

1521931

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded, free cable end, on Socket straight M8, coding: A, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1521931	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	BF01	
Product key	AF1BJA	
Catalog page	Page 199 (C-2-2019) 4017918968892	
GTIN		
Weight per piece (including packing)	170.1 g	
Weight per piece (excluding packing)	159.3 g	
Customs tariff number	85444290	
Country of origin	PL	



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Technical data

Product properties

Product type	Sensor/actuator cable	
Application	Standard	
Number of positions	4	
No. of cable outlets	1	
Shielded	yes	
Coding	A	
Insulation characteristics		
Overvoltage category	II	
Degree of pollution	3	

Material specifications

Flammability rating according to UL 94	HB NBR	
Seal material		
Material of grip body	TPU, hardly inflammable, self-extinguishing	
Contact material	CuSn	
Contact surface material	Ni/Au	
Contact carrier material	TPU GF	
Material for screw connection	Zinc die-cast, nickel-plated	

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

	Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)	

Connector

Connection 1



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Туре	free cable end
Connection 2	
Туре	Socket straight M8
Number of positions	4
Coding type	A
ble/line	
Cable length	5 m
PUR halogen-free black [PUR]	
Dimensional drawing	
Cable weight	31 kg/km
UL AWM Style	20549
Number of positions	4
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	4x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)
External cable diameter	4.70 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.50 mm (Outer cable sheath)
Overall twist	4 wires, twisted
	80 %
Optical shield covering	
Optical shield covering Max. conductor resistance	max. 78 Ω/km (at 20 °C)
	max. 78 Ω/km (at 20 °C) ≥ 100 GΩ*km (at 20 °C)
Max. conductor resistance Insulation resistance	max. 78 Ω/km (at 20 °C) ≥ 100 GΩ*km (at 20 °C) ≤ 300 V
Max. conductor resistance Insulation resistance Nominal voltage, cable	≥ 100 GΩ*km (at 20 °C) ≤ 300 V
Max. conductor resistance Insulation resistance Nominal voltage, cable Test voltage	≥ 100 GΩ*km (at 20 °C)
Max. conductor resistance Insulation resistance Nominal voltage, cable	≥ 100 GΩ*km (at 20 °C) ≤ 300 V ≥ 3000 V



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	Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
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)
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Standards and regulations

	Standard designation	M8 connector	
Standards/specifications		IEC 61076-2-104	

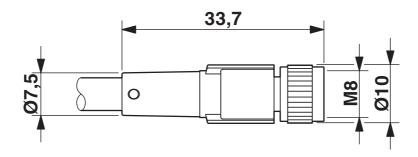


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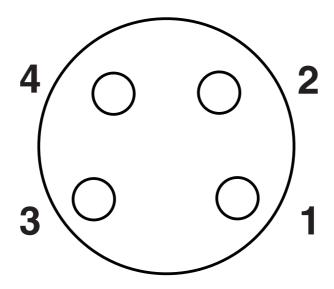
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



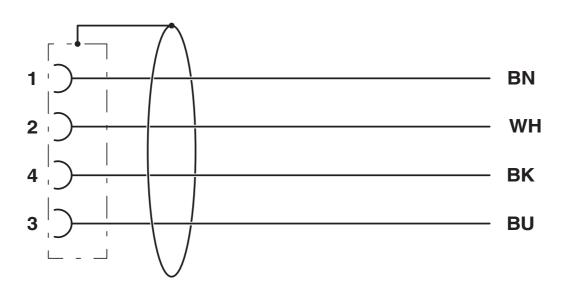
Pin assignment M8 socket, 4-pos.



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Circuit diagram



Contact assignment of M8 socket



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1521931

UL Listed Approval ID: FILE E 221474					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	4 A	-	-

• <u>®</u>	CUL Listed Approval ID: FILE E 221474					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		30 V	4 A	-	-	

EAC	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387
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Classifications

	ECLASS-13.0	27060311		
	202.00 10.0	21000011		
ETIM				
	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	3.637 kg CO2e

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