

## Type codes – Connecting cable with PUR cable sheath

<b>001</b>	<b>Series</b>	
<b>NEBV</b>	Connecting cable for valves	

<b>002</b>	<b>Product version</b>	
	Standard	
<b>C</b>	Easy-to-clean design	

<b>003</b>	<b>Connection technology left, field device side</b>	
<b>A1</b>	Socket type A, EN 175301-803	
<b>B2</b>	Socket type B, industry standard, 11 mm	
<b>C1S</b>	Socket type C, narrow design	
<b>Z4</b>	Socket connection pattern ZC, metric screw	
<b>Z3</b>	Socket connection pattern ZC, self-tapping screw	
<b>M8</b>	Socket M8x1 A-coded, EN 61076-2-104	
<b>M12</b>	Socket M12x1 A-coded, EN 61076-2-101	
<b>S1</b>	Sub-D socket	
<b>S7</b>	Sub-D HD socket	
<b>H1</b>	Socket connection pattern H	
<b>Q7</b>	Port pattern Q7 socket	
<b>HS</b>	Socket connection pattern S	

<b>004</b>	<b>Cable outlet left</b>	
	None	
<b>G</b>	Straight	
<b>W</b>	Angled	
<b>WA</b>	Angled 45°	

<b>005</b>	<b>Number of pins/wires on the left</b>	
<b>2</b>	2	
<b>3</b>	3	
<b>4</b>	4	
<b>8</b>	8	
<b>9</b>	9	
<b>15</b>	15	
<b>25</b>	25	
<b>37</b>	37	
<b>44</b>	44	

<b>006</b>	<b>Display</b>	
	None	
<b>F</b>	LED signal status, AC	
<b>L</b>	LED signal status, DC	
<b>N</b>	LED switching state, NPN	
<b>P</b>	LED switching state, PNP	
<b>U</b>	LED, UC	

<b>007</b>	<b>Additional socket functions</b>	
	None	
<b>HL</b>	Hood for MPA-L	
<b>HM</b>	Hood for MPA-S	
<b>HS</b>	With seal	

<b>008</b>	<b>Circuitry</b>	
	None	
<b>P</b>	Protective circuit	
<b>R</b>	Holding current reduction with integrated protective circuit	

<b>009</b>	<b>Cable characteristic</b>	
<b>P</b>	Basic	
<b>K</b>	Standard	
<b>E</b>	Suitable for energy chains	
<b>F</b>	Food-safe to standard	

<b>010</b>	<b>Cable design</b>	
	Standard	
<b>M</b>	Alternative material	
<b>N</b>	Leads	
<b>D</b>	Double cable	

<b>011</b>	<b>Cable length [m]</b>	
<b>0.1</b>	0.1	
<b>0.2</b>	0.2	
<b>0.3</b>	0.3	
<b>0.5</b>	0.5	
<b>0.6</b>	0.6	
<b>1</b>	1	
<b>2</b>	2	
<b>2.5</b>	2.5	
<b>3</b>	3	
<b>5</b>	5	
<b>10</b>	10	

<b>012</b>	<b>Cable identification</b>	
	With label holder	
<b>N</b>	Without label holder	

<b>013</b>	<b>Connection technology right, controller side</b>	
<b>M8</b>	Plug M8x1 A-coded, EN 61076-2-104	
<b>M12</b>	Plug M12x1 A-coded, EN 61076-2-101	
<b>Z1</b>	Port pattern ZB plug, self-tapping screw	
<b>LE</b>	Open end	

