

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, 5-position, PVC, Black RAL 9005, Plug straight M12, A-coded, on Socket angled M12, A-coded, with 3 LEDs, Cable length: 3 m

Product Features

- ☑ Convenient: increased machine availability thanks to quick and easy diagnostics

 $\overline{\mathbf{v}}$



Key commercial data

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

Technical data

Dimensions

Length of cable	13 m
	1 •

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	24 V
Number of positions	5
Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	\geq 100 M Ω



Technical data

General

Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	3 LEDs
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	5x 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, green-yellow	
Overall twist	5 wires around filler to the core	
External sheath, color	Black RAL 9005	
Outer sheath thickness	≥ 0.76 mm	
External cable diameter D	5 mm ±0.15 mm	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Cable weight	51 kg/km	
Outer sheath, material	PVC	
Material conductor insulation	PVC	
Conductor material	Bare Cu litz wires	



Technical data

Cable

Insulation resistance	\geq 200 M Ω *km (at 20 °C)
Conductor resistance	max. 57 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Flame resistance	As per UL-Style 2464

Classifications

eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27279218

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	4 A	
Nominal voltage UN	24 V	

(II)		
cULus Listed • • • • • • • • • • • • • • • • • • •		

Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

M12 x 1 plug, straight

Cable cross section



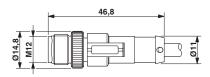
PVC black [PVC]

Schematic diagram



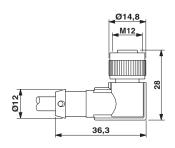
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Dimensional drawing

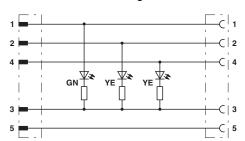




Dimensional drawing



Circuit diagram



Contact assignment of M12 plugs / sockets with 3 LEDs

M12 x 1 socket, angled

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