

SAC-4P-MS/ 3,0-511/M12FR-3L FB - Sensor/actuator cable



1552735

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

Commercial data

Item number	1552735
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	BF1CCA
Catalog page	Page 212 (PC-2011)
GTIN	4046356156073
Weight per piece (including packing)	136.5 g
Weight per piece (excluding packing)	132.5 g
Customs tariff number	85444290
Country of origin	PL

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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	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	24 V
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	3 LEDs
Status display present	Yes

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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Connector

Connection 1

Type	Plug straight M12
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Number of positions	4
Coding type	A

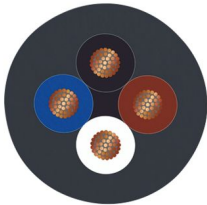
Connection 2

Type	Socket angled M12
Number of positions	4
Coding type	A

Cable/line

Cable length	3 m
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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

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Ambient conditions

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

Standards and regulations

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

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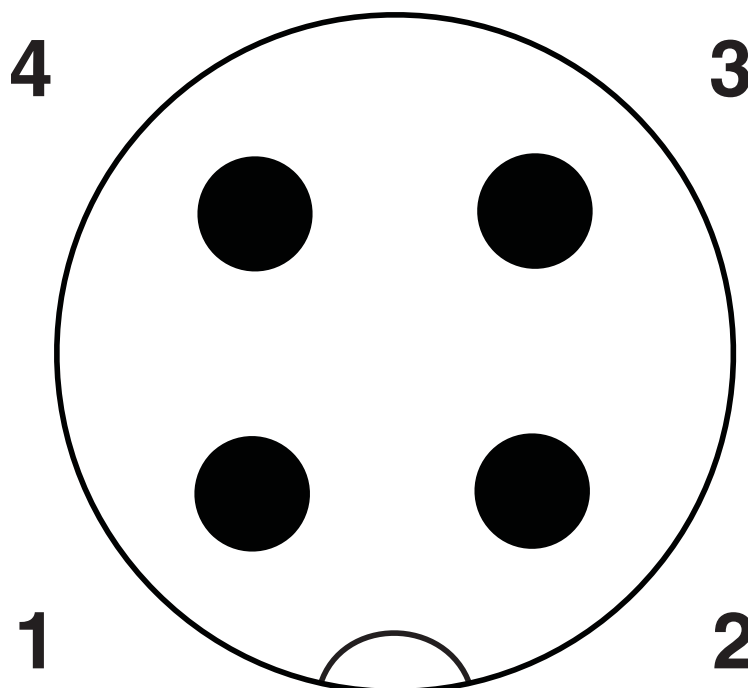


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Drawings

Schematic diagram



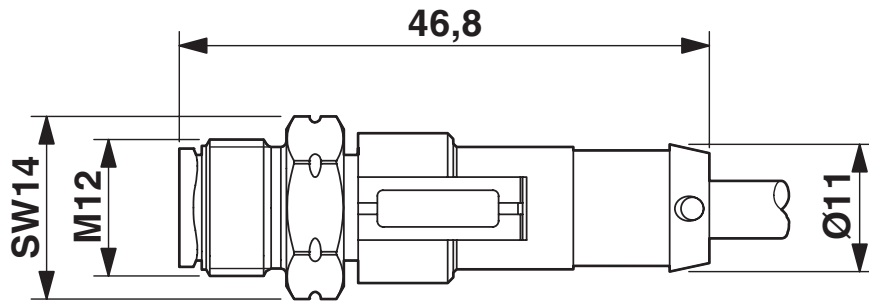
Pin assignment M12 plug, 4-pos., A-coded, view plug side

