

Type codes – Connecting cable with PUR cable sheath

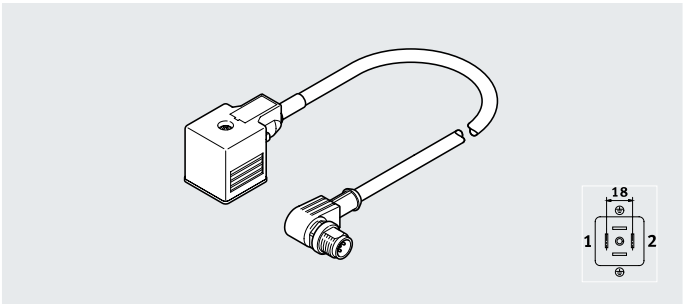
001	Baureihe
NEBV	Verbindungsleitung für Ventile
002	Ausführung Produkt
	Standard
C	Reinigungsfreundliches Design
003	Anschluss technik links, Feldgeräteseite
A1	Dose Form A, EN 175301-803
B2	Dose Form B, Industriestandard 11 mm
C15	Dose Form C, schmale Bauform
H1	Dose Anschlussbild H
M8	Dose M8x1, A-codiert, EN 61076-2-104
M12	Dose M12x1, A-codiert, EN 61076-2-101
Z3	Dose Anschlussbild ZC, Furchschraube
Z4	Dose Anschlussbild ZC, metrische Schraube
S1	Dose Sub-D
S7	Dose Sub-D HD
Q7	Dose Anschlussbild Q7
HS	Dose Anschlussbild S
HP	Dose Anschlussbild HP
004	Kabelabgang links
	Ohne
G	Gerade
W	Gewinkelt
WA	Gewinkelt 45°
005	Anzahl Pole/Adern links
2	2
3	3
4	4
8	8
9	9
15	15
25	25
37	37
44	44
006	Anzeige
	Ohne
F	LED Signalzustand, AC
L	LED Signalzustand, DC
N	LED Schaltzustand, NPN
P	LED Schaltzustand, PNP
U	LED, UC
007	Dosenzusatzfunktionen
	Ohne
HL	Haube für MPA-L
HM	Haube für MPA-S
HS	Mit Dichtung
008	Beschaltung
	Ohne
P	Schutzbeschaltung
R	Haltestromabsenkung mit integrierter Schutzbeschaltung

009	Leitungseigenschaft
P	Basic
K	Standard
E	Energiekettentauglich
F	Lebensmittelecht nach Norm
010	Leitungsausführung
	Standard
D	Doppelkabel
M	Alternativer Werkstoff
N	Litzen
011	Leitungslänge [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	Leistungsbezeichnung
	Mit Schildträger
N	Ohne Schildträger
013	Anschluss technik rechts, Steuerungsseite
LE	Offenes Ende
M8	Stecker M8x1 A-codiert, EN 61076-2-104
M12	Stecker M12x1 A-codiert, EN 61076-2-101
Z1	Stecker Anschlussbild ZB, Furchschraube
014	Stecker
	Ohne
G	Gerade
W	Gewinkelt
015	Anzahl Pole/Adern rechts
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	Schutzart Elektrik
	Standard
S6	IP40
S1	IP65
S9	IP65/IP67
S10	IP65/IP67/IP69K

Datasheet – Connecting cable with PUR cable sheath

Connecting cable NEBV-A1W3

- Connecting cable
- Pre-assembled at one or both ends
- For connecting valves



General technical data		
Type	NEBV-A1W3F-...-LE3	NEBV-A1W3F-... -M12W3r
Electrical connection 1		
Function	Field device side	
Connection type	Socket	
Cable outlet	Angled	
Design	Rectangular	
Connection technology	Plug pattern type A based on EN 175301-803	
Number of pins/cores	4	
Assigned pins/cores	4	
Type of mounting	On solenoid valve via M3 central screw	
Electrical connection 2		
Function	Control 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/cores	3	5
Assigned pins/cores	3	3
Type of mounting	–	Screw-type lock with hexagon A/F 13 mm

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
Current rating at 40 °C	[A]	4	1	10
Contamination level		3	3	3
Switching status indication		Yellow LED	–	–
Additional functions		Protective circuit	–	–
Protective earth connection		Available	Available	Available

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

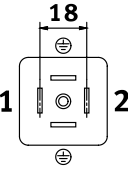
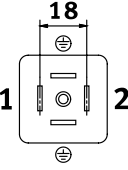
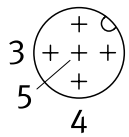
Datasheet – Connecting cable with PUR cable sheath

