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	
Z4	Socket connection pattern ZC, metric screw	
Z3	Socket connection pattern ZC, self-tapping screw	
M8	Socket M8x1 A-coded, EN 61076-2-104	
M12	Socket M12x1 A-coded, EN 61076-2-101	
S1	Sub-D socket	
S7	Sub-D HD socket	
H1	Socket connection pattern H	
Q7	Port pattern Q7 socket	
HS	Socket connection pattern S	

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	
M	Alternative material	
N	Leads	
D	Double cable	

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	
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	
LE	Open end	

014	Plug	
	None	
G	Straight	
W	Angled	

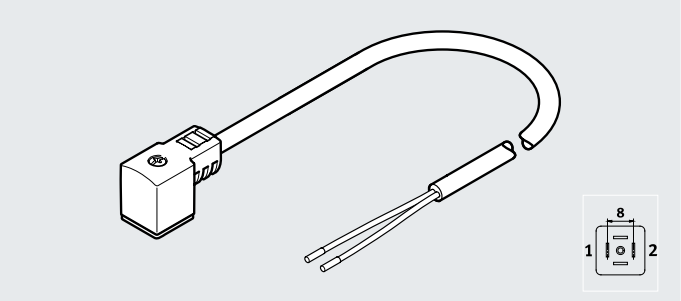
015	Number of pins/wires on the right	
2	2	
3	3	
4	4	
5	5	
10	10	
15	15	
25	25	
26	26	
27	27	
36	36	
37	37	
39	39	
44	44	

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

Datasheet

Connecting cable NEBV-C1SW2

- Connecting cable
- Pre-assembled at one end
- For connecting valves
- Cable lengths 0.5 ... 30 m



General technical data	
Cable designation	Without inscription label holder

Technical data – Electrical connection 1	
Function	Field device side
Connection type	Socket, narrow
Cable outlet	Angled
Note on cable outlet	180° rotatable
Design	Rectangular
Connection technology	Plug pattern type C to EN 175301 803
Number of pins/wires	4
Assigned pins/wires	2
Type of mounting	On solenoid valve with M2.5 central screw
Signal status indication	Yellow LED
Additional functions	Protective circuit

Technical data – Electrical connection 2	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of pins/wires	2
Assigned pins/wires	2

Technical data – Electrics		
Nominal operating voltage	[V DC]	24
Operating voltage range	[V DC]	20.4 ... 26.4
Surge resistance	[kV]	2.4
Acceptable current load at 40°C	[A]	6
Pollution degree		3
Contact durability		50
Reverse polarity protection		Bipolar
Protective earth connection		Not provided

Datasheet

Technical data – Cable		
Cable diameter	[mm]	5.2
Cable diameter tolerance	[mm]	±0.1
Cable composition	[mm²]	2x0.75
Nominal conductor cross section	[mm²]	0.75
Cable characteristic		Standard
Bending radius, flexible cable installation	[mm]	≥52
Cable test conditions		Test conditions on request

Materials	
Housing	TPE-U(PU)
Housing colour	Black
Screws	Stainless steel
Seals	HNBR
Pin contacts	Tin-plated copper alloy
Cable sheath	PVC
Cable sheath colour	Grey
Insulating sheath	PVC
Note on materials	RoHS-compliant

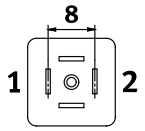
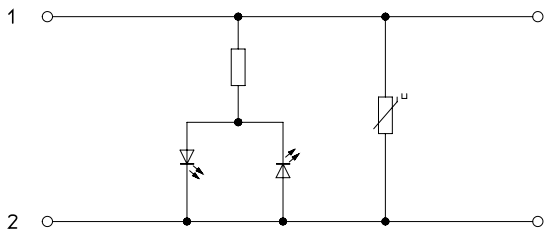
Operating and environmental conditions		
Ambient temperature	[°C]	–20 … +70
Ambient temperature with flexible cable installation	[°C]	–5 … +70
Degree of protection		IP65
		IP67
Note on degree of protection		In assembled state
Corrosion resistance class CRC[1)]		3
CE marking (see declaration of conformity)[2)]		To EU RoHS Directive

1) Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

2) Additional information: www.festo.com/catalogue/... → Support/Downloads.