<b>014</b>	<b>Plug</b>	
	None	
<b>G</b>	Straight	
<b>W</b>	Angled	

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

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

Type codes – Connecting cable with PVC cable sheath

001	Series
<b>KMC</b>	Connecting cable for valves, socket type A, EN 175301-803

002	Variant
<b>1</b>	Variant 1

003	Rated operating voltage
<b>24</b>	24 V DC
<b>24DC</b>	24 V DC
<b>230AC</b>	230 V AC

004	Cable length [m]
<b>2.5</b>	2.5
<b>5</b>	5
<b>10</b>	10

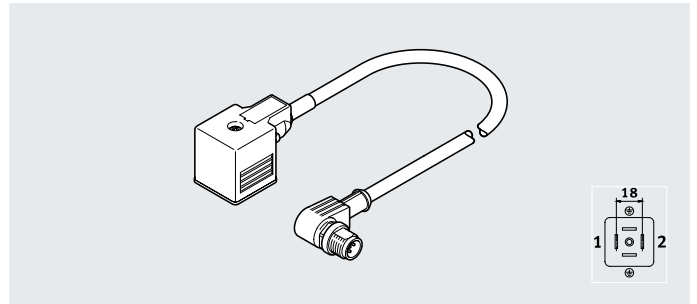
  

005	Display
	No display
<b>LED</b>	LED signal status, DC

## 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	
<b>Electrical connection 1</b>			
Function	Field device side		
Connection type	Socket		
Cable outlet	Angled		
Design	Rectangular		
Connection technology	Connection pattern type A based on EN 175301-803		
Number of pins/wires	4		
Assigned pins/wires	4		
Type of mounting	On solenoid valve with M3 central screw		
<b>Electrical connection 2</b>			
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-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
Acceptable current load at 40°C	[A]	4	1	10
Pollution degree		3	3	3
Switching status indication		Yellow LED	–	–
Additional functions		Protective circuit	–	–
Protective earth connection		Available	Available	Available

Technical data – Cable		
Cable composition	[mm <sup>2</sup> ]	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

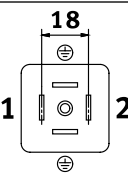
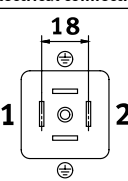
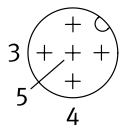
Materials		
Electrical connection 2	Connection technology	
	Open end	M12x1, A-coded, to EN 61076-2-101
Housing	TPE-U(PUR)	TPE-U(PUR)
Housing colour	Black	Black
Union nut	–	Nickel-plated die-cast zinc
Insulating sheath	PP	PP
Cable sheath	TPE-U(PUR)	TPE-U(PUR)
Cable sheath colour	Grey	Grey
Note on materials	RoHS-compliant	
	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 cable installation [°C]	–25 ... +80	–25 ... +80	–25 ... +80
CE marking (see declaration of conformity) <sup>1)</sup>	–	To EU Low Voltage Directive	To EU Low Voltage Directive
	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 CRC2)	2	2	2

1) Additional information: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

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

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 <sup>1)</sup>	Pin	Electrical connection 2
<b>Electrical connection 2, connection technology open end</b>				
	1	BK	–	Open end
	2	BK	–	Open end
	GND	GNYE	–	Open end
<b>Electrical connection 2, connection technology M12x1, A-coded to EN 61076-2-101</b>				
	1	BK	3	
	2	BK	4	
	GND	GNYE	5	

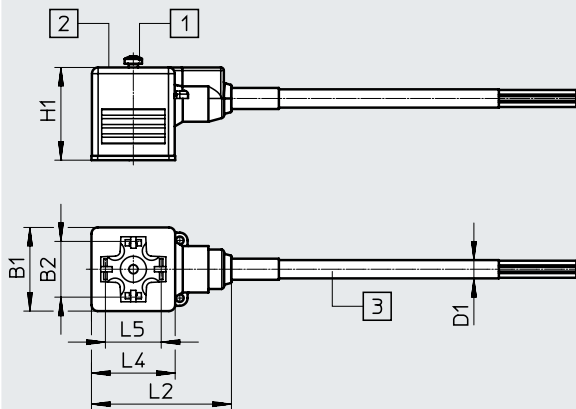
1) To IEC 757

## Datasheet – Connecting cable with PUR cable sheath

### Dimensions

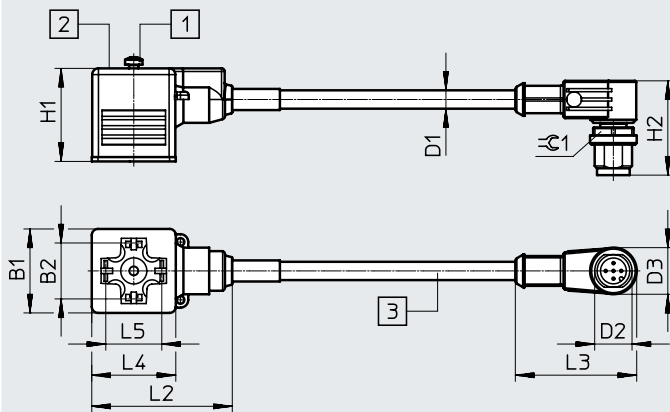
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Electrical connection 2, connection technology open end