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
LABS conformity	VDMA24364 zone III	VDMA24364-Zone III

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 cable installation [°C]	–25 ... +80	–25 ... +80	–25 ... +80
CE marking (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive	To EU Low Voltage Directive
	To EU RoHS Directive	To EU RoHS Directive	To EU RoHS Directive
UKCA marking (see declaration of conformity) ¹⁾	–	To UK regulations for electrical equipment	To UK regulations for electrical equipment
	To UK RoHS regulations	To UK RoHS regulations	To UK RoHS regulations
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 mounted state	In mounted state	In mounted state
Corrosion resistance class CRC2)	2	2	2

1) More information www.festo.com/catalogue/... → Support/Downloads.

2) More information www.festo.com/x/topic/crc

Wiring (socket/plug view)				
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	

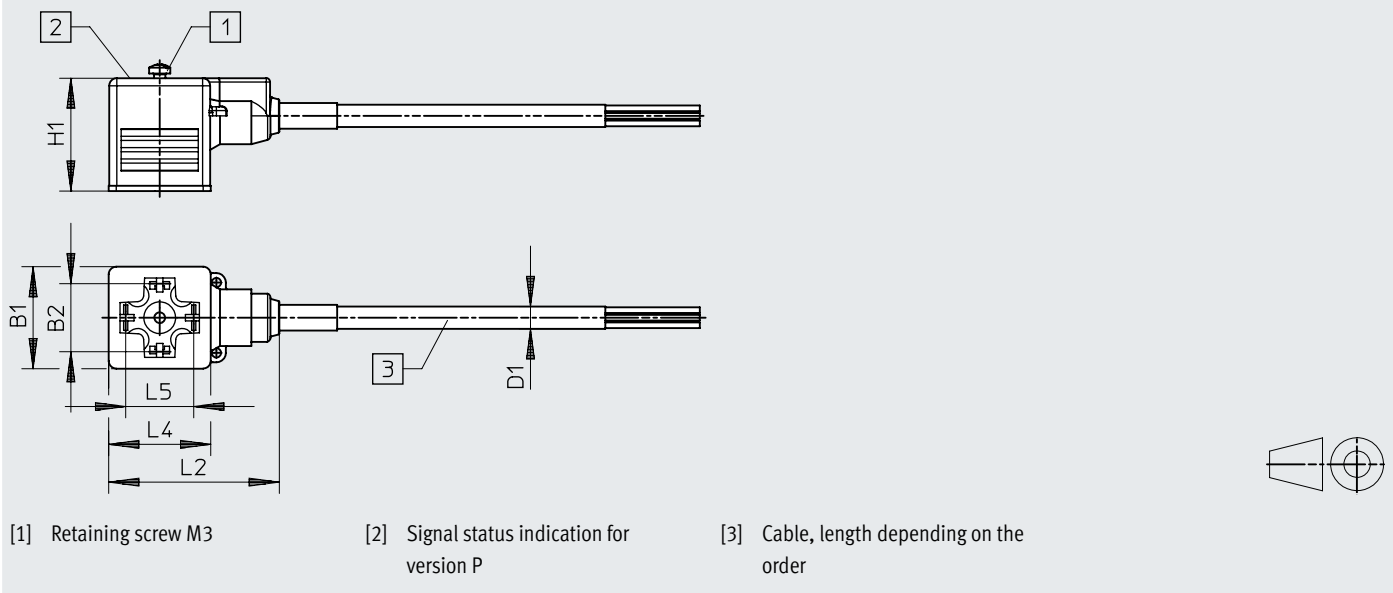
1) To IEC 757

Datasheet – Connecting cable with PUR cable sheath

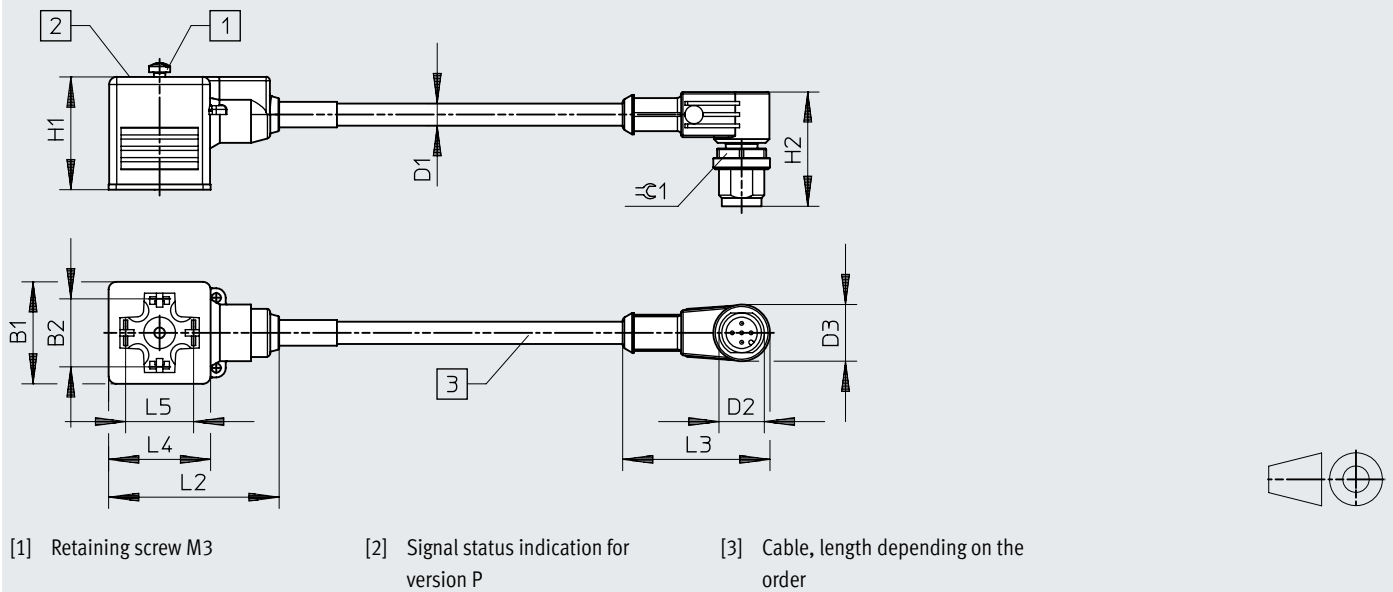
Dimensions

Download CAD data → www.festo.com

Electrical connection 2, connection technology open end

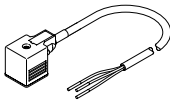
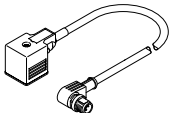
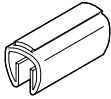
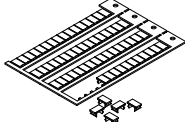


Electrical connection 2, connection technology plug M12x1



Type	B1	B2	D1 ø	D2	D3 ø	H1	H2	L2	L3	L4	L5	G1
