Connecting cables for valves, socket type C, narrow

Type codes
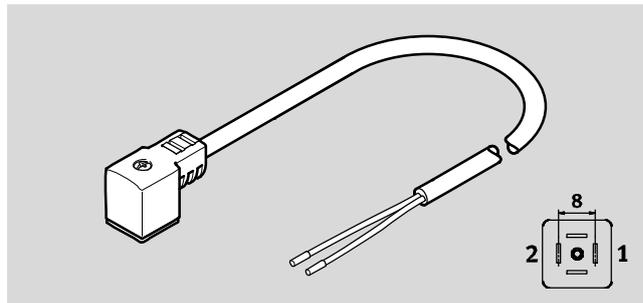
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NEBV – C1S W – – K – – N – LE – S9

Function	
NEBV	Connecting cables for valves

Connection technology on the left, field device side	
C1S	Socket type C, narrow design

Cable outlet on the left	
W	Angled

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

Indicator	
–	No indicator
L	LED

Circuitry	
–	No circuitry
P	Protective circuit

Cable characteristic	
K	Standard

Cable length	
0.5 … 30	0.5 … 30 m

Cable identification	
N	Without label holder

Connection technology on the right, controller side	
LE	Open end

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

Degree of protection, electrical system	
S9	IP65/P67

Connecting cables for valves, socket type C, narrow, 2-pin

Technical data

Connecting cable NEBV-C1SW2

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

General technical data	
Cable identification	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 type	Square
Connection technology	Connection pattern type C, to EN 175301-803
Number of pins/wires	4
Assigned pins/wires	2
Type of mounting	On solenoid valve via M2.5 central screw
Signal status indicator	Yellow LED
Additional functions	Protective circuit

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

Technical data – Electrical		
Nominal operating voltage	[V DC]	24
Operating voltage range	[V DC]	20.4 … 26.4
Surge resistance	[kV]	2.4
Current rating at 40 °C	[A]	6
Contamination level		3
Contact durability		50
Reverse polarity protection		Bipolar
Protective earth connection		Not present

Connecting cables for valves, socket type C, narrow, 2-pin

Technical data

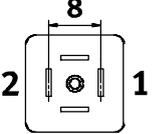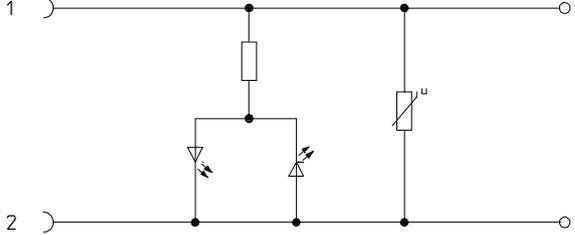| Technical data – Cables		
Cable diameter	[mm]	5.2
Cable diameter tolerance	[mm]	±0.1
Cable composition	[mm^2]	2x0.75
Nominal conductor cross section	[mm^2]	0.75
Cable characteristic		Standard
Bending radius, flexible cable installation	[mm]	≥52
Cable test conditions		Test conditions on request

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

1) Corrosion resistance class CRC 3 to Festo standard FN 940070
    High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.
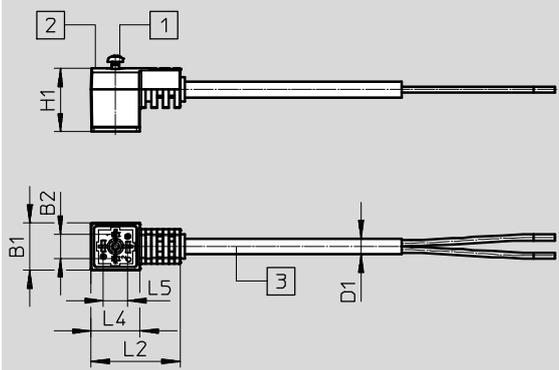
Connecting cables for valves, socket type C, narrow, 2-pin

Technical data

FESTO

Circuitry (view of socket/plug connector)

Electrical connection 1	Pin	Circuitry	Wire colour[1]	Electrical connection 2
8 **2** **1**	1		BK	Open end
	2		BK	Open end