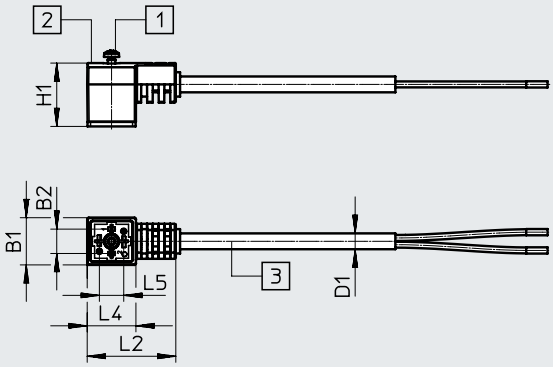
Datasheet

Circuitry (socket/plug view)

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

1) To IEC 757

Dimensions Download CAD data ➔ www.festo.com



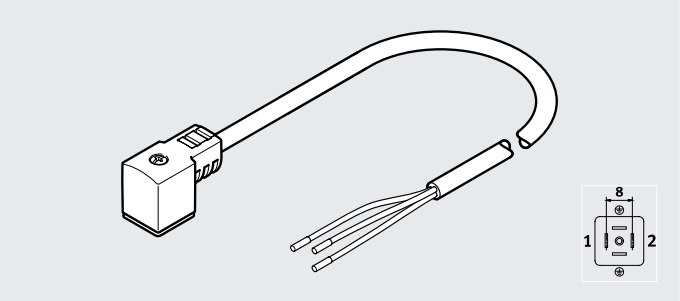
[1] Retaining screw M3
[2] Signal status indication
[3] Cable, length 0.5 ... 30 m depending on the order

Type	B1	B2	D1	H1	L2	L4	L5
NEBV-C1SW2L-...-S9	15.5	8	5.2	20.8	29	16	8

Datasheet

Connecting cable NEBV-C1SW3

- Connecting cable
- Pre-assembled at one end
- For connecting valves
- Cable lengths 0.5 ... 30 m



General technical data	
Cable designation	Without inscription label holder
Technical data – Electrical connection 1	
Function	Field device side
Connection type	Socket, narrow
Cable outlet	Angled
Note on cable outlet	180° rotatable
Design	Rectangular
Connection technology	Plug pattern type C to EN 175301 803
Number of pins/wires	4
Assigned pins/wires	4
Type of mounting	On solenoid valve with M2.5 central screw
Technical data – Electrical connection 2	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of pins/wires	3
Assigned pins/wires	3

Technical data – Electrics		
Operating voltage range	[V DC]	0 ... 230
	[V AC]	0 ... 230
Surge resistance	[kV]	4
Acceptable current load at 40°C	[A]	6
Pollution degree		3
Contact durability		50
Reverse polarity protection		Bipolar
Protective earth connection		Available

Datasheet

Technical data – Cable		
Cable diameter	[mm]	5.2
Cable diameter tolerance	[mm]	±0.1
Cable composition	[mm²]	3x0.5
Nominal conductor cross section	[mm²]	0.5
Cable characteristic		Standard
Bending radius, flexible cable installation	[mm]	≥52
Cable test conditions		Test conditions on request

Materials	
Housing	TPE-U(PU)
Housing colour	Black
Screws	Stainless steel
Seals	HNBR
Pin contacts	Tin-plated copper alloy
Cable sheath	PVC
Cable sheath colour	Grey
Insulating sheath	PVC
Note on materials	RoHS-compliant

