

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, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 10 m

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 122320
GTIN	4046356122320
Weight per Piece (excluding packing)	520.000 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

	Length of cable	10 m
--	-----------------	------

Ambient conditions

Degree of protection	IP65
	IP67

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Insulation resistance	\geq 100 MΩ
Coding	A - standard



Technical data

General

Status display	No	
Overvoltage category	Ш	
Degree of pollution	3	
Insertion/withdrawal cycles	≥ 100	

Material

HB
CuSn
Ni/Au
TPU GF
TPU, hardly inflammable, self-extinguishing
Zinc die-cast, nickel-plated
NBR

HΒ

Standards and Regulations

Flammability rating according to UL 94	
--	--

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	LiF9YC11Y
UL AWM style	20549
Conductor cross section	5x 0.34 mm² (Signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm (Signal line)
Thickness, insulation	≥ 0.21 mm
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	black-gray RAL 7021
External cable diameter D	5.9 mm ±0.2 mm
Smallest bending radius, fixed installation	29.5 mm
Smallest bending radius, movable installation	59 mm (up to +60°C)
Number of bending cycles	400000
Bending radius	59 mm
Traversing path	10 m
Traversing rate	3 m/s



Technical data

Cable

Acceleration	10 m/s²	
Cable weight	48 kg/km	
Outer sheath, material	PUR	
Material conductor insulation	PP	
Conductor material	Bare Cu litz wires	
Insulation resistance	70 GΩ*km (at 20 °C)	
Conductor resistance	max. 57 Ω/km (at 20 °C)	
Nominal voltage, cable	300 V (at 20 °C)	
Test voltage Core/Core	3000 V (at 20 °C)	
Special properties	Flexible cable conduit capable	
Flame resistance	in acc. with UL FT-2	
Halogen-free	in accordance with DIN VDE 0472 part 815	
Other resistance	hydrolysis and microbe resistant	
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A	
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)	
	-25 °C 80 °C (cable, flexible installation)	

Drawings

Schematic diagram



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

Cable cross section



PUR halogen-free black [PUR]





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

Dimensional drawing



Plug, M12 x 1, straight, shielded

04/11/2017 Page 3 / 5





cUL Listed	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal current IN		4 A	
Nominal voltage UN		125 V	

cULus Listed



04/11/2017 Page 4 / 5



Phoenix Contact 2017 © - all rights reserved http://www.phoenixcontact.com