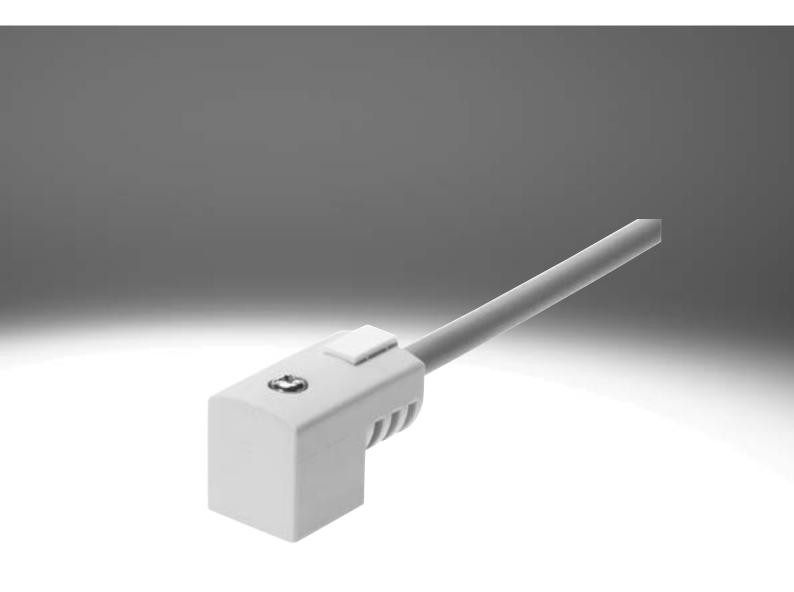
Connecting cables for valves, socket type B, industry standard





Festo Core Range

Solves the majority of your automation tasks

With the Festo Core Range, we have selected the most important products and functions from our broad product catalogue, and added the quickest delivery.

The Core Range offers you the best value for your automation tasks.



Fast:

Quickest delivery - wherever, whenever Expected high Festo quality

Easy and fast to select



Type codes – Connecting cable with PUR cable sheath

001	Series	
NEBV	Connecting cable for valves	
002	Product version Product version	
	Standard	
С	Easy-to-clean design	
000		
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 S1	Socket M12x1 A-coded, EN 61076-2-101 Sub-D socket	
S7	Sub-D Socket Sub-D HD socket	
H1	Socket connection pattern H	-
Q7	Port pattern Q7 socket	-
HS	Socket connection pattern S	-
.13	Social connection pattern 5	
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	25 37	
	25	
37 44	25 37 44	
37	25 37 44 Display	
37 44 006	25 37 44 Display None	
37 44 006	25 37 44 Display None LED signal status, AC	
37 44 006 F L	25 37 44 Display None LED signal status, AC LED signal status, DC	
37 44 006	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN	
37 44 006 F L	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP	
37 44 006 F L N	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN	
37 44 006 F L N	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP	
37 44 006 F L N P	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP LED, UC	
37 44 006 F L N P	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED, UC Additional socket functions	
37 44 006 F L N P U	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED, UC Additional socket functions None	
37 44 006 F L N P U	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP LED, UC Additional socket functions None Hood for MPA-L	
37 44 006 F L N P U 007	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP LED, UC Additional socket functions None Hood for MPA-L Hood for MPA-S With seal	
37 44 006 F L N P U	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP LED, UC Additional socket functions None Hood for MPA-L Hood for MPA-S	
37 44 006 F L N P U 007	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP LED, UC Additional socket functions None Hood for MPA-L Hood for MPA-S With seal	
37 44 006 F L N P U 007	25 37 44 Display None LED signal status, AC LED signal status, DC LED switching state, NPN LED switching state, PNP LED, UC Additional socket functions None Hood for MPA-L Hood for MPA-S With seal Circuitry	

	Lance of the second of the sec	
009	Cable characteristic	
Р	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	
	3000000000	
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 61076-2-104 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		
39 44	44	
44		
	Degree of protection, electrical system Standard	
016	Degree of protection, electrical system Standard	
44	Degree of protection, electrical system	

