

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://download.phoenixcontact.com)



Sensor/Actuator cable, 4-position, Special mixture on PVC base, Black RAL 9005, Free cable end, on Socket angled M12, A-coded, with 3 LEDs, 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)	70.97 GRM
Custom tariff number	85444290
Country of origin	Poland

## Technical data

#### **Dimensions**

Length of cable	1.5 m

#### 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	24 V
Number of positions	4
Contact resistance	$\leq 5~\text{m}\Omega$
Insulation resistance	$\geq$ 100 M $\Omega$
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101



## Technical data

#### General

Status display	3 LEDs
Surge voltage category	II
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 mm²
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
eCI@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCI@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





#### 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 Po7

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  $\frac{1}{2}$ 

## **Drawings**



### Schematic diagram



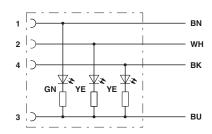
Pin assignment M12 socket, 4-pos., A-coded, view female side

#### Cable cross section



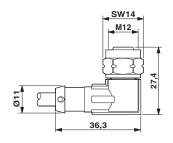
PVC black FDA [511]

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

#### Dimensioned drawing



Socket M12 x 1, angled, with LED

© Phoenix Contact 2013 - all rights reserved http://www.phoenixcontact.com