NEBV-A1W3-...-LE3	27	18	5.9	–	–	30	–	45	–	27	18	–
NEBV-A1W3-...-M12W3	27	18	5.9	M12x1	15	30	31	45	39	27	18	13

Ordering data

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	• Switching status indication • Protective circuit	0.6	80	3679776	NEBV-A1W3F-P-K-0.6-N-LE3
	230 AC/DC	–	0.6	80	3579466	NEBV-A1W3-K-0.6-N-LE3
Electrical connection 2, connection technology M12x1, A-coded to EN 61076-2-101						
	24 AC/DC	• Switching status indication • Protective circuit	0.3	60	3679771	NEBV-A1W3F-P-K-0.3-N-M12W3
			0.6	100	3679772	NEBV-A1W3F-P-K-0.6-N-M12W3
	110 AC/DC	–	0.3	60	3579461	NEBV-A1W3-K-0.3-N-M12W3
			0.6	100	3579462	NEBV-A1W3-K-0.6-N-M12W3
Ordering data – Accessories						
					Part no.	Type
	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

Ordering data – Modular product system

Ordering table		Conditions	Code	Enter code
Module no.	8003577			
Connecting cable	Connecting cables for valves		NEBV	NEBV
Connection technology left, field device side	Socket type A, EN 175301-803		-A1	-A1
Cable outlet left	Angled		W	W
Number of pins/cores on the left	3-pin		3	3
Display	None			
	Signal status LED		F	
Wiring	None			
	Integrated protective circuit		-P	
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 right, controller side	Open end		-LE	
	Plug M12x1, A-coded, EN 61076-2-101		-M12	
Cable outlet right	None			
	Angled	[1]	W	
Number of pins/cores on the right	3-pin		3	3

1) 0.3, W Only with connection technology on the right M12