

Connecting cables for valves, plug pattern ZC, metric screw

Type codes

	NEBV	-	Z4	WA	2	L	-	R	-	E	-	5	-	N	-	M8	G	3	-	S1
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Function	
NEBV	Connecting cables for valves

Connection technology on left, field device side	
Z4	Socket, plug pattern ZC, metric screw

Cable outlet left	
WA	Angled 45°

Number of pins/wires, left	
2	2-pin

Display	
-	None
L	Signal status LED

Circuitry	
-	None
P	Integrated protective circuit
R	Holding current reduction with integrated protective circuit

Cable characteristic	
E	Suitable for energy chains

Cable length	
0,2	0.2 m
0,5	0.5 m
2,5	2.5 m
5	5 m
10	10 m

Cable designation	
N	Without inscription label holder

Connection technology on right, controller side	
LE	Open end
M8	Plug M8x1, A-coded, EN 61076-2-104
Z1	Plug, plug pattern ZB, self-tapping screw

Cable outlet right	
-	Open end
G	Straight
W	Angled

Number of pins/wires, right	
2	2-pin
3	3-pin

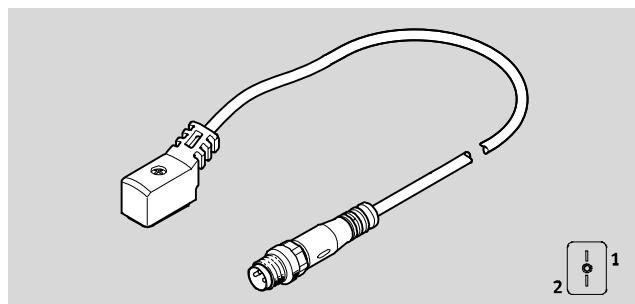
Degree of protection for electrics	
S1	IP65

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Technical data

Connecting cable NEBV-Z4WA2

- Connecting cable
- Pre-assembled at both ends
- For connecting valves



General technical data			
Electrical connection 1			
Function	Field device side		
Connection type	Socket		
Cable outlet	Angled		
Design	Square		
Connection technology	Plug pattern ZC, metric screw		
Number of pins/wires	2		
Assigned pins/wires	2		
Type of mounting	On solenoid valve via central screw M2		
Electrical connection 2			
Function	Controller side		
Connection type	Cable	Plug	Plug
Cable outlet	–	Straight	Angled
Design	–	Round	Square
Connection technology	Open end	M8x1, A-coded, to EN 61076-2-104	Plug pattern ZB, self-tapping screw
Number of pins/wires	2	3	2
Assigned pins/wires	2	2	2
Type of mounting	–	–	On solenoid valve via self-tapping screw

Technical data – Electrical		
Nominal operating voltage	[V DC]	24
Operating voltage range	[V DC]	20.4 ... 26.4
Surge resistance	[kV]	2.4
Degree of contamination		3
Connection frequency		50
Protection against polarity reversal		Bipolar
Protective earth connection		Not present

Technical data – Cable		
Cable composition	[mm ²]	2 x 0.14
Cable diameter	[mm]	2.9
Cable diameter tolerance	[%]	±0.1
Conductor nominal cross section	[mm ²]	0.14
Cable characteristic		Suitable for use with energy chains
Cable test conditions		Test conditions on request
Bending radius, flexible cable installation	[mm]	≥29
Cable identification		Without inscription label holder

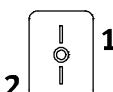
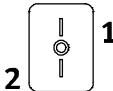
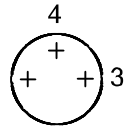
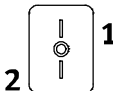
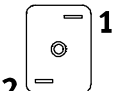
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Technical data

Materials			
Electrical connection 2	Connection technology		
	Open end	M8x1, A-coded, to EN 61076-2-104	Plug pattern ZB, self-tapping screw
Housing	TPE-U (PUR)	TPE-U (PUR)	TPE-U (PUR)
Housing colour	Black	Black	Black
Union nut	–	Nickel-plated brass	–
Insulating sheath	PP	PP	PP
Screws	Stainless steel	Stainless steel	Stainless steel
Pin contacts	Tin-plated copper alloy	Tin-plated copper alloy	Tin-plated copper alloy
	–	Gold-plated brass	–
Cable sheath	TPE-U (PUR)	TPE-U (PUR)	TPE-U (PUR)
Cable sheath colour	Grey	Grey	Grey
Note on materials	RoHS compliant	RoHS compliant	RoHS compliant

Operating and environmental conditions		
Additional functions	With holding current reduction	Without holding current reduction
Ambient temperature [°C]	–10 ... +50	–10 ... +50
CE marking (see declaration of conformity)	To EU EMC Directive ¹⁾	–
Degree of protection	IP65	IP65
Note on degree of protection	In mounted state	In mounted state

- 1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → Certificates.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Circuitry (socket/plug view)				
Electrical connection 1	Pin	Wire colour ¹⁾	Pin	Electrical connection 2
Electrical connection 2, connection technology open end				
	1	BK	–	Open end
	2	BK	–	
Electrical connection 2, connection technology M8x1 A-coded to EN 61076-2-104				
	1	BK	1	
	2	BK	3	
Electrical connection 2, connection technology plug pattern ZB, self-tapping screw				
	1	BK	1	
	2	BK	2	

