

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Sensor/Actuator cable, 4-position, PVC, Black RAL 9005, Plug straight M8, on free cable end, Cable length: 10 m

### **Product Features**

 $\overline{\mathbf{v}}$ 



## Key commercial data

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

### Technical data

#### **Dimensions**

Length of cable	10 m

### 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	30 V
Number of positions	4
Contact resistance	$\leq 5~\text{m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	A - standard

05/14/2015 Page 1 / 4



## Technical data

### General

Standards/regulations	M8 connector IEC 61076-2-104	
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	

## Cable

Cable type	PVC black
Cable type (abbreviation)	PVC
Cable abbreviation	LiYY
Conductor cross section	4x 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 (Core insulation)
	≥ 0.76 mm (Outer cable sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	Black RAL 9005
External cable diameter D	4.4 mm ±0.15 mm
Cable weight	33 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq$ 100 M $\Omega$ *km (at 20 °C)
Conductor resistance	max. 79 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	As per UL-Style 2464



# Classifications

Nominal voltage UN

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		
cUL Listed **			
Nominal current IN	4 A		

	_		
cULus List	(III)		
cl II ue Liet	ad E(YL) US		
Toolus List	ou		

125 V



# Drawings

Schematic diagram



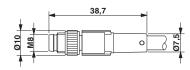
Pin assignment M8 plug, 4-pos., view male side

Cable cross section

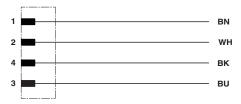


PVC black [PVC]

Dimensional drawing



Circuit diagram



M8 x 1 male plug, straight version

Contact assignment of the M12 plug

Phoenix Contact 2015 @ - all rights reserved http://www.phoenixcontact.com