S9

S10

IP65/IP67

IP65/IP67/IP69K

Type codes – Connecting cable with PVC cable sheath

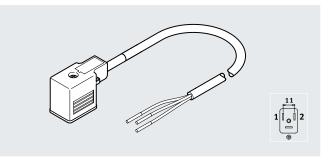
001	Series						
KMF	Connecting cable for valves, socket type B to industry standard 11 mm						
002	Variant						
1	Variant 1						
003	Rated operating voltage						
24	24 V DC						
24DC	24 V DC						
230AC	230 V AC						

Cable length [m]	
2.5	
5	
10	
Display	
No display	
LED signal status, DC	
	2.5 5 10 Display No display

Datasheet – 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		
Туре	NEBV-B2W3FLE3	NEBV-B2W3FM12W3
Electrical connection 1		
Function	Field device side	
Connection type	Socket	
Cable outlet	Angled	
Design	Rectangular	
Connection technology	Plug pattern type B, to industry standard, 13	l mm
Number of pins/wires	3	
Assigned pins/wires	3	
Type of mounting	On solenoid valve with M3 central screw	
Electrical connection 2		
Function	Controller side	
Connection type	Cable	Plug
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 (hexagon)

Technical data – Electrics							
Nominal operating voltage		24 V AC/DC	110 V AC/DC	230 V AC/DC			
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			
Acceptable current load at 40°C	[A]	4	1	10			
Pollution degree		3	3	3			
Display		Yellow LED, signal status indication	-	-			
Additional functions		Protective circuit	-	-			
Protective earth connection		Available	Available	Available			

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

Datasheet – Connecting cable with PUR cable sheath

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	24 V AC/DC	110 V AC/DC	230 V AC/DC			
Ambient temperature [°C]	-25 +80	-25 +80	-25 +80			
Ambient temperature with flexible [°C]	-25 +80	-25 +80	-25 +80			
cable installation						
CE marking (see	-	To EU Low Voltage Directive	To EU Low Voltage Directive			
declaration of conformity) ¹⁾	To EU RoHS Directive	To EU RoHS Directive	To EU RoHS Directive			
Certification	c CSA us (OL)	c CSA us (OL)	c CSA us (OL)			
Degree of protection	IP67	IP67	IP67			
Note on degree of protection	In assembled state	In assembled state	In assembled state			
Corrosion resistance class CRC ²⁾	2	2	2			

¹⁾ For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/nebv -> 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.

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

Circuitry (socket/plug view)								
Electrical connection 1	Pin	Wire colour ¹⁾ Pin Electrical connection						
Electrical connection 2, connection technology open end								
11	1	BK	-	Open end				
	2	ВК	-	Open end				
1 2	GND	GNYE	_	Open end				
Electrical connection 2, connection	n techno	ology M12x1, A-coded to EN 61076-2-101						
11	1	ВК	3	2				
	2	BK	4	+				
1 2	GND	GN YE	5	3 (+ + +) 1				

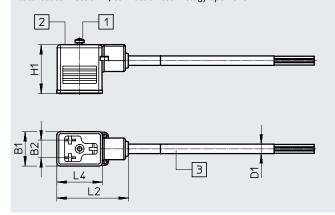
¹⁾ To IEC 757

²⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Datasheet – Connecting cable with PUR cable sheath

Dimensions

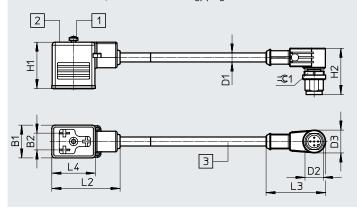
Electrical connection 2, connection technology open end



Download CAD data → www.festo.com

- [1] Mounting screw M3
- [2] Signal status indication for version P
- [3] Cable, length depending on the order

Electrical connection 2, connection technology plug M12x1



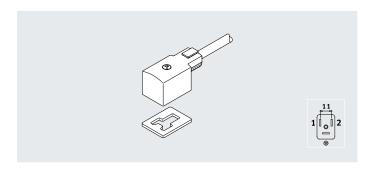
- [1] Mounting screw M3
- [2] Signal status indication for version P
- [3] Cable, length depending on the order

Туре	B1	B2	D1 Ø	D2	D3 Ø	H1	H2	L2	L3	L4	=©
NEBV-B2W3LE3	21.5	11	5.9	-	_	30.5	-	45	-	29	-
NEBV-B2W3M12W3	21.5	11	5.9	M12x1	15	30.5	31	45	39	29	13

