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	

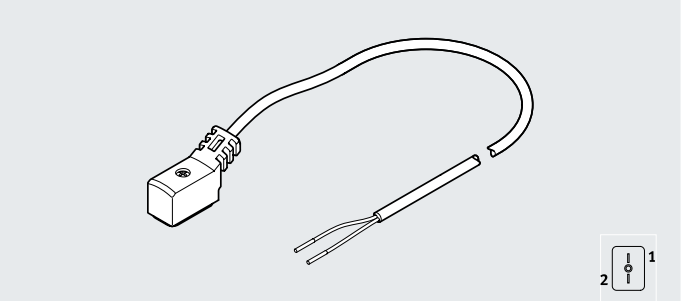
015	Number of pins/wires on the right	
2	2	
3	3	
4	4	
5	5	
10	10	
15	15	
25	25	
26	26	
27	27	
36	36	
37	37	
39	39	
44	44	

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	
Electrical connection 1	
Function	Field device side
Connection type	Socket
Cable outlet	Angled
Design	Square
Connection technology	Plug pattern ZC, self-tapping screw
Number of pins/cores	2
Assigned pins/cores	2
Type of mounting	On solenoid valve via self-tapping screw
Signal status indication	Yellow LED
Additional functions	Holding current reduction, protective circuit
Electrical connection 2	
Function	Control side
Connection type	Cable
Connection technology	Open end
Number of pins/cores	2
Assigned pins/cores	2

Technical data – Electrical components		
Nominal operating voltage	[V DC]	24
Operating voltage range	[V DC]	20.4 ... 26.4
Surge resistance	[kV]	2.4
Pollution degree		3
Note on the contamination level		In mounted state
Contact durability		50
Reverse polarity protection		Bipolar
Protective earth connection		Not provided

Technical data – Cable		
Cable structure	[mm²]	2x 0.14
Cable diameter	[mm]	2.9
Cable diameter tolerance	[%]	±0.1
Nominal conductor cross section	[mm²]	0.14
Cable characteristic		Suitable for energy chains
Test conditions, cable		Test conditions on request
Bending radius, flexible cable installation	[mm]	≥29
Cable identification		Without inscription label holder

ATEX	
ATEX category for gas	II 3G
Type of (ignition) protection for gas	Ex ec IIC Gc X
Explosion protection certification outside the EU	EPL Gc (GB)

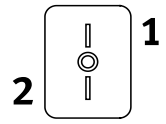
Datasheet

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
LABS (PWIS) conformity	VDMA24364-B2-L

Operating and environmental conditions		
Ambient temperature	[°C]	–10 ... +50
CE marking (see declaration of conformity)[2]		To EU EMC Directive[1]
		To EU RoHS Directive
UKCA marking (see declaration of conformity)[2]		To UK EMC regulations[1]
		To UK RoHS regulations
Degree of protection		IP65
Note on degree of protection		In mounted state

1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/NEBV d 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) More information www.festo.com/catalogue/NEBV ➔ Support/Downloads.

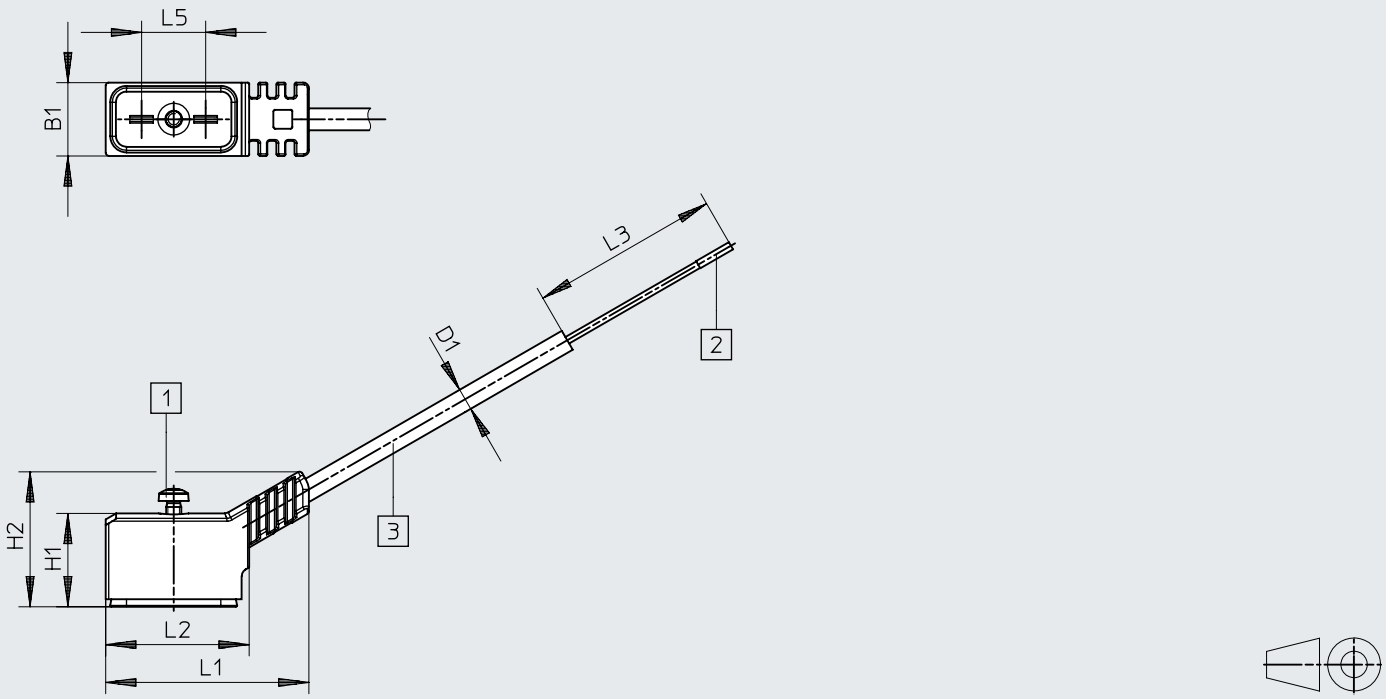
Wiring (socket/plug view)

Electrical connection 1	Pin	Wire colour[1]	Pin	Electrical connection 2
	1	BK	–	Open end
	2	BK	–	

1) To IEC 757

Datasheet

Dimensions Download CAD data ➔ www.festo.com



[1] Retaining screw [2] Wire ferrule [3] Cable, length depending on the order

Type	B1	D1 ø	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	**8047676**	**NEBV-Z3WA2L-RE-2.5-N-LE2-S1**
	5	90	**8047677**	**NEBV-Z3WA2L-R-E-5-N-LE2-S1**
	10	170	**8047675**	**NEBV-Z3WA2L-R-E-10-N-LE2-S1**

Ordering data – Modular product system

Ordering table

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