

## Type codes

001	Series
NEBV	Connecting cable for valves

002	Product version
	Standard
C	Easy-to-clean design

003	Connection technology left, field device side
A1	Socket type A, EN 175301-803
B2	Socket type B, industry standard, 11 mm
C1S	Socket type C, narrow design
H1	Socket connection pattern H
M8	Socket M8x1 A-coded, EN 61076-2-104
M12	Socket M12x1 A-coded, EN 61076-2-101
Z3	Socket connection pattern ZC, self-tapping screw
Z4	Socket connection pattern ZC, metric screw
S1	Sub-D socket
S7	Sub-D HD socket
Q7	Port pattern Q7 socket
HS	Socket connection pattern S
HP	Socket connection pattern HP

004	Cable outlet left
	None
G	Straight
W	Angled
WA	Angled 45°

005	Number of pins/wires on the left
2	2
3	3
4	4
8	8
9	9
15	15
25	25
37	37
44	44

006	Display
	None
F	LED signal status, AC
L	LED signal status, DC
N	LED switching state, NPN
P	LED switching state, PNP
U	LED, UC

007	Additional socket functions
	None
HL	Hood for MPA-L
HM	Hood for MPA-S
HS	With seal

008	Circuitry
	None
P	Protective circuit
R	Holding current reduction with integrated protective circuit

009	Cable characteristic
P	Basic
K	Standard
E	Suitable for energy chains
F	Food-safe to standard

010	Cable design
	Standard
D	Double cable
M	Alternative material
N	Leads

011	Cable length [m]
0.1	0.1
0.2	0.2
0.3	0.3
0.5	0.5
0.6	0.6
1	1
2	2
2.5	2.5
3	3
5	5
10	10

012	Cable identification
	With label holder
N	Without label holder

013	Connection technology right, controller side
LE	Open end
M8	Plug M8x1 A-coded, EN 61076-2-104
M12	Plug M12x1 A-coded, EN 61076-2-101
Z1	Port pattern ZB plug, self-tapping screw

014	Plug
	None
G	Straight
W	Angled

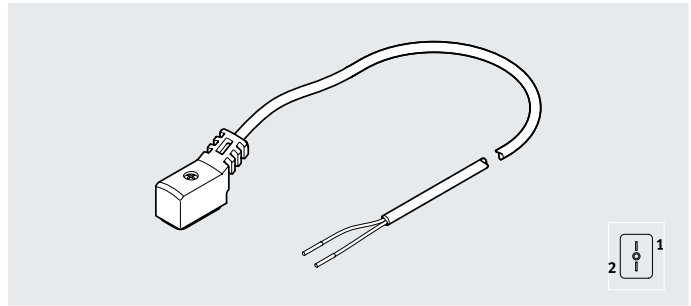
015	Number of pins/wires on the right
2	2
3	3
4	4
5	5
10	10
15	15
25	25
26	26
27	27
36	36
37	37
39	39
44	44

016	Degree of protection, electrical system
	Standard
S6	IP40
S1	IP65
S9	IP65/IP67
S10	IP65/IP67/IP69K

## Datasheet

### Connecting cable NEBV-Z3WA2L

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



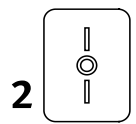
General technical data	
<b>Electrical connection 1</b>	
Function	Field device side
Connection type	Socket
Cable outlet	Angled
Design type	Rectangular
Connection technology	Plug pattern ZC, self-tapping screw
Number of pins/wires	2
Assigned pins/wires	2
Type of mounting	On solenoid valve via self-tapping screw
Signal status indication	Yellow LED
Additional functions	Holding current reduction, protective circuit
<b>Electrical connection 2</b>	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of pins/wires	2
Assigned pins/wires	2
<b>Technical data – Electrics</b>	
Nominal operating voltage [V DC]	24
Operating voltage range [V DC]	20.4 ... 26.4
Surge resistance [kV]	2.4
Pollution degree	3
Contact durability	50
Reverse polarity protection	Bipolar
Protective earth connection	Not provided
<b>Technical data – Cable</b>	
Cable composition [mm <sup>2</sup> ]	2x 0.14
Cable diameter [mm]	2.9
Cable diameter tolerance [%]	±0.1
Nominal conductor cross section [mm <sup>2</sup> ]	0.14
Cable characteristic	Suitable for energy chains
Cable test conditions	Test conditions on request
Bending radius, flexible cable installation [mm]	≥29
Cable designation	Without inscription label holder
<b>ATEX</b>	
ATEX category gas	II 3G
Ex-ignition protection type gas	Ex ec IIC Gc X
Explosion protection certification outside the EU	EPL Gc (GB)

## Datasheet

Materials	
Housing	TPE-U(PU)
Housing colour	Black
Insulating sheath	PP
Screws	Steel
Pin contacts	Tin-plated copper alloy
Cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Note on materials	RoHS-compliant
PWIS conformity	VDMA24364-B2-L

Operating and environmental conditions	
Ambient temperature [°C]	-10 ... +50
CE marking (see declaration of conformity) <sup>2)</sup>	To EU EMC Directive <sup>1)</sup>
	To EU RoHS Directive
UKCA marking (see declaration of conformity) <sup>2)</sup>	To UK instructions for EMC <sup>1)</sup>
	To UK RoHS instructions
Degree of protection	IP65
Note on degree of protection	In assembled state

- 1) For information about the area of use, see the EC declaration of conformity at: [www.festo.com/catalogue/NEBV](http://www.festo.com/catalogue/NEBV) → Support/Downloads.  
If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.
- 2) Additional information: [www.festo.com/catalogue/NEBV](http://www.festo.com/catalogue/NEBV) → Support/Downloads.

