

1404149

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Sensor/actuator cable, 8-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
- · Save space with high-pos. connectors
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

#### Commercial data

Item number	1404149
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BNA
GTIN	4046356680677
Weight per piece (including packing)	244.7 g
Weight per piece (excluding packing)	230 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	8
No. of cable outlets	1
Shielded	yes
Coding	A
Insulation characteristics	
Overvoltage category	III
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 <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	1.5 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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Type   Scoket straight M8   Number of positions   8   Number of positions   8   Coding type   A   A   A   A   A   A   A   A   A   A		
Type	Туре	free cable end
Number of positions   A	Connection 2	
Coding type   A	Туре	Socket straight M8
Cable length   5 m	Number of positions	8
Cable length         5 m           PUR halogen-free black [PUR]	Coding type	А
Cable length         5 m           PUR halogen-free black [PUR]		
PUR halogen-free black [PUR]  Dimensional drawing  Cable weight  Li AWM Style  Cable type  Cable type  PUR halogen-free black [PUR]  Conductor structure signal line  AWG signal line  AWG signal line  26  Conductor cross section  External cable diameter  Conductor extractive signal line  External cable diameter  Conductor structure  Separation  External cable diameter  Conductor material  PUR  External sheath, color  Conductor material  Bare Cu litz wires  Material, filler  PE  Material wire insulation  PP  Single wire, color  Thickness, insulation  PP  Thickness, insulation  Powerall twist  Separation  Single wire, color  Thickness, insulation  PP  Length of twist, overall twist  Separation  Sepa	ble/line	
Cable weight 45 kg/km  UL AWM Style 20549  Number of positions 8 Shielded yes Cable type PUR halogen-free black [PUR]  Conductor structure signal line 18x 0.10 mm  AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line)  Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line)  External cable diameter 5.90 mm ±0.2 mm  Outer sheath, material PUR  External sheath, color black-gray RAL 7021  Conductor material Bare Cu litz wires  Material, filler PE  Material wire insulation PPP  Single wire, color white, brown, green, yellow, gray, pink, blue, red  Thickness, insulation PP  Single wire, color white, brown, green, yellow, gray, pink, blue, red  2 0.21 mm (Signal line)  2 0.28 mm (Outer cable sheath)  Overall twist 8 wires around filler to the core  Length of twist, overall twist 58 mm  Optical shield covering 85 %  Max. conductor resistance 15 00 V AC  Insulation resistance 15 00 V AC  Test voltage \$ 300 V AC (Spark test)	Cable length	5 m
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Smallest bending radius, fixed installation	29.5 mm
Smallest bending radius, movable installation	59 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 59 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥1000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-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)

## Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)

## Standards and regulations

#### M8

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

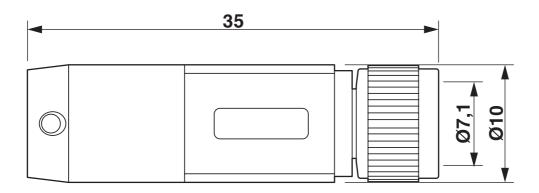


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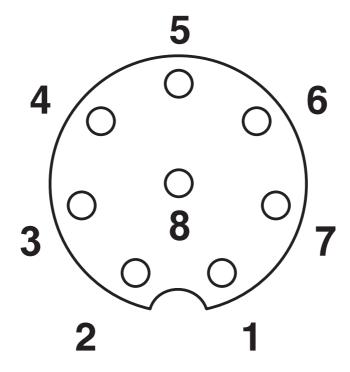
## Drawings

### Dimensional drawing



Socket M8 x 1, straight

Schematic diagram

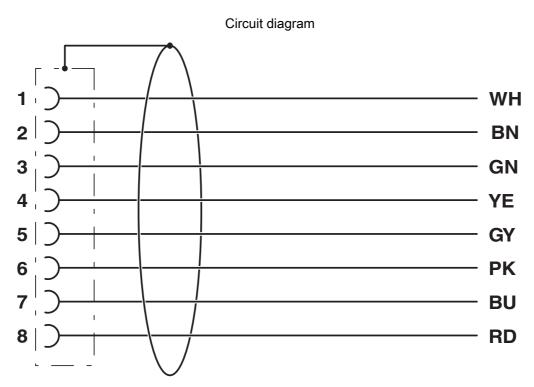


Connector pin assignment of M8 socket, 8-pos., view of socket side



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Contact assignment of M8 socket



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404149

UL Listed Approval ID: F	FILE E 221474			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	30 V	1.5 A	-	-

cUL Listed Approval ID: FILE E 22	CUL Listed 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>
keine				
	30 V	1.5 A	-	-

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



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## Classifications

### **ECLASS**

	ECLASS-13.0	27060311			
	ECLASS-15.0	27060311			
ETIM					
	ETIM 9.0	EC001855			
LINODOO					
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	3.884 kg CO2e

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