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Sensor/Actuator cable, 4-position, Special mixture on PVC base, Black RAL 9005, Free cable end, on Socket straight M12, A-coded, Cable length: 1.5 m, For the food industry, With high-grade steel knurl



## Key commercial data

Packing unit	11
Weight per Piece (excluding packing)	69.1 GRM
Custom tariff number	85444290
Country of origin	Germany

## Technical data

#### Dimensions

Length of cable 1.5 m	
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### Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (Plug / socket)		
Degree of protection	IP65		
	IP67		
	IP68		
	IP69K		

#### General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq$ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101

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# Technical data

#### General

Status display	No
Surge voltage category	Ш
Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

#### Material

Inflammability class according to UL 94	НВ	
Contact material	CuSn	
Contact surface material	Ni/Au	
Contact carrier material	TPU GF	
Material of grip body	TPU, hardly inflammable, self-extinguishing	
Material, knurls	High-grade steel	
Sealing material	NBR	

## Cable

Cable type	PVC black FDA	
Cable type (abbreviation)	511	
Cable abbreviation	LiYY-HF	
Conductor cross section	0.34 mm <sup>2</sup>	
AWG signal line	22	
Conductor structure signal line	42x 0.10 mm	
Core diameter including insulation	1.52 mm ±0.05 mm	
Wire colors	brown, white, blue, black	
Overall twist	4 wires, twisted	
External sheath, color	Black RAL 9005	
External cable diameter D	5.2 mm ± 0.2 mm	
Outer sheath, material	Special mixture on PVC base	
Material conductor insulation	PVC	
Conductor material	Bare Cu litz wires	
Nominal voltage, cable	300 V	
Test voltage, cable	1500 V	
Special properties	FDA compliant	
Resistance to oil	good oil-resistance	
Other resistance	UV resistant	
	Silicone-free	
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)	
	-5 °C 90 °C (cable, flexible installation)	



# Classifications

### eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

### ETIM

ETIM 3.0	EC001855
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

# Approvals

#### Approvals

Approvals GOST			
Ex Approvals			

# Approvals submitted

### Approval details

GOST 📀

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Accessories

Accessories

Circular connector (cable-side)

Connector - SACC-M12MS-4CON-PG 7-VA - 1553161



Sensor/actuator connector, male, straight, 4-pos., M12, screw connection, high-grade steel knurl, cable screw connection Pg7

#### Connector - SACC-M12MR-4CON-PG 7-VA - 1553200



Sensor/actuator connector, male, angled, 4-pos., M12, screw connection, high-grade steel knurl, cable screw connection Pg7

#### Screwdriver tools

Adapter - SAC BIT M12-W14 - 1212513



SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



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

### Drawings

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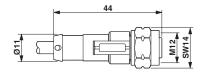


Schematic diagram



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

Dimensioned drawing



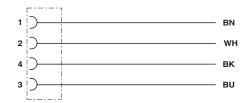
M12 x 1 socket, straight

Cable cross section



PVC black FDA [511]

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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