

1521737

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Sensor/actuator cable, 3-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	1521737
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	BF1BIA
Catalog page	Page 193 (C-2-2019)
GTIN	4017918968731
Weight per piece (including packing)	144.3 g
Weight per piece (excluding packing)	139 g
Customs tariff number	85444290
Country of origin	US



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### Technical data

#### Product properties

Product type	Sensor/actuator cable	
Application	Standard	
Number of positions	3	
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	НВ
Seal material	NBR
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 <sub>N</sub>	4 A

### Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

### 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	3	
Coding type	A	
1.1.0		
ble/line		
Cable length	5 m	
PUR halogen-free black [PUR]		
Dimensional drawing		
Cable weight	26 kg/km	
UL AWM Style	20549	
Number of positions	3	
Shielded	yes	
Cable type	PUR halogen-free black [PUR]	
Conductor structure signal line	32x 0.10 mm	
AWG signal line	24	
Conductor cross section	3x 0.25 mm² (Signal line)	
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)	
External cable diameter	4.35 mm ±0.2 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, blue, black	
Thickness, insulation	≥ 0.21 mm (Core insulation)	
	≥ 0.50 mm (Outer cable sheath)	
Overall twist	3 wires, twisted	
Optical shield covering	80 %	
Max. conductor resistance	max. 79 Ω/km	
Insulation resistance	≥ 100 GΩ*km	
Nominal voltage, cable	300 V	
Test voltage	3000 V	
Smallest bending radius, fixed installation	22 mm	
Smallest bending radius, movable installation 44 mm		



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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

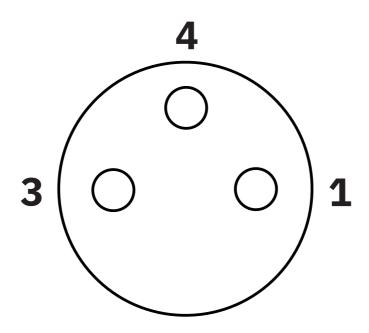


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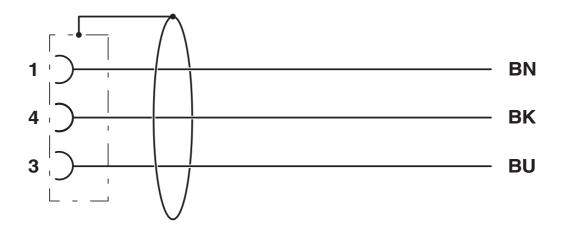
### Drawings





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

Circuit diagram

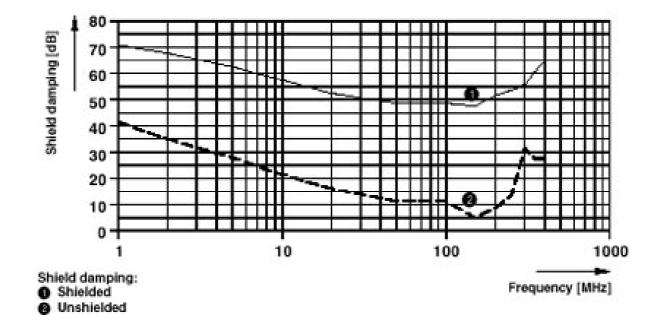




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### Diagram

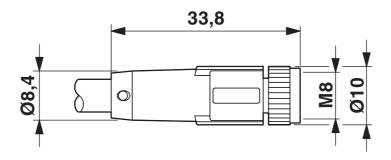




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### Dimensional drawing



Socket M8 x 1, straight



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1521737

<b>D</b>	<b>UL Listed</b> Approval ID: FILE E 221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	4 A	-	-

• <u>®</u>	<b>cUL Listed</b> Approval ID: FILE E 221474	1			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	4 A	-	-

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cULus Listed



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27060311			
	ECLASS-12.0	27060311			
	ECLASS-13.0	27060311			
ETIM					
	ETIM 9.0	EC001855			
	ETIM 9.0	EC001000			
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	0.811 kg CO2e

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