

## Sensor/Actuator cable - SAC-4P-FRT/ 5,0-PUR SH SCO - 1424118

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Sensor/Actuator cable, 4-position, PUR halogen-free, Black RAL 9005, shielded, Free cable end, on Socket angled M12 SPEEDCON, T-coded, Cable length: 5 m

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ High-performance: DC connectors for up to 12 A and 60 V DC
- ✓ Protection against incorrect connection using special T-coding
- ✓ Shield power reliably – 360° shielding to reduce electromagnetic loads
- ✓ Save time, thanks to installation with SPEEDCON rapid interlock system
- ✓ Our standard: robust halogen-free PUR cable



### Key commercial data

Packing unit	1 1
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	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	60 V

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### Technical data

#### General

Number of positions	4
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\leq 10 \text{ G}\Omega$
Coding	T power
Standards/regulations	M12 connector
Status display	No
Surge voltage category	III
Pollution degree	3
Insertion/withdrawal cycles	$> 100$
Torque	0.4 Nm (M12 connector)

#### Material

Inflammability class according to UL 94	VO
Contact material	CuZn
Contact surface material	Au
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

#### Cable

Cable type	PUR halogen-free black shielded
Cable type (abbreviation)	PUR
Cable abbreviation	LS9YC11Y-OB
Conductor cross section	4x 1.5 mm <sup>2</sup>
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 $\pm 0.3$ 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 <sup>2</sup>

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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	300 V AC
Test voltage, cable	1500 V AC (5 min.)
Flame resistance	According to EN 60332-1-2
	According 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)

### Classifications

#### eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001

#### ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC001855
ETIM 5.0	EC001855

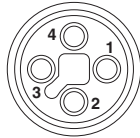
#### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

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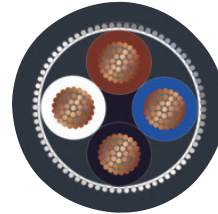
## Drawings

Schematic diagram



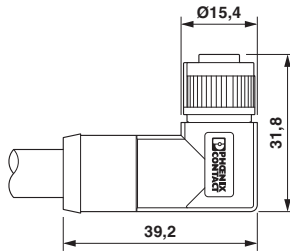
Connector pin assignment of M12 socket, 4-pos., T-coded, view of socket side

Cable cross section



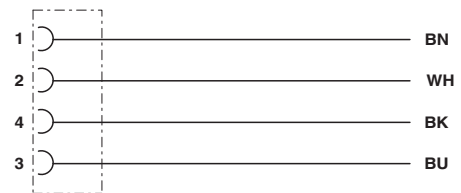
PUR halogen-free black shielded [PUR]

Dimensioned drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 socket