage, cable	1500 V AC (5 min.)
Flame resistance	according to EN 60332-1-2
	in acc. to UL 1581 VW1
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
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 90 °C (cable, flexible installation)

Environmental Product Compliance

REACH SVHC	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

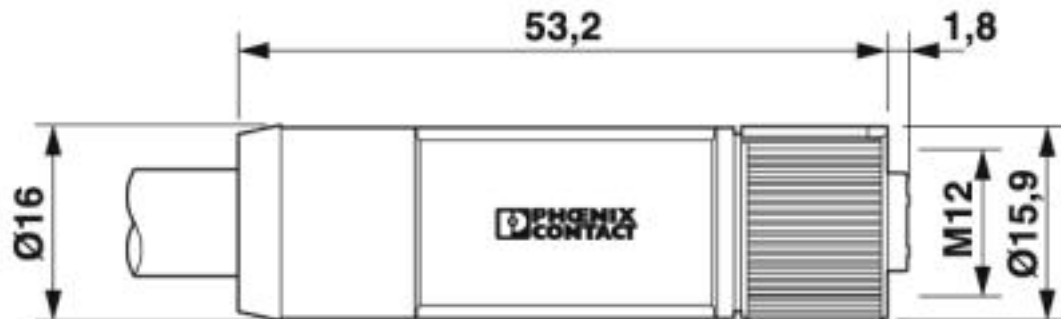
Diagram



Current carrying capacity

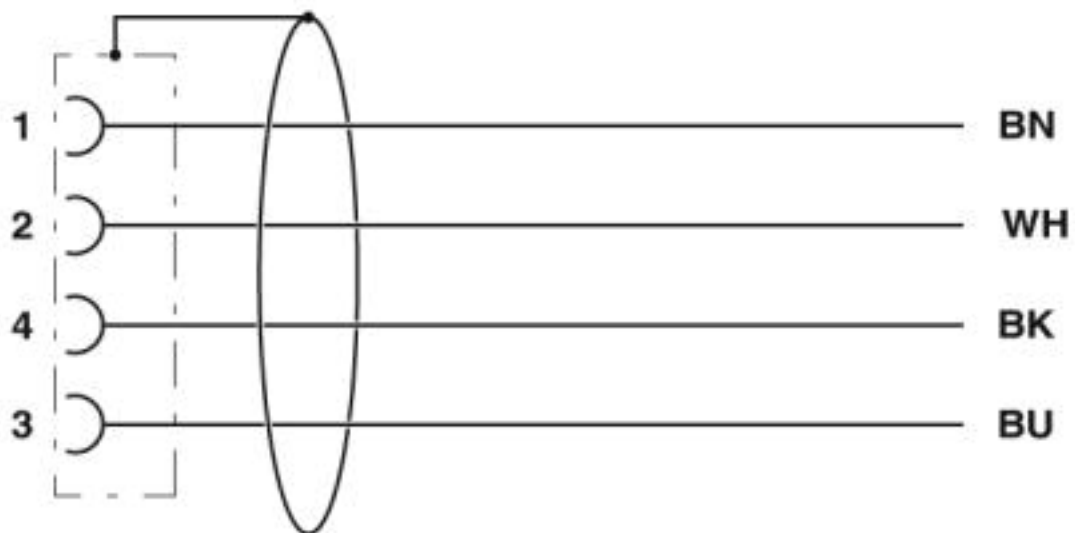
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Dimensional drawing



