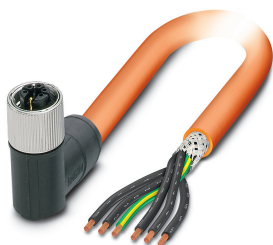


Power cable - SAC-6P- 3,0-PUR/M12FRM PE SH - 1414908

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Power cable, 6-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), Socket angled M12, coding: M, on free cable end, cable length: 3 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
- ✓ Our standard: robust halogen-free PUR cable



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626035390
Weight per Piece (excluding packing)	556.770 g
Custom tariff number	85444290
Country of origin	Poland
Note	Made to Order (non-returnable)

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

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Technical data

General

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

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
UL AWM style	20234 / 10492 (80°C/1000 V)
Conductor cross section	6x 1.5 mm ²
AWG power supply	16
Conductor structure, voltage supply	78x 0.15 mm
Core diameter including insulation	2.35 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. 1.15 mm
External cable diameter D	10.4 mm ±0.3 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m

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Technical data

Cable

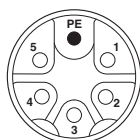
Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	144 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Conductor resistance	≤ 15 Ω/m (at 20 °C)
Nominal voltage, cable	≤ 1000 V AC
Test voltage, cable	≥ 10000 V AC (Spark test)
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	Low adhesion
	abrasion-resistant
	Resistant to salt water
Ambient temperature (operation)	-30 °C ... 80 °C (cable, flexible installation)

Environmental Product Compliance

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

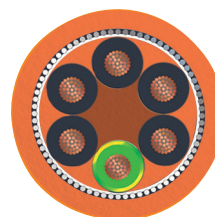
Drawings

Schematic diagram



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

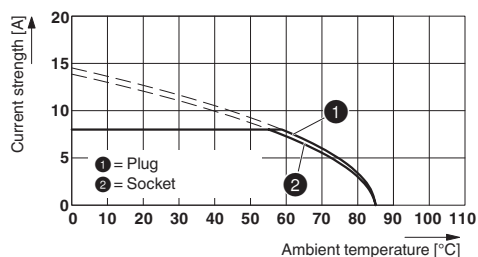
Cable cross section



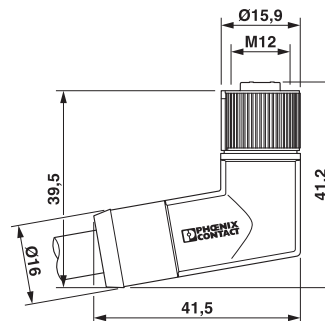
PUR halogen-free black [PUR]

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Diagram



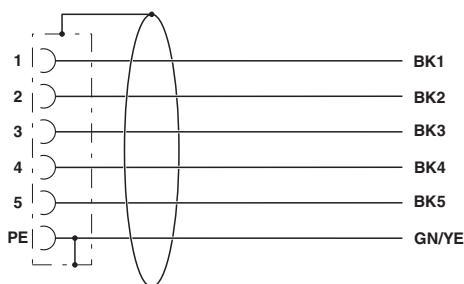
Dimensional drawing



Current carrying capacity

M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 socket

Classifications

eCl@ss

eCl@ss 10.0.1	27440203
eCl@ss 11.0	27440203
eCl@ss 5.1	27061801
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27440203
eCl@ss 9.0	27440203

ETIM

ETIM 5.0	EC002311
ETIM 6.0	EC002311
ETIM 7.0	EC002311

Approvals

Approvals

Power cable - SAC-6P- 3,0-PUR/M12FRM PE SH - 1414908


Approvals


Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed


Ex Approvals


Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm ² /AWG/kcmil		16	

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm ² /AWG/kcmil		16	

EAC-RoHS		RU D- DE.HB35.B.00387
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EAC		RU C- DE.BL08.B.00286
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cULus Listed	
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Accessories

Accessories

Screwdriver tools

Power cable - SAC-6P- 3,0-PUR/M12FRM PE SH - 1414908

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