1) To IEC 757

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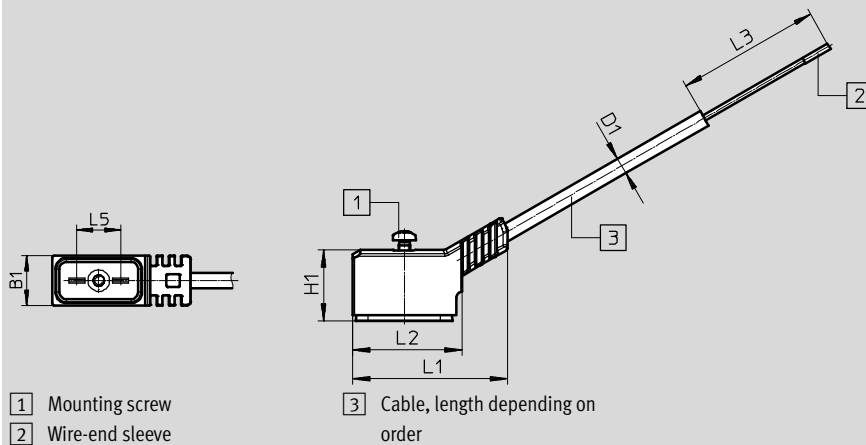
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Technical data

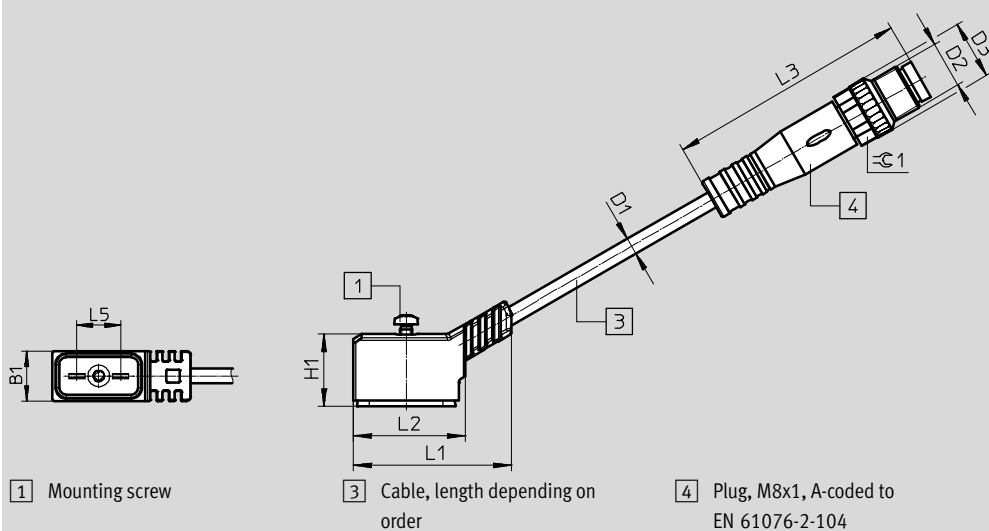
Dimensions

Download CAD data → www.festo.com

Electrical connection 2, connection technology open end



Electrical connection 2, connection technology M8x1 A-coded to EN 61076-2-104



Type	B1	D1 Ø	D2	D3 Ø	H1	L1	L2	L3	L5	≈1
NEBV-Z4WA2L-...-LE2-S1	9.7	2.9	–	–	12.4	26.9	19	50	8.4	–
NEBV-Z4WA2L-...-M8G3-S1	9.7	2.9	M8x1	10	12.4	26.9	19	41.1	8.4	9

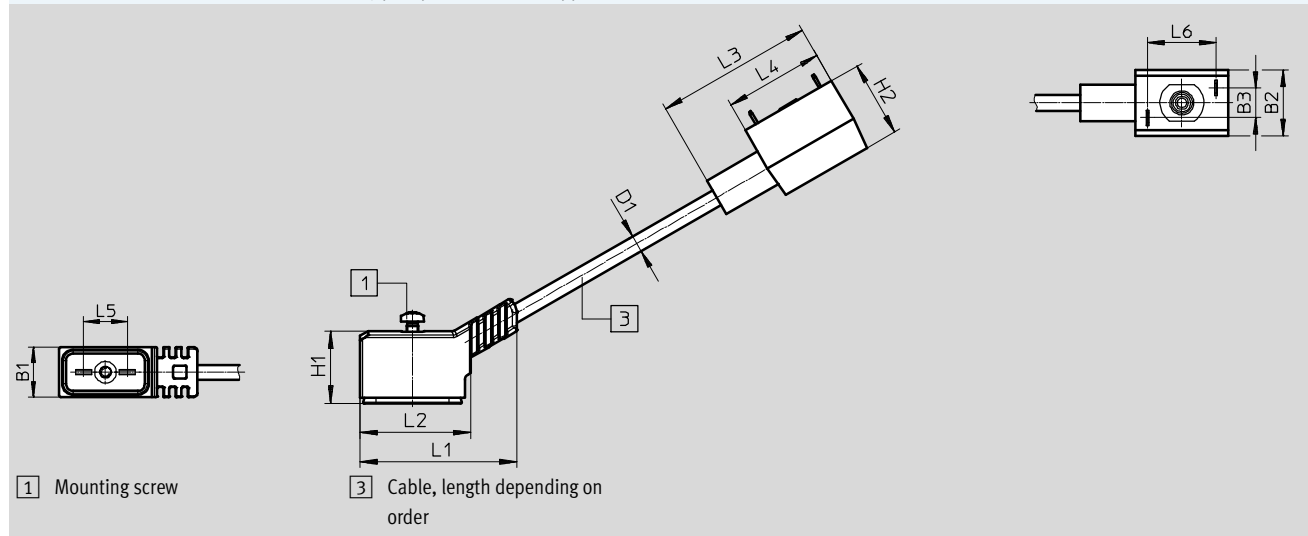
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Technical data