M12 x 1 socket, straight

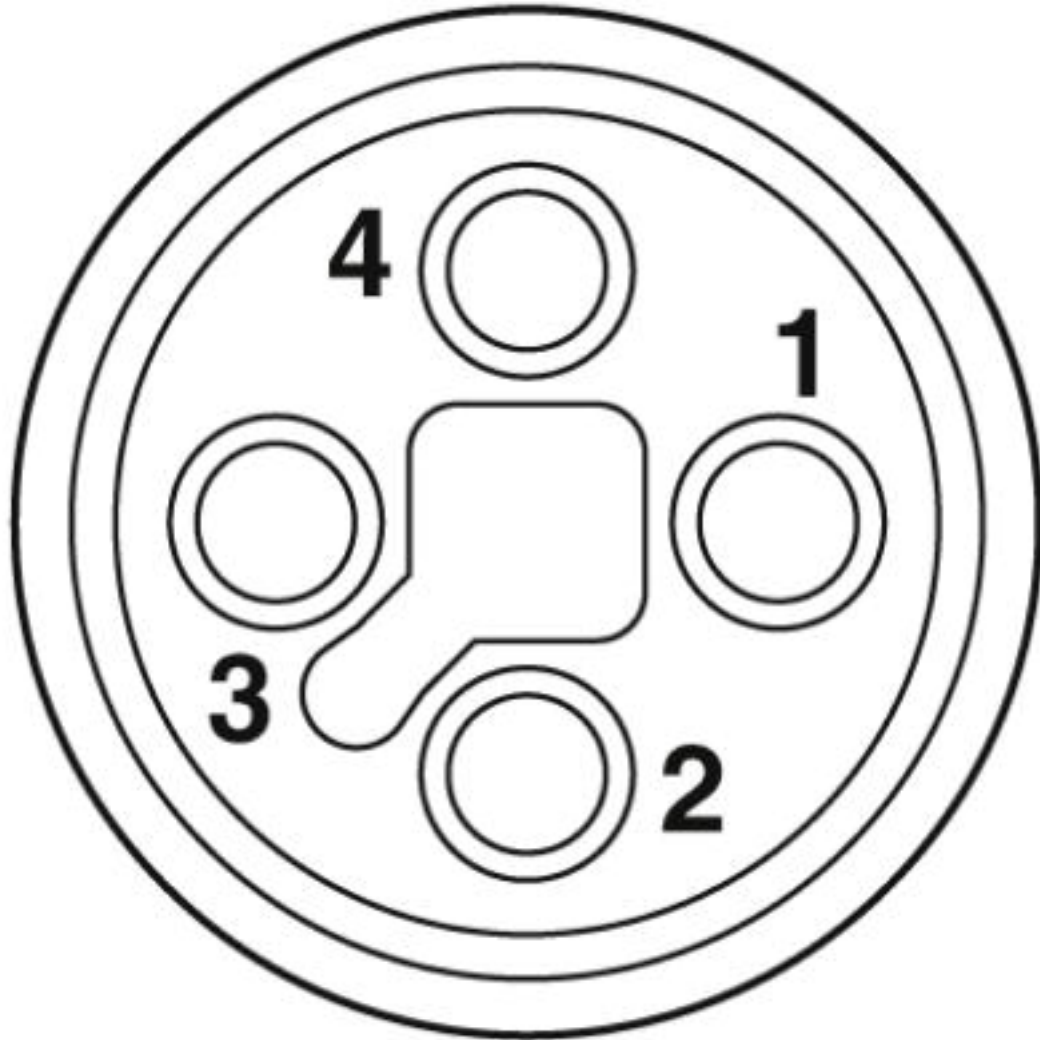
Circuit diagram



Contact assignment of the M12 socket

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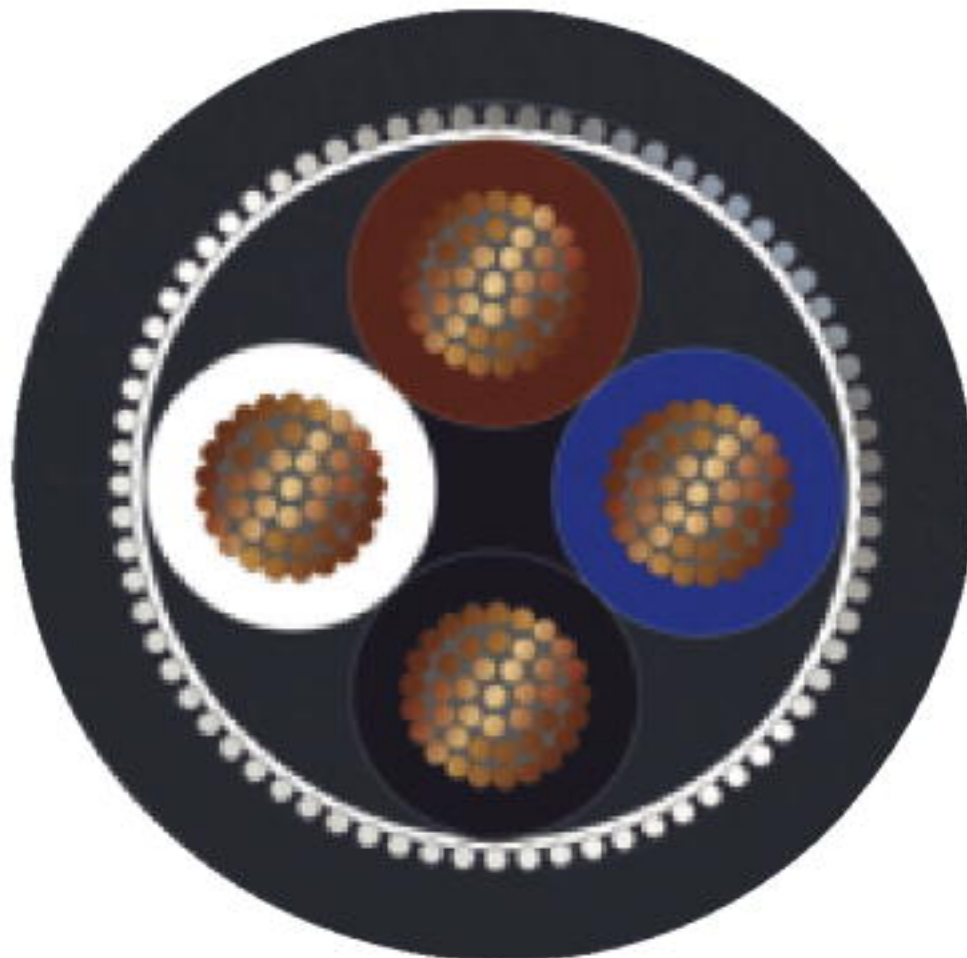
Schematic diagram



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

Power cable - SAC-4P-1,5-PUR/M12FST SH - 1424112

Cable cross section



PUR halogen-free black [PUR]

Classifications

eCl@ss

eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

Power cable - SAC-4P-1,5-PUR/M12FST SH - 1424112

Classifications

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC001855
ETIM 5.0	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 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN	63 V		
Nominal current IN	12 A		
mm²/AWG/kcmil	16		

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN	63 V		

Power cable - SAC-4P-1,5-PUR/M12FST SH - 1424112

Approvals

Nominal current I _N	12 A
mm ² /AWG/kcmil	16

cULus Listed	
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Accessories

Accessories

Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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

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