

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

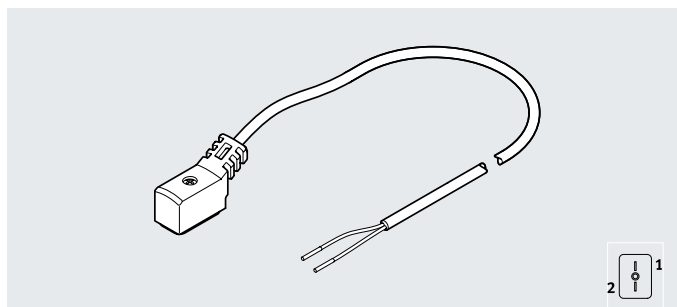
015	Number of pins/wires on the right
2	2
3	3
4	4
5	5
10	10
15	15
25	25
26	26
27	27
36	36
37	37
39	39
44	44

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	[mm ²]	2x 0.14
Cable diameter	[mm]	2.9
Cable diameter tolerance	[%]	±0.1
Nominal conductor cross section	[mm ²]	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

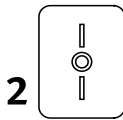
Materials	
Housing	TPE-U(PU)
Housing colour	Black
Insulating sheath	PP
Screws	Steel
Pin contacts	Tin-plated copper alloy
Cable sheath	TPE-U(PUR)
Cable sheath colour	Grey
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L

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.

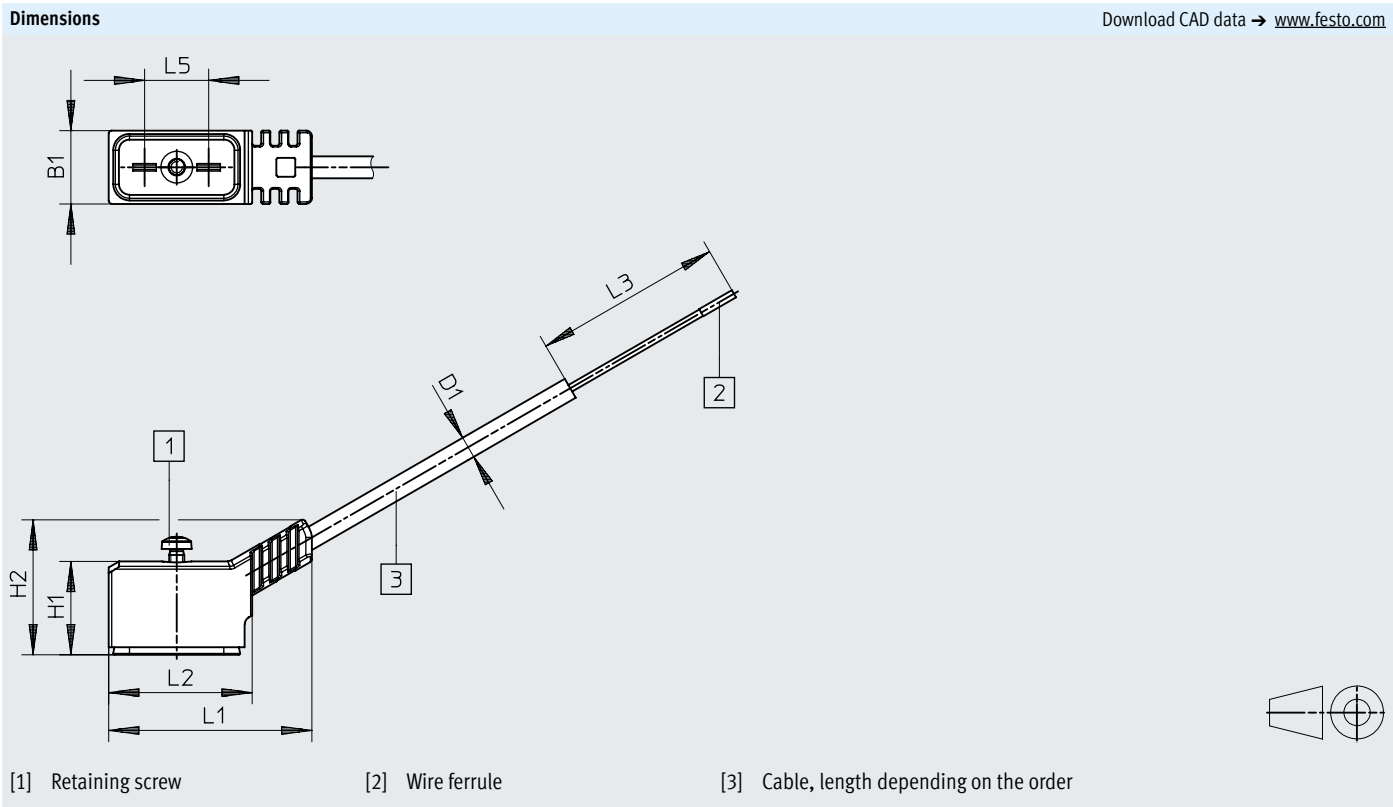
If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

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



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	Weight	Part no.	Type	
	[m]	[g]			
	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