

1446595

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Sensor/actuator cable, 3-pos., PUR halogen-free, black-gray RAL 7021, straight M12 SPEEDCON plug, A-coded, to valve connector C (8 mm), with 1 LED, connected to Z diode, cable length: 1.0 m

### Commercial data

Item number	1446595
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1DJA
GTIN	4046356639972
Weight per piece (including packing)	124.1 g
Weight per piece (excluding packing)	124.1 g
Country of origin	PL



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## Technical data

### Product properties

Product type	Sensor/actuator cable with valve connector
Number of positions	3
No. of cable outlets	2
Shielded	no
Coding	A
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Material housing valve plug	TPU
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Contact material	CuSn
Valve plug contact insert material	PA 6.6
Contact surface material	Sn
Material for screw connection	Zinc die-cast, nickel-plated

### Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	24 V AC
	24 V DC
Nominal current I <sub>N</sub>	4 A

## Signaling

Status display	1 LED
Status display present	yes

### Connector

#### Connection 1

Туре	Plug straight M12 SPEEDCON
Locking type	SPEEDCON
Coding type	A

#### Connection 2

Туре	Valve connector C (8 mm)
Material	CuSn (Contact)
	Sn (Contact surface)



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	PA 6.6 (Contact carrier)
	TPU (Housing)
Protective circuit	Z diode
ole/line	
Cable length	1 m
UR halogen-free black [PUR]	
Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	3x 0.5 mm²
Wire diameter incl. insulation	1.5 mm ±0.05 mm (Signal line)
External cable diameter	4.50 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	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
Max. conductor resistance	39 Ω/km (at 20 °C)
Insulation resistance	min. 20 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 1200 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	22.5 mm
Smallest bending radius, movable installation	45 mm
Dynamic load capacity (bending)	Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815



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	According to DIN EN 50265-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	largely oil-resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-20 °C 85 °C (Valve connector)
	-40 °C 80 °C (cable, fixed installation)
	-15 °C 80 °C (Cable, flexible installation)

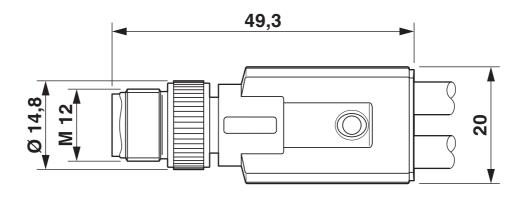


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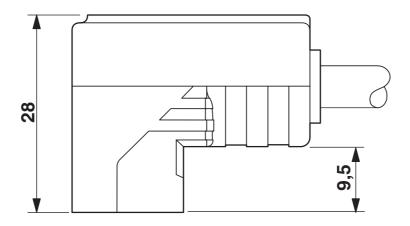
# Drawings

### Dimensional drawing



Plug M12 x 1, Y distributor

### Dimensional drawing



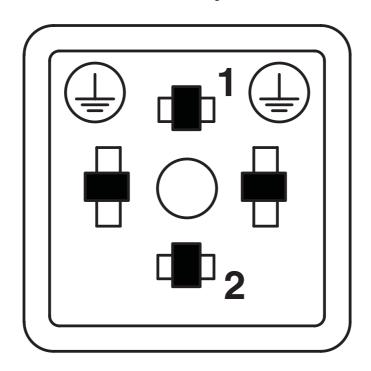
Valve connector, type C, side view



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## Schematic diagram



Valve connector connector pin assignment, type C



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# Classifications

EC	CLASS	
	ECLASS-13.0	27060312
	ТІМ	

**UNSPSC** 

ETIM 8.0

UNSPSC 21.0 31251500

EC001855



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# Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements  Exemption	Yes 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com