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

Electrical connection 2, connection technology plug M12x1



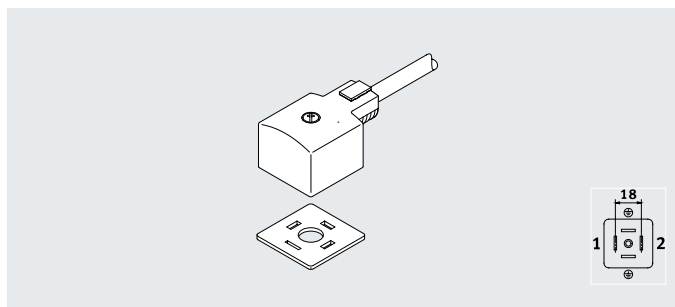
- [1] Retaining screw M3
- [2] Signal status indication for version P
- [3] Cable, length depending on the order

Type	B1	B2	D1 ∅	D2	D3 ∅	H1	H2	L2	L3	L4	L5	⊕1
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

## Datasheet – Connecting cable with PVC cable sheath

### Connecting cable KMC

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



General technical data	
Type of mounting	On solenoid valve with M3 central screw
Mounting position	Any
Electrical connection	Socket
	Type A

Technical data – Electrics		
Nominal operating voltage	24 V DC	230 V AC
Switching status indication	LED	–
Protective earth connection	Available	Available
Reverse polarity protection	For all electrical connections	For all electrical connections

Technical data – Cable		
Cable composition	[mm <sup>2</sup> ]	3x 0.75
Cable diameter	[mm]	6

Materials	
Housing	PC
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
CE marking (see declaration of conformity) <sup>1)</sup>	–	To EU Low Voltage Directive
	To EU RoHS Directive	To EU RoHS Directive
UKCA marking (see declaration of conformity) <sup>1)</sup>	–	To UK regulations for electrical equipment
	To UK RoHS instructions	To UK RoHS instructions
Degree of protection	IP67	IP67
	To IEC 60529	To IEC 60529
Certification	–	Germanischer Lloyd
Corrosion resistance class CRC <sup>2)</sup>	1	1

1) Additional information: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

2) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

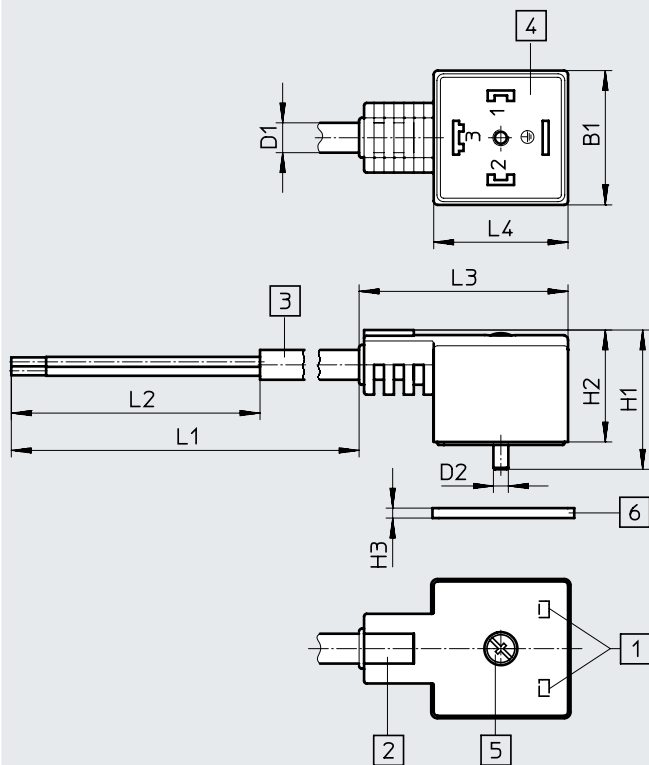
Circuitry (socket/plug view)				
Electrical connection 1	Pin	Wire colour <sup>1)</sup>	Pin	Electrical connection 2
	1	BK	–	Open end
	2	BK	–	Open end
	GND	GNYE	–	Open end

