

## Plug socket with cable KMEB

**FESTO**



## Characteristics

### At a glance

- For valves with EB solenoid coil
- Pre-assembled
- Cable lengths 2.5 m, 5 m and 10 m
- 24 V DC with LEDs and protective circuit
- Not suitable for drag chains
- KMEB-1 with PVC cable
- KMEB-2 with PUR cable
- KMEB-3 with PVC cable

## Type code

001	Series
<b>KMEB</b>	Connecting cable

002	Variant
<b>1</b>	Variant 1
<b>2</b>	Variant 2
<b>3</b>	Variant 3

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

004	Connection technology on the right, controller side
	Open end
<b>M12</b>	Plug M12x1 A-coded, EN 61076-2-101

005	Cable length [m]
<b>0.5</b>	0.5
<b>2.5</b>	2.5
<b>5</b>	5
<b>10</b>	10

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

## Datasheet

### General technical data – Socket 2-pin

Mounting position	optional
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### Technical data – Electrical connection 1, socket, 2-pin

Electrical connection 1	Socket, to EN 175301-803, type C
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, note on cable outlet	90°
Electrical connection 1, design	Angular
Electrical connection 1, number of connections/cores	2
Electrical connection 1, type of mounting	On solenoid valve via M2.5 central screw

### Technical data – Electrical connection 2, socket, 2-pin

Electrical connection 2, connector system	Open end
Wire ends	Wire ferrule
Electrical connection 2, number of connections/cores	2

### Technical data – Electrical, 2-pin socket

Nominal operating voltage DC	24 V
Pollution degree	3
Reverse polarity protection	For all electrical connections
Protective conductor connection	Not available

### Technical data – Cable, socket 2-pin

Cable diameter	5.2 mm
Cable characteristic	Standard
Cable structure	2 x 0.75 mm <sup>2</sup>

### Materials – 2-pin socket

Material housing	PC
Material seals	NBR
Material electrical contact	Silver-plated copper alloy
Material cable sheath	PVC
LABS (PWIS) conformity	VDMA24364-B2-L

### Operating and environmental conditions – Socket 2-pin

Ambient temperature	-20 ... 80°C
Corrosion resistance class CRC <sup>1)</sup>	1 - Low corrosion stress
CE mark (see declaration of conformity) <sup>2)</sup>	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Degree of protection	IP65, To IEC 60529

1) Corrosion resistance class CRC 1 to Festo standard FN 940070 Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

2) More information [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) Support/Downloads.

### General technical data – Socket 3-pin

Mounting position	optional
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## Datasheet

### Technical data – Electrical connection 1, socket, 3-pin

Electrical connection 1	Socket, to EN 175301-803, type C
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, note on cable outlet	90°
Electrical connection 1, design	Angular
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	On solenoid valve via M2.5 central screw

### Technical data – Electrical connection 2, socket, 3-pin

Electrical connection 2, connector system	Open end
Wire ends	Wire ferrule
Electrical connection 2, number of connections/cores	3

### Technical data – Electrical, 3-pin socket

Rated operating voltage	24 V DC	230 V AC
Nominal operating voltage DC	24 V	–
Nominal operating voltage AC	–	230 V
Immunity to surge	0.8 kV	4 kV
Pollution degree	3	
Protective conductor connection	Available	

### Technical data – Cable, socket 3-pin

Cable diameter	5.2 mm
Cable characteristic	Standard
Cable structure	3 x 0.5 mm <sup>2</sup>

### Materials – 3-pin socket

Material housing	PA66-GF30
Material seals	NBR
Material electrical contact	Silver-plated copper alloy
Material cable sheath	PVC
LABS (PWIS) conformity	VDMA24364-B2-L

### Operating and environmental conditions – 3-pin socket

Rated operating voltage	24 V DC	230 V AC
Ambient temperature	-20 ... 80°C	
Corrosion resistance class CRC <sup>1)</sup>	1 - Low corrosion stress	
CE mark (see declaration of conformity) <sup>2)</sup>	In accordance with EU RoHS Directive	To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions	To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP65, To IEC 60529	

1) Corrosion resistance class CRC 1 to Festo standard FN 940070 Low corrosion stress. Dry indoor 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).

2) More information [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) Support/Downloads.

### General technical data – Socket 4-pin

Mounting position	optional
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## Datasheet

### Technical data – Electrical connection, socket, 4-pin

Electrical connection	4-pin, Angled socket, Type C, To DIN EN 175301-803	
Type of mounting	On solenoid valve via M2.5 central screw	

### Technical data – Electrical, socket 4-pin

Rated operating voltage	24 V DC	230 V AC
Nominal operating voltage DC	24 V	–
Nominal operating voltage AC	–	230 V
Protective conductor connection	Available	

### Technical data – Cable, socket 4-pin

Cable diameter	6.2 mm	
Cable structure	3 x 0.75 mm <sup>2</sup>	

### Materials – 4-pin socket

Material housing	PA, POM	
Material electrical contact	Bronze	
Material cable sheath	TPE-U(PUR)	
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B2-L	

### Operating and ambient conditions – 4-pin socket

Rated operating voltage	24 V DC	230 V AC
Ambient temperature	-20 ... 80°C	
CE mark (see declaration of conformity) <sup>2)</sup>	In accordance with EU RoHS Directive	To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions	To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP65, To IEC 60529	

2) More information [www.festo.com/catalogue/... Support/Downloads](http://www.festo.com/catalogue/... Support/Downloads).

