SAC-4P- 3,0-511/M12FS FB - Sensor/actuator cable

1552434

https://www.phoenixcontact.com/us/products/1552434

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Sensor/actuator cable, 4-position, Special mixture on PVC base, black RAL 9005, free cable end, on Socket straight M12, coding: A, cable length: 3 m, for the food industry, with high-grade steel knurl

Commercial data

Item number	1552434
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CCA
GTIN	4046356155854
Weight per piece (including packing)	126.6 g
Weight per piece (excluding packing)	126.6 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Food processing industry
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Stainless steel

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)

Connector

Connection 1

Type	free cable end

Connection 2

Type	Socket straight M12
Number of positions	4
Coding type	A

Cable/line

Cable length	3 m

PVC black FDA [511]

Dimensional drawing	
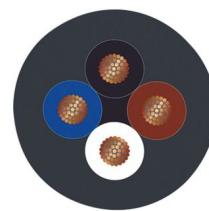
Number of positions	4
Shielded	no
Cable type	PVC black FDA [511]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	0.34 mm²
Wire diameter incl. insulation	1.52 mm ±0.05 mm
External cable diameter	5.20 mm ±0.2 mm
Outer sheath, material	Special mixture on PVC base
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, blue, black
Overall twist	4 wires, twisted
Nominal voltage, cable	300 V
Test voltage	1500 V
Resistance to oil	good oil-resistance
Other resistance	UV resistant
	Silicone-free
Special properties	FDA compliant
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 90 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
	IP69K
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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Drawings

### Dimensional drawing
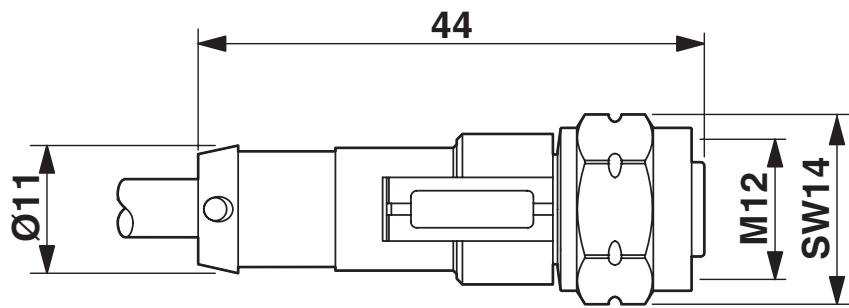
M12 x 1 socket, straight

Schematic diagram
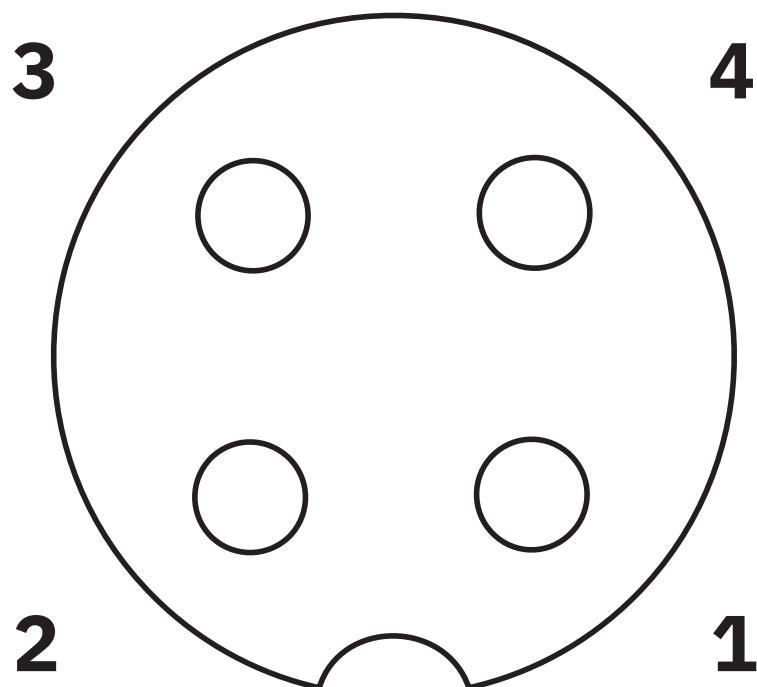
Pin assignment M12 socket, 4-pos., A-coded, view female side

Circuit diagram

1	BN
2	WH
4	BK
3	BU
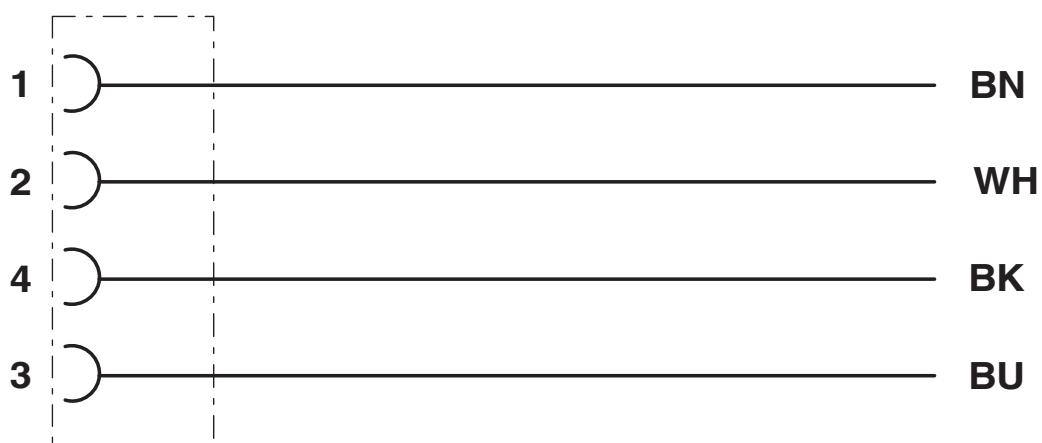
Contact assignment of the M12 plug and the M12 socket

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

UNSPSC

UNSPSC 21.0	31251501

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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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