1) To IEC 757

Datasheet – Connecting cable with PVC cable sheath

Dimensions

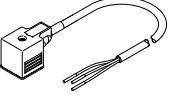
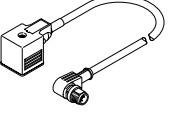
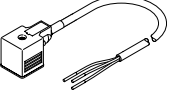
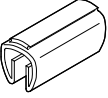
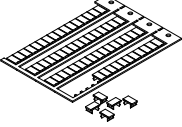
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- [1] LED illuminated area
- [2] Location for inscription label  
IBS-6x10
- [3] 3-wire cable
- [4] Connection arrangement to  
EN 175301-803, type A
- [5] Retaining screw M3
- [6] Seal

Type	B1	D1 ∅	D2 ∅	H1	H2	H3	L1	L2	L3	L4
KMC-1...-2.5	27	6	M3	28	22.5	1.5	2550	50	42	27
KMC-1...-5							5050			
KMC-1...-10							10050			

## Ordering data

Ordering data – Connecting cable with PUR cable sheath						
	Nominal operating voltage [V]		Cable length [m]	Weight [g]	Part no.	Type
<b>Electrical connection 2, connection technology open end</b>						
	24 AC/DC	<ul style="list-style-type: none"> <li>Switching status indication</li> <li>Protective circuit</li> </ul>	0.6	80	<b>3679776</b>	<b>NEBV-A1W3F-P-K-0.6-N-LE3</b>
	230 AC/DC	–	0.6	80	<b>3579466</b>	<b>NEBV-A1W3-K-0.6-N-LE3</b>
<b>Electrical connection 2, connection technology M12x1, A-coded to EN 61076-2-101</b>						
	24 AC/DC	<ul style="list-style-type: none"> <li>Switching status indication</li> <li>Protective circuit</li> </ul>	0.3	60	<b>3679771</b>	<b>NEBV-A1W3F-P-K-0.3-N-M12W3</b>
			0.6	100	<b>3679772</b>	<b>NEBV-A1W3F-P-K-0.6-N-M12W3</b>
	110 AC/DC	–	0.3	60	<b>3579461</b>	<b>NEBV-A1W3-K-0.3-N-M12W3</b>
			0.6	100	<b>3579462</b>	<b>NEBV-A1W3-K-0.6-N-M12W3</b>
<b>Ordering data – Connecting cable with PVC cable sheath</b>						
	Nominal operating voltage [V]		Cable length [m]	Weight [g]	Part no.	Type
	24 DC	LED	2.5	170	<b>30931</b>	<b>KMC-1-24DC-2.5-LED</b>
			5	320	<b>30933</b>	<b>KMC-1-24DC-5-LED</b>
			10	620	<b>193459</b>	<b>KMC-1-24-10-LED</b>
	230 AC	–	2.5	170	<b>30932</b>	<b>KMC-1-230AC-2.5</b>
			5	320	<b>30934</b>	<b>KMC-1-230AC-5</b>
<b>Ordering data – Accessories</b>						
					Part no.	Type
	Inscription labels for attachment to a cable with diameter 5 ... 8 mm		11x20 mm		<b>33361</b>	<b>KM-BZ</b>
	Inscription labels for connecting cable KMF, 64 per frame		6x10 mm		<b>18576</b>	<b>IBS-6x10</b>



## Ordering data – Modular product system

Ordering table		Condi- tions	Code	Enter code
Module no.	<b>8003577</b>			
Connecting cable	Connecting cables for valves		<b>NEBV</b>	NEBV
Connection technology left, field device side	Socket type A, EN 175301-803		<b>-A1</b>	-A1
Cable outlet on the left	Angled		<b>W</b>	W
Number of pins/wires on the left	3-pin		<b>3</b>	3
Display	None			
	Signal status LED		<b>F</b>	
Circuitry	None			
	Integrated protective circuit		<b>-P</b>	
Cable characteristic	Standard		<b>-K</b>	-K
Cable length	[m] 0.3	[1]	<b>-0.3</b>	
	[m] 0.6		<b>-0.6</b>	
Cable designation	Without inscription label holder		<b>-N</b>	-N
Connection technology on the right, controller side	Open end		<b>-LE</b>	
	Plug M12x1, A-coded, EN 61076-2-101		<b>-M12</b>	
Cable outlet on the right	None			
	Angled	[1]	<b>W</b>	
Number of pins/wires on the right	3-pin		<b>3</b>	3

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