

1434950

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12 SPEEDCON, coding: A, on Valve connector A, with 1 LED, Wiring: Z diode, cable length: 1.5 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	1434950
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF07
Product key	AF1DJA
GTIN	4046356413343
Weight per piece (including packing)	82.5 g
Weight per piece (excluding packing)	79.7 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	

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
	0.6 Nm (Valve connector)

Material specifications

Flammability rating according to UL 94	НВ
Seal material	TPU
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 _N	24 V AC
	24 V DC
Nominal current I _N	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



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Mec	hanical	l data

	Insertion/withdrawal cycles	≥ 100 (M12 connector)
Się	gnaling	
	Status display	1 LED
	Status display present	yes

Connector

Connection 1

Туре	Plug angled 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 carrier)
	TPU (Housing)
Protective circuit	Z diode

Cable/line

Cable length	1.5 m

PUR 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



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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/s ²
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) (male connector/female connector)	-25 °C 90 °C (Plug / socket)
Ambient temperature (operation) (Valve connector)	-20 °C 85 °C (Valve connector)

Standards and regulations

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

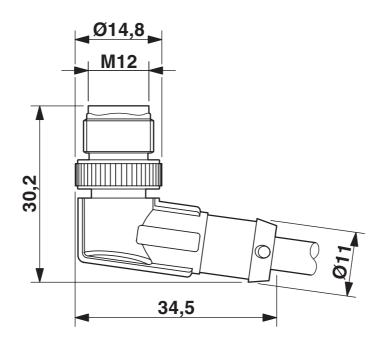


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Drawings

Dimensional drawing



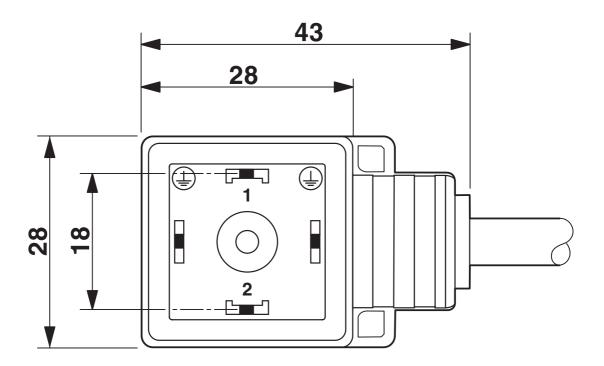
M12 x 1 male plug, angled



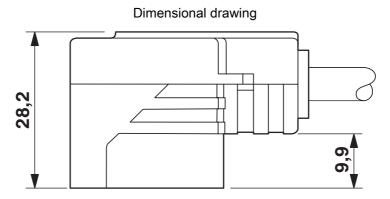
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Dimensional drawing



Valve connector, type A

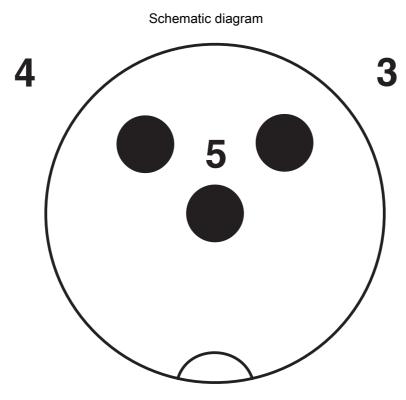


Valve connector, type A, side view



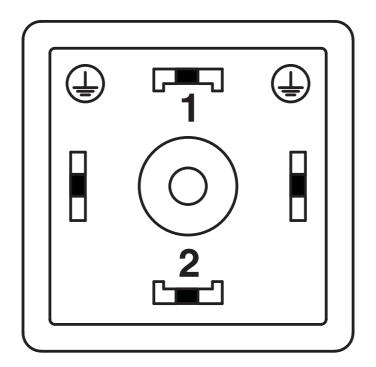
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Pin assignment M12 plug, 3-pos., valve connector

Schematic diagram

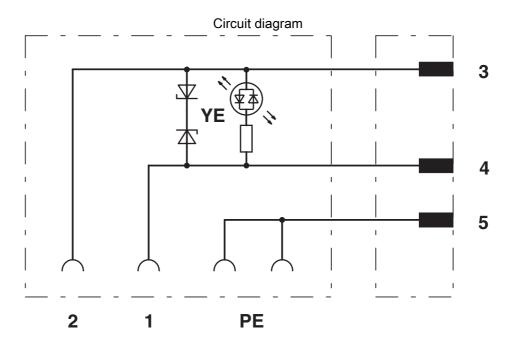


Valve connector pin assignment, type A



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Contact assignment of M12 plug and valve connector



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1434950

•	CSA Approval ID: 13631				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		24 V	4 A	-	-

ERC	EAC-RoHS
LIIL	Approval ID: RU D-DE.HB35.B.00387

CSAus Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	24 V	4 A	-	-



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27060312
	ECLASS-15.0	27060312
ET	ТМ	
	ETIM 9.0	EC001855
UN	ISPSC	

31251500



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-l
hina 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.
U REACH SVHC	
U REACH SVHC REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
- · · - · · · · · · · ·	Diboron trioxide(CAS: 1303-86-2) Lead monoxide (lead oxide)(CAS: 1317-36-8)
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REACH candidate substance (CAS No.)	Lead monoxide (lead oxide)(CAS: 1317-36-8)

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