Dimensions

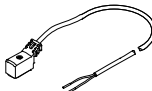
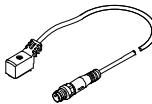
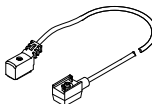
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Electrical connection 2, connection technology plug pattern ZB, self-tapping screw



Type	B1	B2	B3	D1 Ø	H1	H2	L1	L2	L3	L4	L5	L6
NEBV-Z4WA2...-Z1W2-S1	9.7	9.7	5.4	2.9	12.4	13	26.9	19	27	17	8.4	12.5

Ordering data

	Additional functions	Signal status display	Cable length [m]	Weight [g]	Part No.	Type
Electrical connection 2, connection technology open end						
	Protective circuit	Yellow LED	2.5	50	8047671	NEBV-Z4WA2L-P-E-2.5-N-LE2-S1
			5	90	8047672	NEBV-Z4WA2L-P-E-5-N-LE2-S1
			10	170	8047670	NEBV-Z4WA2L-P-E-10-N-LE2-S1
	Holding current reduction, protective circuit	Yellow LED	2.5	50	8047679	NEBV-Z4WA2L-R-E-2.5-N-LE2-S1
			5	90	8047680	NEBV-Z4WA2L-R-E-5-N-LE2-S1
			10	170	8047678	NEBV-Z4WA2L-R-E-10-N-LE2-S1
Electrical connection 2, connection technology M8x1 A-coded to EN 61076-2-104						
	Protective circuit	Yellow LED	0.5	18	8047673	NEBV-Z4WA2L-P-E-0.5-N-M8G3-S1
			2.5	54	8047674	NEBV-Z4WA2L-P-E-2.5-N-M8G3-S1
	Holding current reduction, protective circuit	Yellow LED	0.5	18	8047683	NEBV-Z4WA2L-R-E-0.5-N-M8G3-S1
			2.5	54	8047684	NEBV-Z4WA2L-R-E-2.5-N-M8G3-S1
Electrical connection 2, connection technology plug pattern ZB, self-tapping screw						
	Operating voltage range 0 ... 30 V DC	–	0.2	18	8047681	NEBV-Z4WA2-E-0.2-N-Z1W2-S1
	Holding current reduction, protective circuit	Yellow LED	0.2	18	8047682	NEBV-Z4WA2L-R-E-0.2-N-Z1W2-S1

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Ordering data – Modular product system

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Ordering table		Condi- tions	Code	Entry code
M	Module no.	8003577		
	Connecting cable	Connecting cables for valves	NEBV	NEBV
	Connection technology on left, field device side	Socket, plug pattern ZC, metric screw	-Z4	-Z4
	Cable outlet, left	Angled 45°	WA	WA
	Number of pins/wires, left	2-pin	2	2
O	Display	None		
		Signal status LED	L	
	Circuitry	None	1	
		Integrated protective circuit	2	
		Holding current reduction with integrated protective circuit	-R	
M	Cable characteristic	Suitable for use with energy chains	-E	-E
	Line length [m]	0.2	1	-0,2
		0.5	3	-0,5
		2.5	2	-2,5
		5	4	-5
		10	4	-10
	Cable identification	Without inscription label holder	-N	-N
	Connection technology on right, control side	Open end	-LE	
		Plug connector M8x1, A-coded, EN 61076-2-104	-M8	
		Plug, plug pattern ZB, self-tapping screw	-Z1	
O	Cable outlet right	None		
		Straight	G	
		Angled	W	
M	Number of pins/wires, right	2-pin	2	
		3-pin	3	
	Degree of protection for electrics	IP65	-S1	-S1

- 1** -0,2 Only with connection technology on right Z1
2 -P, -2,5 Not with connection technology on right Z1
3 -0,5, 3 Only with connection technology on right M8
4 -5, -10 Only with connection technology on right LE

- M** Mandatory data
O Options

Transfer order code

8003577 **NEBV** - **Z4** **WA** **2** - - **E** - - **N** - - **S1**