### General technical data – Socket 5-pin

Mounting position	optional
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### Technical data – Electrical connection, 5-pin socket

Electrical connection	5-pin, Angled socket, Type C, To DIN EN 175301-803	
Type of mounting	On solenoid valve via M2.5 central screw	

### Technical data – Electrical, socket 5-pin

Nominal operating voltage DC	24 V	
Protective conductor connection	Available	

### Technical data – Cable, socket 5-pin

Cable diameter	4.6 mm	
Cable structure	3 x 0.5 mm <sup>2</sup>	

### Materials – 5-pin socket

Material housing	PA, POM	
Housing colour	Transparent	
Material electrical contact	Bronze	
Material cable sheath	TPE-U(PU)	
Cable sheath colour	Black	
LABS (PWIS) conformity	VDMA24364-B2-L	

## Datasheet

**Operating and environmental conditions – Socket 5-pin**

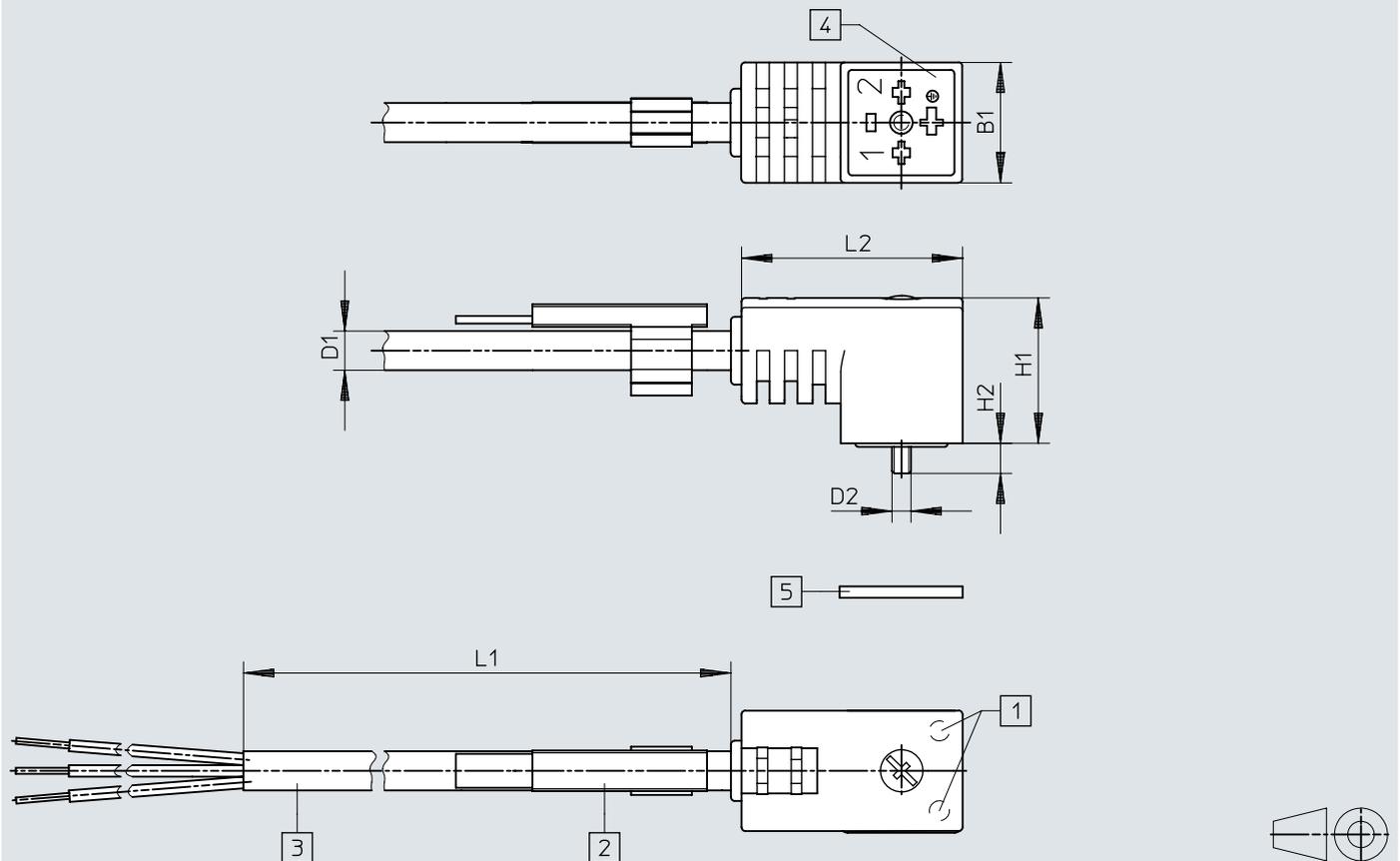
Ambient temperature	-5 ... 50°C
CE mark (see declaration of conformity) <sup>2)</sup>	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Degree of protection	IP65, To IEC 60529

2) More information [www.festo.com/catalogue/... Support/Downloads](http://www.festo.com/catalogue/... Support/Downloads).

