

1434895

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 0.6 m

### Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Save time, thanks to installation with SPEEDCON fast locking system
- · Convenient: increased machine availability thanks to guick and easy diagnostics
- · Our standard: robust halogen-free PUR cable

### Commercial data

Item number	1434895
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	BF1DJA
Catalog page	Page 228 (C-2-2019)
GTIN	4046356413299
Weight per piece (including packing)	54.22 g
Weight per piece (excluding packing)	50.3 g
Customs tariff number	85444290
Country of origin	PL



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### Technical data

### Product properties

Product type	Sensor/actuator cable with valve connector
Application	Standard
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	НВ
Seal material	TPU
Material housing valve plug	TPU
Material of grip body	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

### Valve connector characteristics

Fixing screws	M3 x 29
Pulse power	40 W (at 100 μs square-wave pulse)
Terminal voltage	70 V (at 2 mA constant current)
Reverse voltage	50 V

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 100 (M12 connector)

### Signaling



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Status display	1 LED
Status display present	Yes

### Connector

### Connection 1

Туре	Plug straight M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

### Connection 2

Туре	Valve connector A
Material	CuSn (Contact)
	Sn (Contact surface)
	PA 6.6 (Contact carriers)
	TPU (Housing)

### Cable/line

Cable length	0.6 m

### PUR halogen-free black [PUR]

Dimensional drawing



Cable weight30 kg/kmUL AWM Style20549Number of positions3ShieldednoCable typePUR halogen-free black [PUR]Conductor structure signal line28x 0.15 mmAWG signal line20Conductor cross section3x 0.5 mm²Wire diameter incl. insulation1.5 mm ±0.05 mm (Signal line)External cable diameter4.50 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorblack 1, black 2, green/yellow		
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	Cable weight	30 kg/km
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	UL AWM Style	20549
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	Number of positions	3
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	Shielded	no
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	Cable type	PUR halogen-free black [PUR]
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	Conductor structure signal line	28x 0.15 mm
Wire diameter incl. insulation  1.5 mm ±0.05 mm (Signal line)  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	AWG signal line	20
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	Conductor cross section	3x 0.5 mm²
Outer sheath, material PUR  External sheath, color black-gray RAL 7021  Conductor material Bare Cu litz wires  Material wire insulation PP	Wire diameter incl. insulation	1.5 mm ±0.05 mm (Signal line)
External sheath, color black-gray RAL 7021  Conductor material Bare Cu litz wires  Material wire insulation PP	External cable diameter	4.50 mm ±0.2 mm
Conductor material Bare Cu litz wires  Material wire insulation PP	Outer sheath, material	PUR
Material wire insulation PP	External sheath, color	black-gray RAL 7021
	Conductor material	Bare Cu litz wires
Single wire, color black 1, black 2, green/yellow	Material wire insulation	PP
	Single wire, color	black 1, black 2, green/yellow



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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
Max. bending cycles	15000000
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN VDE 0482
	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)	-25 °C 90 °C (Plug / socket)
	-20 °C 85 °C (valve plug)
	-40 °C 80 °C (cable, fixed installation)
	-15 °C 80 °C (Cable, flexible installation)

### Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Valve connector
Standards/specifications	EN 175301-803

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