

Connecting cables for valves, socket type B, industry standard

Type codes – Connecting cable with PUR cable sheath

		NEBV	-	B2	W	3	F	-	P	-	K	-	0.6	-	N	-	LE		3																		
Function																																					
NEBV	Connecting cables for valves																																				
Connection technology on left, field device side																																					
B2	Socket type B to industry standard, 11 mm																																				
Cable outlet, left																																					
W	Angled																																				
Number of pins/wires, left																																					
3	3-pin																																				
Display																																					
-	None																																				
F	Signal status LED																																				
Circuitry																																					
-	None																																				
P	Integrated protective circuit																																				
Cable characteristic																																					
K	Standard																																				
Cable length																																					
0.3	0.3 m																																				
0.6	0.6 m																																				
Cable identification																																					
N	Without inscription label holder																																				
Connection technology on right, control side																																					
LE	Open end																																				
M12	Plug connector M12x1, A-coded, EN 61076-2-101																																				
Cable outlet, right																																					
-	Open end																																				
W	Angled																																				
Number of pins/wires, right																																					
3	3-pin																																				

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Type codes – Connecting cable with PVC cable sheath

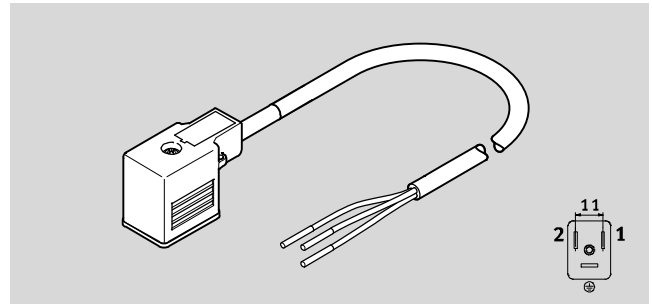
		KMF	-	1	-	24	-	10	-	LED
Function/connection technology on left, field device side										
KMF	Connecting cables for valves Socket type B to industry standard, 11 mm									
Series										
1	Series 1									
Operating voltage										
24	24 V DC									
24DC	24 V DC									
230AC	230 V AC									
Cable length										
2,5	2.5 m									
5	5 m									
10	10 m									
Display										
LED	Signal status LED									

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Technical data – Connecting cable with PUR cable sheath

Connecting cable NEBV-B2W3

- Connecting cable
- Pre-assembled at one or 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	Connection pattern type B, to industry standard, 11 mm	
Number of pins/wires	3	
Assigned pins/wires	3	
Type of mounting	On solenoid valve via central screw M3	
Electrical connection 2		
Function	Controller side	
Connection type	Cable	Plug connector
Cable outlet	–	Angled
Design	–	Round
Connection technology	Open end	M12x1, A-coded, to EN 61076-2-101
Number of pins/wires	3	5
Assigned pins/wires	3	3
Type of mounting	–	Screw locking with spanner size 13 (hexagonal)

Technical data – Electrical				
Nominal operating voltage	[V AC/DC]	24	110	230
Operating voltage range	[V AC]	18 ... 30	0 ... 110	0 ... 230
	[V DC]	18 ... 30	0 ... 110	0 ... 230
Surge resistance	[kV]	0.8	1.5	4
Current rating at 40 °C	[A]	4	1	10
Degree of contamination		3	3	3
Display		Yellow LED, signal status display	–	–
Additional functions		Protective circuit	–	–
Protective earth connection		Yes	Yes	Yes

Technical data – Cable		
Cable composition	[mm ²]	3 x 0.75
Cable diameter	[mm]	5.9
Cable diameter tolerance	[mm]	±0.3
Cable characteristic		Standard
Cable test conditions		Test conditions on request
Cable identification		Without inscription label holder

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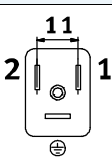
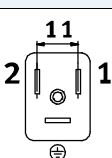
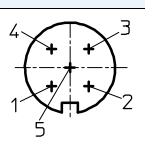
Technical data – Connecting cable with PUR cable sheath

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Materials		
Electrical connection 2	Connection technology	
	Open end	M12x1, A-coded, to EN 61076-2-101
Housing	TPE-U (PUR)	TPE-U (PUR)
Housing colour	Black	Black
Union nut	–	Nickel-plated die-cast zinc
Insulating sheath	PP	PP
Cable sheath	TPE-U (PUR)	TPE-U (PUR)
Cable sheath colour	Grey	Grey
Note on materials	RoHS compliant	RoHS compliant
	Contains paint-wetting impairment substances	Contains paint-wetting impairment substances

Operating and environmental conditions				
Nominal operating voltage	[V AC/DC]	24	110	230
Ambient temperature	[°C]	–25 ... +80	–25 ... +80	–25 ... +80
Ambient temperature with flexible cable installation	[°C]	–25 ... +80	–25 ... +80	–25 ... +80
CE mark (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive	To EU Low Voltage Directive	To EU Low Voltage Directive
Certification	c CSA us (OL)	c CSA us (OL)	c CSA us (OL)	c CSA us (OL)
Degree of protection	IP67	IP67	IP67	IP67
Note on degree of protection	In mounted state	In mounted state	In mounted state	In mounted state

1) Additional information www.festo.com/sp → Certificates.

