

1404135

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M8, coding: A, on Socket straight M8, coding: A, cable length: 1.5 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	1404135
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF01
Product key	AF1BNA
GTIN	4046356751872
Weight per piece (including packing)	85.2 g
Weight per piece (excluding packing)	81.1 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	
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

Mec	hanical	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

_	DI ( ) 1 ( ) 10
Type	Plug straight M8
i ype	Flug Straight Mo



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Number of positions	8
Coding type	A

#### Connection 2

Туре	Socket straight M8
Number of positions	8
Coding type	A

#### Cable/line

Cable length	1.5 m

#### PUR halogen-free black [PUR]

Dimensional drawing



able weight	45 kg/km
L AWM Style	20549
umber of positions	8
hielded	yes
able type	PUR halogen-free black [PUR]
onductor structure signal line	18x 0.10 mm
WG signal line	26
onductor cross section	8x 0.14 mm² (Signal line)
/ire diameter incl. insulation	1 mm ±0.02 mm (Signal line)
xternal cable diameter	5.90 mm ±0.2 mm
uter sheath, material	PUR
kternal sheath, color	black-gray RAL 7021
onductor material	Bare Cu litz wires
laterial, filler	PE
aterial wire insulation	PP
ngle wire, color	white, brown, green, yellow, gray, pink, blue, red
nickness, insulation	≥ 0.21 mm (Signal line)
	≥ 0.38 mm (Outer cable sheath)
verall twist	8 wires around filler to the core
ength of twist, overall twist	58 mm
ptical shield covering	85 %
ax. conductor resistance	139 Ω/km (at 20 °C)
sulation resistance	1 GΩ*km (at 20 °C)
ominal voltage, cable	≤ 300 V AC
est voltage	≥ 3000 V AC (Spark test)



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Test voltage Core/Shield	≥ 2000.00 V AC (for 60 s)
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/s²
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

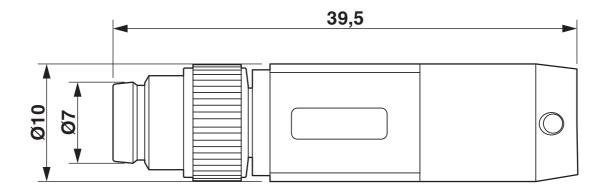


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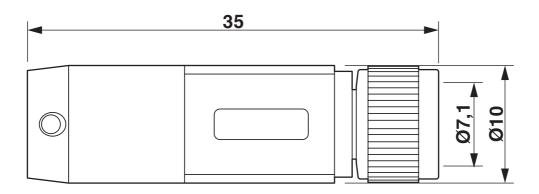
## Drawings

### Dimensional drawing



M8 x 1 male plug, straight version

### Dimensional drawing



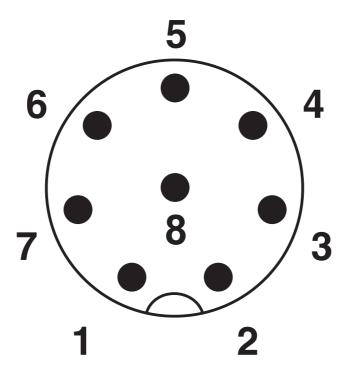
Socket M8 x 1, straight



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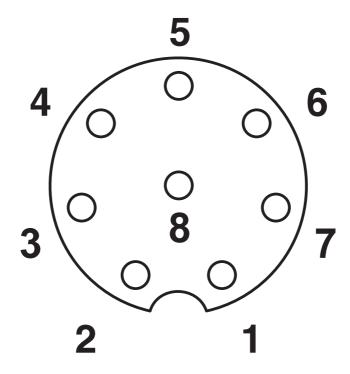
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Schematic diagram



M8 plug pin assignment, 8-pos., view of pin side

Schematic diagram

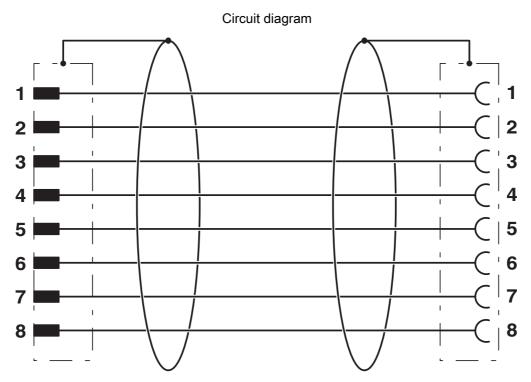


Connector pin assignment of M8 socket, 8-pos., view of socket side



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Contact assignment of M8 plugs/sockets



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404135

<u> </u>	<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>
		30 V	1.5 A	-	-

• <u>®</u>	<b>cUL Listed</b> Approval ID: FILE E 22147	74			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	1.5 A	-	-

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



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## Classifications

ECLASS					
	ECLASS-13.0	27060311			
E	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	2.358 kg CO2e

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