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Sensor/Actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, on free cable end, Cable length: 10 m

Why buy this product

- ☑ Easy and safe: 100% electrically tested plug-in components
- ☑ Our standard: robust halogen-free PUR cable



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 020930
Weight per Piece (excluding packing)	320.0 g
Custom tariff number	85444290
Country of origin	Poland
Product key	BF1BGA
Note	Made to Order (non-returnable)

Technical data

Dimensions

Length of cable	10 m
Stripping length of the free conductor end	50 mm

Ambient conditions

Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	1.5 A
Rated voltage	30 V



Technical data

External sheath, color

Outer sheath thickness

External cable diameter

Outer sheath, material

Conductor material

Insulation resistance

Conductor resistance

Cable weight

Material, filler

External cable diameter D

Material conductor insulation

General

Ocheral	
Number of positions	6
Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired
Overvoltage category	
Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)
Material	· · · ·
Inflammability class according to UL 94	HB
Contact material	CuZn
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	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y
Conductor cross section	6x 0.25 mm² (signal line)
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, white, blue, black, gray, pink
Overall twist	Six cores around the filler to the core

black-gray RAL 7021

approx. 0.7 mm

5 mm ±0.15 mm 34 kg/km

Bare Cu litz wires

78 Ω/km (at 20 °C)

 \geq 100 MQ*km (at 20 °C)

5.00 mm

PUR

PE PP



Technical data

Cable

Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with DIN UL-Style 20549
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	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)
	-5 °C 80 °C (cable, flexible installation)

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218

ETIM

ETIM 2.0	EC000830
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

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed	
Nominal current IN	4 A
Nominal voltage UN	125 V

cUL Listed 🖤	
Nominal current IN	4 A
Nominal voltage UN	125 V

EAC

I

cULus Listed

Drawings

Schematic diagram



Pin assignment M8 plug, 6-pos., view male side

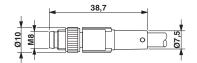
Cable cross section



PUR halogen-free black [PUR]



Dimensional drawing



Circuit diagram

·	1
1 💻 —	BN
2	WH
3 💻	BU
4 💻	вк
5 💻	GY
6	РК
	FK FK

Contact assignment of the M8 plug

M8 x 1 male plug, straight version

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