Circuitry (view of socket/plug connector)				
Electrical connection 1	Pin	Wire colour ¹⁾	Pin	Electrical connection 2
Electrical connection 2, connection technology open end				
	1	BK	–	Open end
	2	BK	–	Open end
	GND	GN YE	–	Open end
Electrical connection 2, connection technology M12x1 A-coded to EN 61076-2-101				
	1	BK	3	
	2	BK	4	
	GND	GN YE	5	

1) To IEC 757

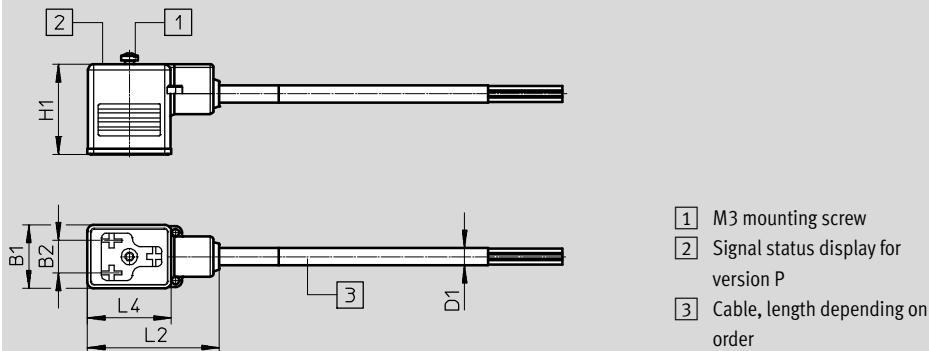
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Technical data – Connecting cable with PUR cable sheath

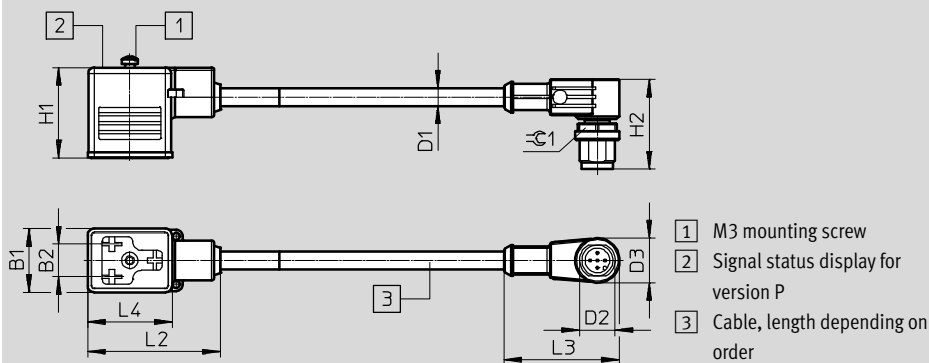
Dimensions

Download CAD data → www.festo.com

Electrical connection 2, connection technology open end



Electrical connection 2, connection technology plug connector M12x1



Type	B1	B2	D1 Ø	D2	D3 Ø	H1	H2	L2	L3	L4	≙G1
NEBV-B2W3-...-LE3	21.5	11	5.9	–	–	30.5	–	45	–	29	–
NEBV-B2W3-...-M12W3	21.5	11	5.9	M12x1	15	30.5	31	45	39	29	13

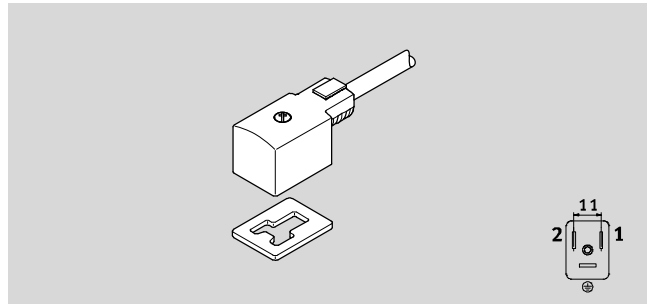
Connecting cables for valves, socket type B, industry standard

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Technical data – Connecting cable with PVC cable sheath

Connecting cables KMF

- Connecting cable
- Pre-assembled at one end
- For connecting valves



General technical data	
Electrical connection 1	
Function	Field device side
Connection type	Socket
Cable outlet	Angled
Design	Square
Connection technology	Connection pattern type B, to industry standard, 11 mm
Number of pins/wires	3
Assigned pins/wires	3
Type of mounting	On solenoid valve via central screw M3
Electrical connection 2	
Function	Controller side
Connection type	Cable
Connection technology	Open end
Number of pins/wires	3
Assigned pins/wires	3

Technical data – Electrical			
Nominal operating voltage	[V]	24 DC	230 AC
Nominal operating voltage	[V]	24 DC	230 AC
Operating voltage range	[V AC]	–	230 ... 254.5
	[V DC]	20.4 ... 27.6	–
Current rating at 40 °C	[A]	4	4
Degree of contamination		3	3
Display		Yellow LED, signal status display	–
Protective earth connection		Yes	Yes