1) To IEC 757

Dimensions

Download CAD data ➔ **www.festo.com**

1 M3 mounting screw
2 Signal status indicator
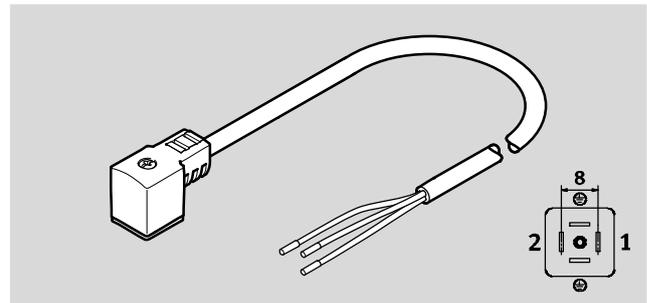3 Cable, length 0.5 ... 30 m
depending on order

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

Connecting cables for valves, socket type C, narrow, 4-pin

Technical data

Connecting cable NEBV-C1SW3

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

General technical data	
Cable identification	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 type	Square
Connection technology	Connection pattern type C, to EN 175301-803
Number of pins/wires	4
Assigned pins/wires	4
Type of mounting	On solenoid valve via M2.5 central screw

Technical data – Electrical connection 2	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of poles/wires	3
Assigned pins/wires	3

Technical data – Electrical		
Operating voltage range	[V DC]	0 ... 230
	[V AC]	0 ... 230
Surge resistance	[kV]	4
Current rating at 40 °C	[A]	6
Contamination level		3
Contact durability		50
Reverse polarity protection		Bipolar
Protective earth connection		Present

Connecting cables for valves, socket type C, narrow, 4-pin

Technical data

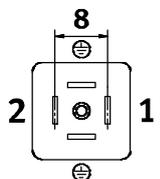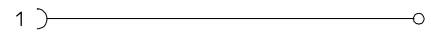| Technical data – Cables		
Cable diameter	[mm]	5.2
Cable diameter tolerance	[mm]	±0.1
Cable composition	[mm^2]	3x0.5
Nominal conductor cross section	[mm^2]	0.5
Cable characteristic		Standard
Bending radius, flexible cable installation	[mm]	≥52
Cable test conditions		Test conditions on request

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		
Type		NEBV-C1SW3
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

1) Corrosion resistance class CRC 3 to Festo standard FN 940070
   High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional requirements for the surface and which are in direct contact with a normal industrial environment.
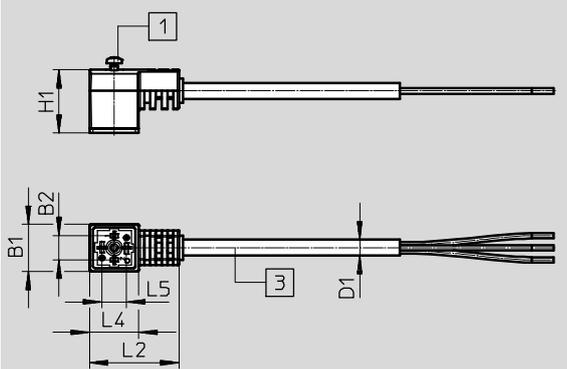2) Additional information www.festo.com/sp ➔ Certificates.

Connecting cables for valves, socket type C, narrow, 4-pin

Technical data

Circuitry (view of socket/plug connector)

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

1) To IEC 757

Dimensions

Download CAD data ➔ **www.festo.com**

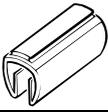1 M2.5 mounting screw
3 Cable, length 0.5 … 30 m
  depending on order

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

Connecting cables for valves, socket type C, narrow

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 indicator	2.5	120	**8032623**	**NEBV-C1SW2L-P-K-2.5-N-LE2-S9**
	• Protective circuit	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 placing on a cable with diameter 5 ... 8 mm	11x20 mm	**33361**	**KM-BZ**

 Subject to change – 2019/01

Ordering table

			Condi-tions	Code		Entry code
M 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, left	2-pin			**2**		
	3-pin			**3**		
O Indicator	None		2			
	Signal status LED		1	**L**		
Circuitry	None		2			
	Integrated protective circuit		1	**-P**		
M Cable characteristic	Standard			**-K**		-K
Cable length [m]	0.5 ... 30			**-...**		
Cable identification	Without inscription label holder			**-N**		-N
	Open end			**-LE**		-LE
Number of pins/wires, 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

M	Mandatory data
O	Options

Transfer order code

8003577	NEBV	–	C1S	W			–		–	K	–		–	N	–	LE		–	S9