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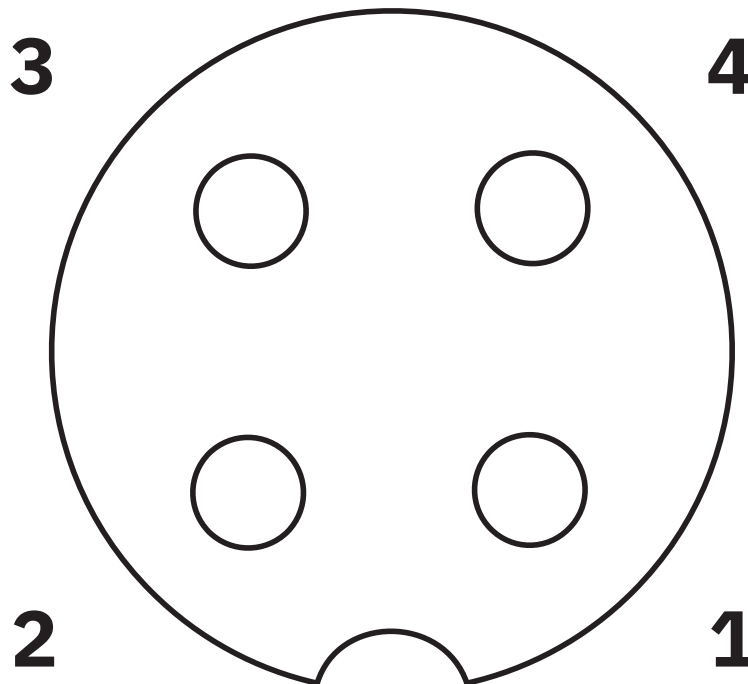
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Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



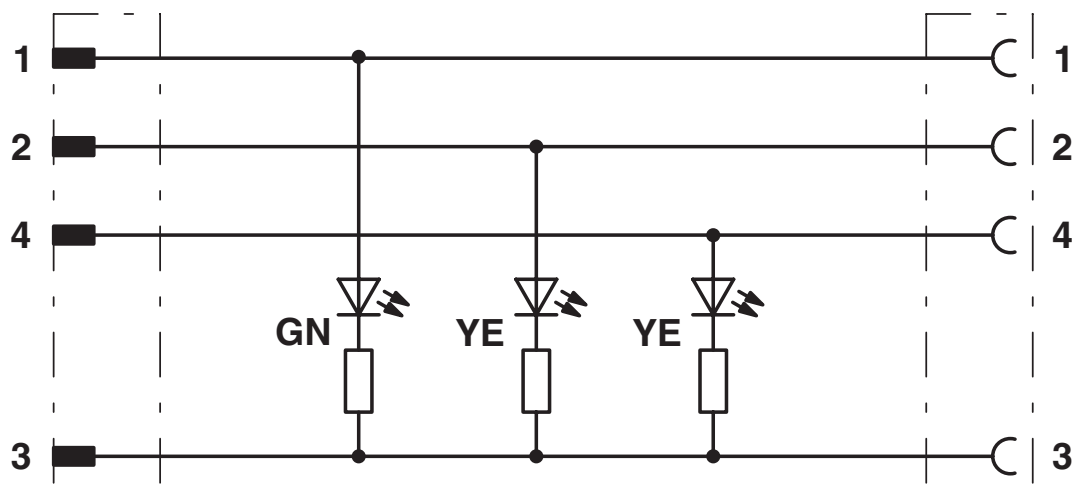
Pin assignment M12 socket, 4-pos., A-coded, view female side

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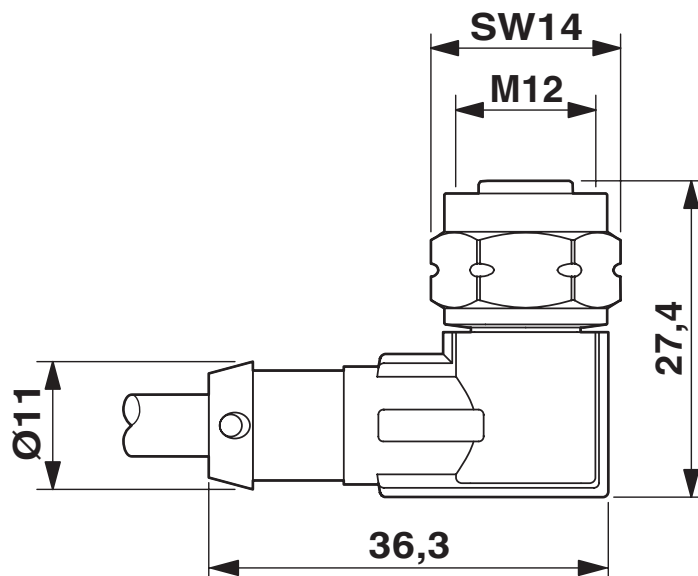
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Circuit diagram



Dimensional drawing



Socket M12 x 1, angled, with LED

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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-13.0	27060311

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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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Accessories

TSD 04 SAC - Torque screwdriver

1208429

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Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

SAC BIT M12-W14 - Tool

1212513

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Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a hexagonal knurl wrench size of 14 mm, with 4 mm hexagonal drive

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