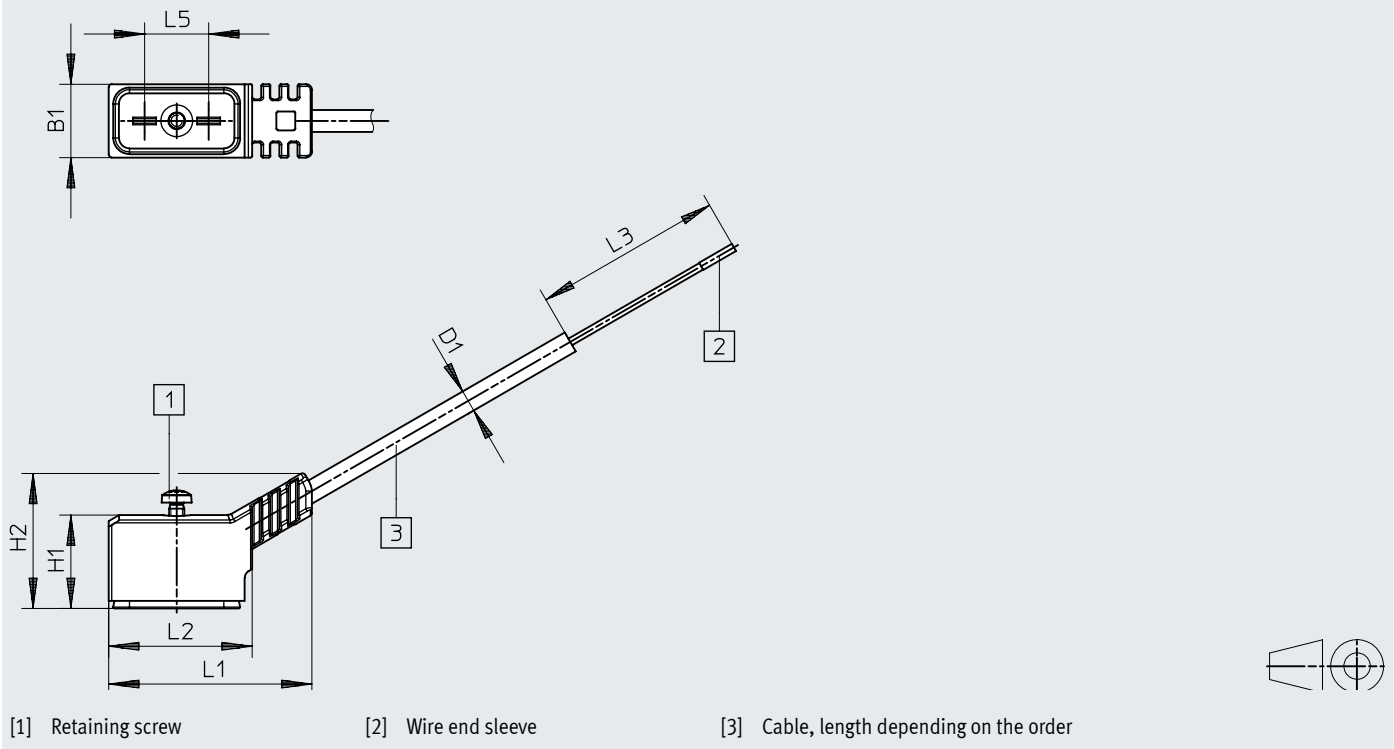
Circuitry (socket/plug view)				
Electrical connection 1	Pin	Wire colour <sup>1)</sup>	Pin	Electrical connection 2
	1	BK	-	Open end
	2	BK	-	

1) To IEC 757

## Datasheet

### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



Type	B1	D1 ∅	H1	H2	L1	L2	L3	L5
NEBV-Z3WA2L	9.7	2.9	12	17.5	26.9	19	50	8.4

### Ordering data

Electrical connection	Cable length [m]	Weight [g]	Part no.	Type
Angled socket, plug pattern ZC, self-tapping screw	2.5	50	<b>8047676</b>	<b>NEBV-Z3WA2L-R-E-2.5-N-LE2-S1</b>
	5	90	<b>8047677</b>	<b>NEBV-Z3WA2L-R-E-5-N-LE2-S1</b>
	10	170	<b>8047675</b>	<b>NEBV-Z3WA2L-R-E-10-N-LE2-S1</b>

## Ordering data – Modular product system

Ordering table		Conditions	Code	Enter code
Module no.	<b>8003577</b>			
Connecting cable	Connecting cables for valves		<b>NEBV</b>	NEBV
Connection technology on the left, field device side	Socket, plug pattern ZC, self-tapping screw		<b>-Z3</b>	-Z3
Cable outlet on the left	Angled 45°		<b>WA</b>	WA
Number of pins/wires on the left	2-pin		<b>2</b>	2
Display	Signal status LED		<b>L</b>	L
Circuitry	Holding current reduction with integrated protective circuit		<b>-R</b>	-R
Cable characteristic	Suitable for energy chains		<b>-E</b>	-E
Cable length	[m] 2.5		<b>-2.5</b>	
	[m] 5		<b>-5</b>	
	[m] 10		<b>-10</b>	
Cable designation	Without inscription label holder		<b>-N</b>	-N
Connection technology on the right, controller side	Open end		<b>-LE</b>	-LE
Number of pins/wires on the right	2-pin		<b>2</b>	2
Degree of protection, electrical system	IP65		<b>-S1</b>	-S1