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Sensor/Actuator cable, 4-position, PVC, Black RAL 9005, Plug angled M12, A-coded, on Socket straight M12, A-coded, Cable length: 3 m

### **Product Features**

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# Key commercial data

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

## Technical data

#### **Dimensions**

Length of cable	3 m
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#### Ambient conditions

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

#### 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	≥ 10 MΩ
Coding	A - standard



# Technical data

### General

Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100

### 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	Zinc die-cast, nickel-plated
Sealing material	NBR

### Cable

Cable type	PVC black
Cable type (abbreviation)	PVC
Cable abbreviation	LiYY
UL AWM style	2464 / 1729 (80°C/300 V)
Conductor cross section	4x 0.34 mm² (signal line)
AWG signal line	22
Conductor structure signal line	19x 0.15 mm
Core diameter including insulation	1.26 mm ±0.05 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	Black RAL 9005
Outer sheath thickness	≥ 0.76 mm
External cable diameter D	4.7 mm ±0.15 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Cable weight	40 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 200 MΩ*km (at 20 °C)



# Technical data

## Cable

Conductor resistance	max. 57 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V

# Classifications

# eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801

## **ETIM**

ETIM 5.0	EC001855

# Approvals

## Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

## Approval details

UL Listed (II)	
Nominal current IN	4 A
Nominal voltage UN	125 V



# Approvals

cUL Listed • W	
Nominal current IN	4 A
Nominal voltage UN	125 V

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cULus Listed ***	
COLUS LISICU	

# Drawings

Schematic diagram



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

## Cable cross section



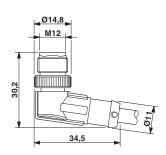
PVC black [PVC]

Schematic diagram



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

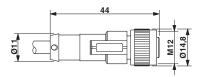
## Dimensional drawing



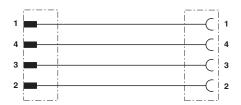
M12 x 1 male plug, angled



## Dimensional drawing



## Circuit diagram



M12 x 1 socket, straight

Contact assignment of the M12 plug and the M12 socket

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