Datasheet – Connecting cable with PVC cable sheath

Connecting cable 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	Rectangular
Connection technology	Plug pattern type B, to industry standard, 11 mm
Number of pins/wires	3
Assigned pins/wires	3
Type of mounting	On solenoid valve with M3 central screw
Mounting position	Any
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			
Nominal operating voltage		24 V DC	230 V AC
Operating voltage range	[V AC]	-	230 254.5
	[V DC]	20.4 27.6	-
Acceptable current load at 40°C	[A]	4	4
Pollution degree		3	3
Display		Yellow LED, signal status indication	-
Protective earth connection		Available	Available

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

Connecting cables for valves, socket type B, industry standard

Datasheet – Connecting cable with PVC cable sheath

Materials	
Housing	PC, POM
Cable sheath	PVC
Pin contacts	Bronze
PWIS conformity	VDMA24364-B2-L

Operating and environmental conditions		
Nominal operating voltage	24 V DC	230 V AC
Ambient temperature [°C]	-20 +80	-20 +80
CE marking (see declaration of conformity) ¹⁾	-	To EU Low Voltage Directive
	To EU RoHS Directive	To EU RoHS Directive
UKCA marking (see declaration of conformity) ¹⁾	-	To UK regulations for electrical equipment
	To UK RoHS instructions	To UK RoHS instructions
Degree of protection to IEC 60529	IP67	IP67
Note on degree of protection	In assembled state	In assembled state

¹⁾ For information about the area of use, see the declaration of conformity at: www.festo.com/catalogue/...

Support/Downloads.

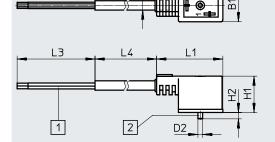
If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Circuitry (socket/plug view)				
Electrical connection 1	Pin	Wire colour ¹⁾	Pin	Electrical connection 2
Electrical connection 2, con	nection technology open end			
11	1	ВК	_	Open end
	2	ВК	_	Open end
1 2	GND	GNYE	-	Open end

1) To IEC 757







Туре	B1	D1 Ø	D2	H1	H2	L1	L2	L3	L4
KMF-12.5	21	6	M3	23	6	43	28	50	2500
KMF-15									5000
KMF-110									10000

Ordering data

★ Core Range

Ordering data – Connecti	ing cable with PVC cable sheath					
	Nominal operating voltage		Cable length	Weight	Part no.	Туре
	[V]		[m]	[g]		
Electrical connection 2,	connection technology open end					
	24 DC	Signal status indication	2.5	170	★ 30935	KMF-1-24DC-2.5-LED

Ordering data – Connecti	ng cable with PUR cable sheath					
	Nominal operating voltage		Cable length	Weight	Part no.	Type
	[V]		[m]	[g]		
Electrical connection 2, o	connection technology open end					
	24 AC/DC	Signal status indicationProtective 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, o	connection technology M12x1, A-coded	to EN 61076-2-101				
	24 AC/DC	Signal status indication	0.3	60	3679773	NEBV-B2W3F-P-K-0.3-N-M12W3
		Protective circuit	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		Cable length	Weight	Part no.	Туре	
	[V]		[m]	[g]			
Electrical connection 2, o	onnection technology open end						
	24 DC	Signal status indication	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 – Accessor	ies			
			Part no.	Туре
	Inscription labels for attaching to 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

Connecting cables for valves, socket type B, industry standard

Ordering data - Modular product system

Ordering table					
			Conditions	Code	Ente code
Module no.		8003577			
Connecting cable		Connecting cables for valves		NEBV	NEB\
Connection technology on the left side	, field device	Socket type B to industry standard, 11 mm		-B2	-B2
Cable outlet on the left		Angled		W	W
Number of pins/wires on the left		3-pin		3	3
Display		None			
		Signal status LED		F	
Circuitry		None			
		Integrated protective circuit		-Р	
Cable characteristic		Standard		-K	-K
Cable length	[m]	0.3	[1]	-0.3	
	[m]	0.6		-0.6	
Cable designation		Without inscription label holder		-N	-N
Connection technology on the righ	nt,	Open end		-LE	
controller side		Plug M12x1, A-coded, EN 61076-2-101		-M12	
Cable outlet on the right		None			
		Angled	[1]	W	
Number of pins/wires on the right		3-pin		3	3

^{[1] -0.3,} W Only with connection technology on the right, M12