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Sensor/Actuator cable, 3-position, PUR, black-gray RAL 7021, Plug straight M8, A-coded, on Socket angled M8, A-coded, with 2 LEDs, Cable length: 2 m



Key Commercial Data

Packing unit	5 STK
Minimum order quantity	25 STK
GTIN	4 017918 173548
GTIN	4017918173548
Sales Key	02

Technical data

Dimensions

Length of cable	2 m
Aughtent conditions	

Ambient conditions

Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Insulation resistance	≥ 100 GΩ
Coding	A - standard
Status display	2 LEDs
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100

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Technical data

Material

Flammability rating 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

Standards and Regulations

Flammability rating according to UL 94	НВ
----------------------------------------	----

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	3x 0.25 mm²
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 0.5 mm
External cable diameter D	3.6 mm ±0.15 mm
Smallest bending radius, fixed installation	18 mm
Smallest bending radius, movable installation	36 mm
Number of bending cycles	10000000
Bending radius	44 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Cable weight	18 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Conductor resistance	\leq 78 Ω /km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V



Technical data

Cable

Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant
	Highly resistant to acids, alkaline solutions and solvents
	Resistant to salt water
	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)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Schematic diagram



Schematic diagram



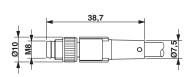
Pin assignment M8 plug, 3-pos., view male side

Cable cross section



Dimensional drawing

Pin assignment M8 socket, 3-pos., view female side

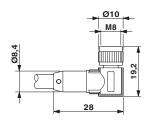


PUR halogen-free black [PUR]

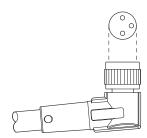
M8 x 1 male plug, straight version



Dimensional drawing



Schematic diagram



Socket M8 x 1, angled, with LED

Layout of connector pin assignments

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed	UL	http://database.ul.cor	m/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal current IN			4 A	
Nominal voltage UN			24 V	

cUL I	Listed	C UL	http://database.ul.com	m/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal curre	ent IN			4 A	
Nominal volta	ige UN			24 V	

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