Technical data – Cable		
Cable composition	[mm ²]	3 x 0.75
Cable diameter	[mm]	6
Cable characteristic		Standard
Cable test conditions		Test conditions on request
Cable identification		Without inscription label holder

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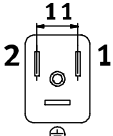
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Technical data – Connecting cable with PVC cable sheath

Materials	
Housing	PC
Cable sheath	PVC
Pin contacts	Bronze

Operating and environmental conditions		
Nominal operating voltage	[V]	24 DC 230 AC
Ambient temperature	[°C]	–20 ... +80 –20 ... +80
CE mark (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive
Degree of protection	IP67	IP67
Note on degree of protection	In mounted state	In mounted state

1) Additional information www.festo.com/sp → Certificates.

Circuitry (view of socket/plug connector)				
Electrical connection 1	Pin	Wire colour ¹⁾	Pin	Electrical connection 2
Electrical connection 2, connection technology open end				
	1	BK	–	Open end
	2	BK	–	Open end
	GND	GNYE	–	Open end

1) To IEC 757

Dimensions

Download CAD data → www.festo.com

Technical drawing of a Festo cable assembly showing front and side views with dimensions and callouts.

Front View Dimensions:

- $L2$: Length of the cable jacket.
- $B1$: Width of the connector housing.
- $D1$: Diameter of the cable jacket.

Side View Dimensions:

- $L3$: Length of the cable jacket.
- $L4$: Length of the cable jacket.
- $L1$: Length of the connector housing.
- $H2$: Height of the connector housing.
- $H1$: Total height of the assembly.
- $D2$: Diameter of the mounting hole.

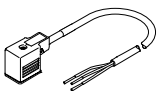
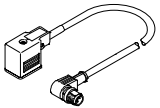
Callouts:

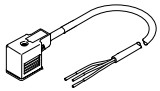
- 1: Cable, 3-wire
- 2: Screw M3

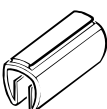
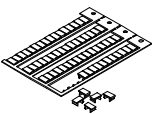
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Ordering data

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Ordering data – Connecting cable with PUR cable sheath						
	Nominal operating voltage [V]		Cable length [m]	Weight [g]	Part No.	Type
Electrical connection 2, connection technology open end						
	24 AC/DC	• Signal status display • Protective circuit	0.6	80	3679778	NEBV-B2W3F-P-K-0.6-N-LE3 
	230 AC/DC	–	0.6	80	3579468	NEBV-B2W3-K-0.6-N-LE3 
Electrical connection 2, connection technology M12x1 A-coded to EN 61076-2-101						
	24 AC/DC	• Signal status display • Protective circuit	0.3	60	3679773	NEBV-B2W3F-P-K-0.3-N-M12W3 
			0.6	100	3679774	NEBV-B2W3F-P-K-0.6-N-M12W3 
	110 AC/DC	–	0.3	60	3579463	NEBV-B2W3-K-0.3-N-M12W3 
			0.6	100	3579464	NEBV-B2W3-K-0.6-N-M12W3 

Ordering data – Connecting cable with PVC cable sheath						
	Nominal operating voltage [V]		Cable length [m]	Weight [g]	Part No.	Type
Electrical connection 2, connection technology open end						
	24 DC	Signal status display	2.5	170	30935	KMF-1-24DC-2,5-LED
			5	320	30937	KMF-1-24DC-5-LED
			10	620	193458	KMF-1-24-10-LED
	230 AC	–	2.5	170	30936	KMF-1-230AC-2,5
			5	320	30938	KMF-1-230AC-5

Ordering data – Accessories					Part No.	Type
	Inscription clips for placing on a cable with diameter 5 ... 8 mm		11x20 mm		33361	KM-BZ
	Inscription labels for connecting cable KMF, 64 per frame		6x10 mm		18576	IBS-6x10

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Ordering data – Modular product system

Ordering table		Condi- tions	Code	Entry code
[M]	Module no.	8003577		
	Connecting cable	Connecting cables for valves	NEBV	NEBV
	Connection technology on left, field device side	Socket type B to industry standard, 11 mm	-B2	-B2
	Cable outlet, left	Angled	W	W
	Number of pins/wires, left	3-pin	3	3
[O]	Display	None		
		Signal status LED	F	
	Circuitry	None		
		Integrated protective circuit	-P	
[M]	Cable characteristics	Standard	-K	-K
	Cable length [m]	0.3	-0.3	
	[m]	0.6	-0.6	
	Cable identification	Without inscription label holder	-N	-N
	Connection technology on right, control side	Open end	-LE	
		Plug connector M12x1, A-coded, EN 61076-2-101	-M12	
[O]	Cable outlet, right	None		
		Angled	W	
[M]	Number of pins/wires, right	3-pin	3	3

[1] -0.3, W Only with connection technology on right M12

[M] Mandatory data

[O] Options

Transfer order code

8003577 NEBV - B2 W 3 - - K - - N - 3