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Sensor/Actuator cable, 8-position, PVC, Black RAL 9005, Plug straight M12, A-coded, on free cable end, Cable length: 10 m

### **Product Features**

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## Key commercial data

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

### Technical data

#### **Dimensions**

Length of cable	10 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	2 A
Rated voltage	30 V
Number of positions	8
Contact resistance	$\leq 5~\text{m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
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	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	$\geq$ 200 M $\Omega$ *km (at 20 °C)
Conductor resistance	79 Ω/km (at 20 °C)



## Technical data

### Cable

Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC

## Classifications

## eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801

### **ETIM**

ETIM 5.0	EC001855

## Approvals

Approvals

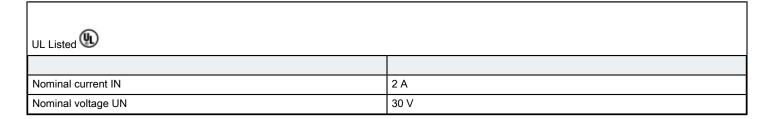
Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approvals submitted

## Approval details





## Approvals

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

55,285	
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cULus Listed ***	

## **Drawings**

Schematic diagram



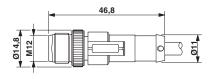
Pin assignment M12 plug, 8-pos., view plug side

Cable cross section



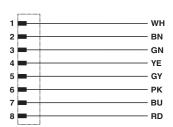
PVC black [PVC]

Dimensional drawing



M12 x 1 plug, straight

Circuit diagram



Contact assignment of the M12 plug

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