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Sensor/Actuator cable, 8-position, PVC, black RAL 9005, Plug straight M12, A-coded, on free cable end, Cable length: 1.5 m

### **Product Features**



# **Key Commercial Data**

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

### Technical data

### **Dimensions**

Length of cable	1.5 m

#### Ambient conditions

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

### General

Rated current at 40°C	2 A
Rated voltage	30 V
Number of positions	8
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No

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# Technical data

### General

Protective circuit/component	Unwired
Overvoltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100

## Material

Flammability rating according to UL 94	НВ	
Contact material	CuZn	
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	

### Cable

Cable type	PVC black	
Cable type (abbreviation)	PVC	
Cable abbreviation	LiYY	
UL AWM style	2464 / 1729 (80°C/300 V)	
Conductor cross section	8x 0.25 mm² (signal line)	
AWG signal line	24	
Conductor structure signal line	14x 0.15 mm	
Core diameter including insulation	1.17 mm ±0.05 mm	
Thickness, insulation	≥ 0.23 mm	
Wire colors	white, brown, green, yellow, gray, pink, blue, red	
Overall twist	8 wires around filler to the core	
External sheath, color	black RAL 9005	
Outer sheath thickness	≥ 0.76 mm	
External cable diameter D	5.9 mm ±0.2 mm	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Cable weight	54 kg/km	
Outer sheath, material	PVC	
Material conductor insulation	PVC	
Conductor material	Bare Cu litz wires	
Insulation resistance	≥ 200 MΩ*km (at 20 °C)	
Conductor resistance	79 Ω/km (at 20 °C)	
Nominal voltage, cable	≤ 300 V AC	
Test voltage, cable	≥ 3000 V AC	



## Technical data

### Cable

Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (cable, flexible installation)

## 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 Nominal current IN 2 A
Nominal voltage UN 30 V



# Approvals

cUL Listed *	
Nominal current IN	2 A
Nominal voltage UN	30 V

(E)		
cULus Listed "U"		

# Drawings

Schematic diagram



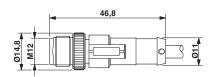
Pin assignment M12 plug, 8-pos., view plug side

Cable cross section



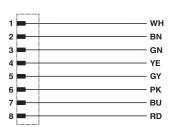
PVC black [PVC]

Dimensional drawing



M12 x 1 plug, straight

Circuit diagram



Contact assignment of the M12 plug

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