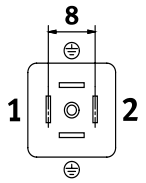
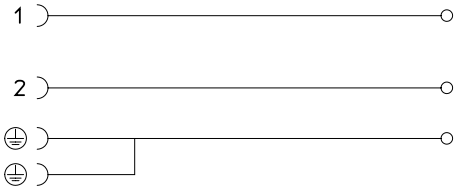
Operating and environmental conditions		
Ambient temperature	[°C]	–20 … +70
Ambient temperature with flexible cable installation	[°C]	–5 … +70
Degree of protection		IP65
		IP67
Note on degree of protection		In assembled state
Corrosion resistance class CRC[1)]		3
CE marking (see declaration of conformity)[2)]		To EU Low Voltage Directive
		To EU RoHS Directive

1) Corrosion resistance class CRC 3 to Festo standard FN 940070
High corrosion stress. Outdoor exposure under moderate corrosive conditions. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

2) Additional information: www.festo.com/catalogue/... → Support/Downloads.

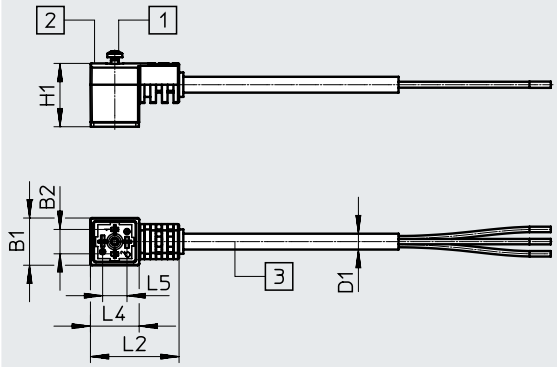
Datasheet

Circuitry (socket/plug view)

Electrical connection 1	Pin	Circuitry	Wire colour[1)]	Electrical connection 2
	1		BK	Open end
	2		BK	Open end
	GND		PE	Open end
	GND			

1) To IEC 757

Dimensions Download CAD data ➔ www.festo.com



[1] Retaining screw M2.5
[2] LED display field depending on order
[3] Cable, length 0.5 ... 30 m depending on the order

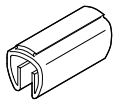
Type	B1	B2	D1	H1	L2	L4	L5
NEBV-C1SW3-...-S9	15.5	8	5.2	20.8	29	16	8

Ordering data

Ordering data

Operating voltage		Cable length [m]	Weight [g]	Part no.	Type
Socket type C, narrow, 2-pin – open cable end, 2-wire					
24 V DC	• Signal status indication • Protective circuit	2.5	120	**8032623**	**NEBV-C1SW2L-P-K-2.5-N-LE2-S9**
		5	230	**8032626**	**NEBV-C1SW2L-P-K-5-N-LE2-S9**
		10	440	**8032627**	**NEBV-C1SW2L-P-K-10-N-LE2-S9**
Socket type C, narrow, 4-pin – open cable end, 3-wire					
0 ... 230 V AC/DC	–	2.5	125	**8032628**	**NEBV-C1SW3-K-2.5-N-LE3-S9**
		5	235	**8032629**	**NEBV-C1SW3-K-5-N-LE3-S9**

Ordering data – Accessories

			Part no.	Type
	Inscription labels for attaching to a cable with diameter 5 ... 8 mm	11x20 mm	**33361**	**KM-BZ**

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 type C, narrow design		**-C1S**		-C1S
Cable outlet on the left	Angled		**W**		W
Number of pins/wires on the left	2-pin		**2**		
	3-pin		**3**		
Display	None	[2]			
	Signal status LED	[1]	**L**		
Circuitry	None	[2]			
	Integrated protective circuit	[1]	**-P**		
Cable characteristic	Standard		**-K**		-K
Cable length [m]	0.5 ... 30		**-...**		
Cable designation	Without inscription label holder		**-N**		-N
	Open end		**-LE**		-LE
Number of pins/wires on the right	2-pin	[1]	**2**		
	3-pin	[2]	**3**		
Degree of protection, electrical system	IP65/IP67		**-S9**		-S9

[1] L, -P, 2 Only with number of pins/wires, left = 2-pin
[2] 3 Only with number of pins/wires, left = 3-pin