

1569304

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Sensor/actuator cable, 4-position, PUR halogen-free, resistant to welding sparks, highly flexible, gray RAL 7001, Plug straight M12, coding: A, with 3 LEDs, on Socket angled M12, coding: A, with 3 LEDs, cable length: 3 m

### Commercial data

Item number	1569304
Packing unit	1 pc
Minimum order quantity	25 pc
Product key	AF1CCA
GTIN	4046356555487
Weight per piece (including packing)	118.9 g
Weight per piece (excluding packing)	118.6 g
Country of origin	PL



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### Technical data

### Product properties

Product type	Sensor/actuator cable	
Number of positions	4	
No. of cable outlets	1	
Shielded	no	
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 <sub>N</sub>	250 V
Nominal current I <sub>N</sub>	4 A

### Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100

### Signaling

Status display	3 LEDs
Status display present	yes

#### Connection data

#### Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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#### Connector

#### Connection 1

Туре	Plug straight M12
Number of positions	4



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Minimum bending radius, fixed installation

Smallest bending radius, fixed installation

Minimum bending radius, flexible installation

Smallest bending radius, movable installation

Jumber of positions  4 Coding type  A  A  A  A  A  A  A  A  A  A  A  A  A	et angled M12  The transfer of the extremely robust outer sheath, this cable should only
Sock dumber of positions 4 Coding type A Soline Cable length 3 m Sy, highly flexible PUR [800] Dimensional drawing  Due be st Cable weight 33.5 DL AWM Style 2054 Dumber of positions 4 Shielded no Cable type Gray Conductor structure signal line 42x 0	
Jumber of positions  4 A Coding type A A A A A A A A A A A A A A A A A A A	
Coding type  A  A  A  A  A  A  A  A  A  A  A  A  A	o the extremely robust outer sheath, this cable should only
Cable length 3 m  Sy, highly flexible PUR [800]  Dimensional drawing  Rote Due be st Cable weight 33.5  DL AWM Style 2054  Dumber of positions 4  Cable type Gray  Conductor structure signal line 42x 6	o the extremely robust outer sheath, this cable should only
Cable length 3 m  y, highly flexible PUR [800]  Dimensional drawing  Due be st Cable weight 33.5  UL AWM Style 2054  Shielded no Cable type Gray Conductor structure signal line 42x 0	o the extremely robust outer sheath, this cable should only
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Due be st Cable weight 33.5  JL AWM Style 2054 Shielded no Cable type Gray Conductor structure signal line 42x 0	o the extremely robust outer sheath, this cable should only
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UL AWM Style 2054  Jumber of positions 4  Shielded no Cable type Gray Conductor structure signal line 42x 0	ripped in 5 cm increments.
Aumber of positions 4 Shielded no Cable type Gray Conductor structure signal line 42x 0	kg/km
Shielded no Cable type Gray Conductor structure signal line 42x 0	9
Cable type Gray Conductor structure signal line 42x 0	
Conductor structure signal line 42x 0	
	highly flexible PUR [800]
WG signal line 22	.10 mm
Conductor cross section 4x 0.	34 mm² (Signal line)
Vire diameter incl. insulation 1.3 n	ım ±0.05 mm (Signal line)
External cable diameter 4.80	mm ±0.2 mm
Outer sheath, material PUR	
external sheath, color gray	RAL 7001
	Cu litz wires
Material wire insulation PP	
	n, white, blue, black
	es, twisted
	ox. 53 Ω/km
•	MΩ*km
Iominal voltage, cable 300 V	
rest voltage 2000	

4 x D

7.5 x D

20 mm

36 mm



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Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 7,5 x D, Traversing path: 5 m, Traversing rate: 3.3 m/s, Acceleration: 5 m/s²
	Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s²
Dynamic load capacity (torsion)	Torsion: ±360 °/m, Torsion cycles: 1000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	Silicone-free
Special properties	Cable jacket is welding spark-resistant, recyclable, matt, low-adhesion, abrasion-resistant, flame-retardant, and self-extinguishing
	Free from silicone and cadmium
	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
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C 90 °C (Plug / socket)
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

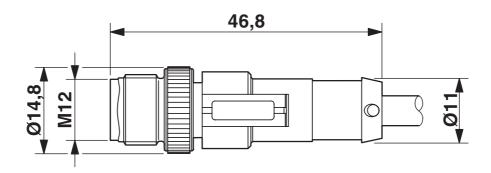


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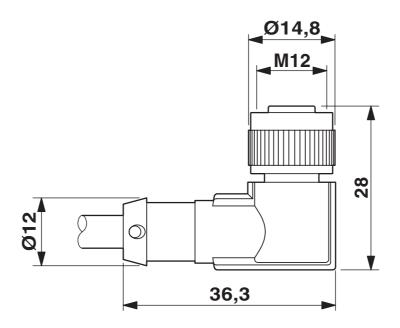
### Drawings

### Dimensional drawing



Plug, M12 x 1, straight, shielded

### Dimensional drawing



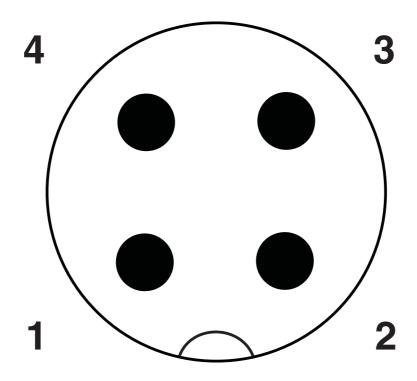
Socket M12 x 1, angled, with LED



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### Schematic diagram



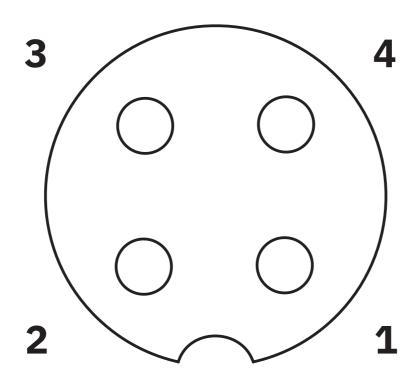
Pin assignment M12 plug, 4-pos., A-coded, view plug side



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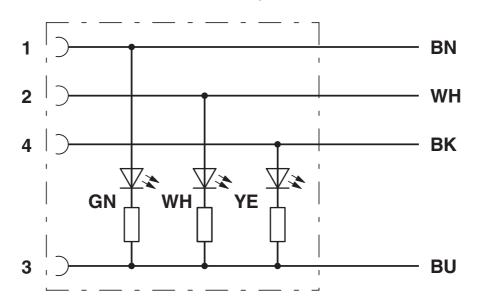
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### Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

### Circuit diagram



Contact assignment of the M12 plug and the M12 socket



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### Classifications

### **ECLASS**

	ECLASS-13.0	27060311	
	ECLASS-15.0	27060311	
ETIM			
	ETIM 8.0	EC001855	
UNSPSC			
UI	NOFOC		
	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%

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