## Dimensions

### Dimensions – KMEB-1

Download CAD data [www.festo.com](http://www.festo.com)



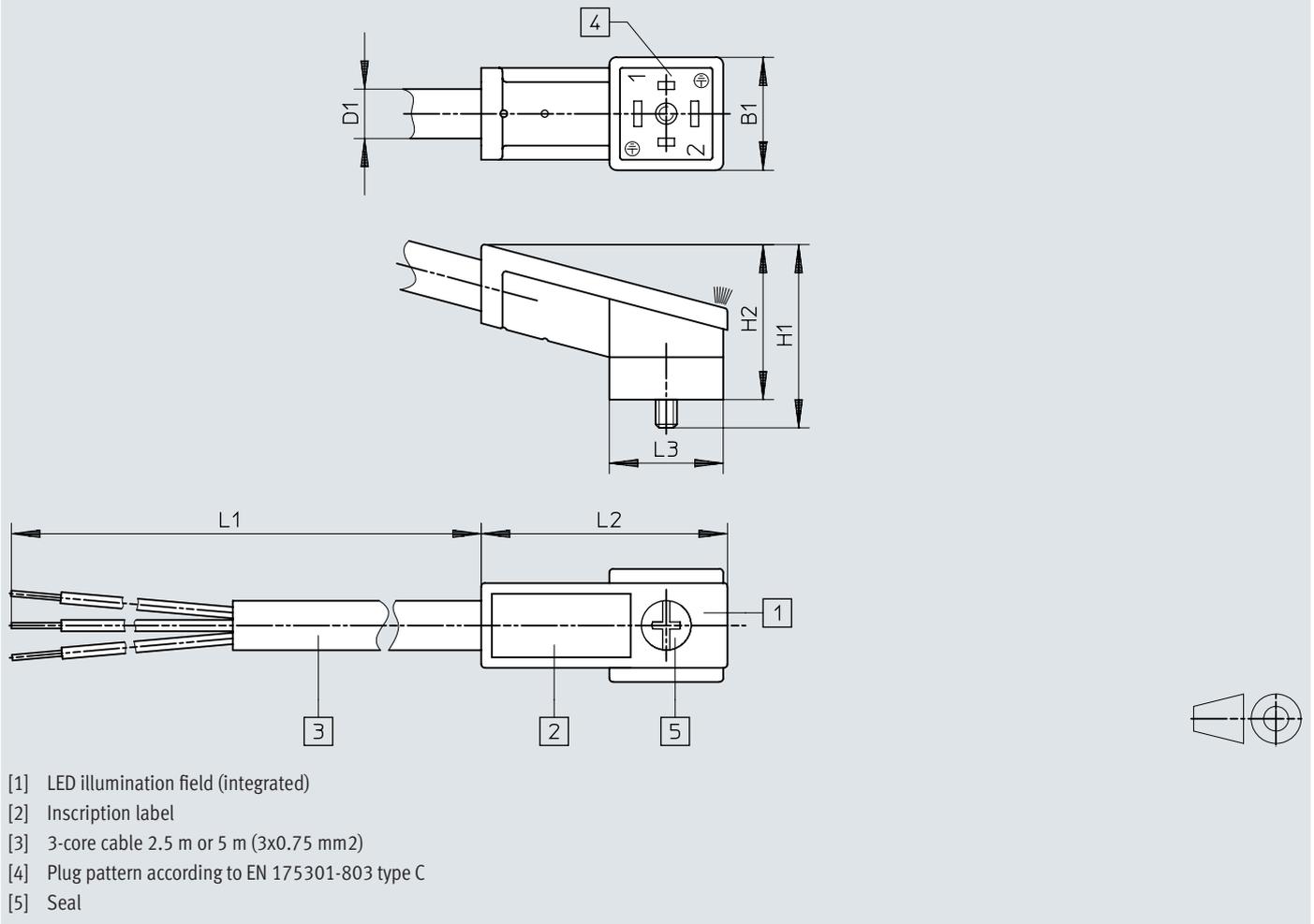
- [1] LED illumination field (only with 24 V)
- [2] Inscription label holder ASCF with inscription label ASLR-L-432 (scope of delivery)
- [3] 3-core cable (3x 0.5 mm<sup>2</sup>)
- [4] Plug pattern according to EN 175301-803 Type C
- [5] Seal

	D1	D2	L1	L2	H1	H2	B1
KMEB-1-...-2.5	5,2	2,5	2500	29,1	19,3	4	16
KMEB-1-...-5	5,2	2,5	5000	29,1	19,3	4	16
KMEB-1-...-10	5,2	2,5	10000	29,1	19,3	4	16

## Dimensions

Dimensions – KMEB-2

Download CAD data [www.festo.com](http://www.festo.com)

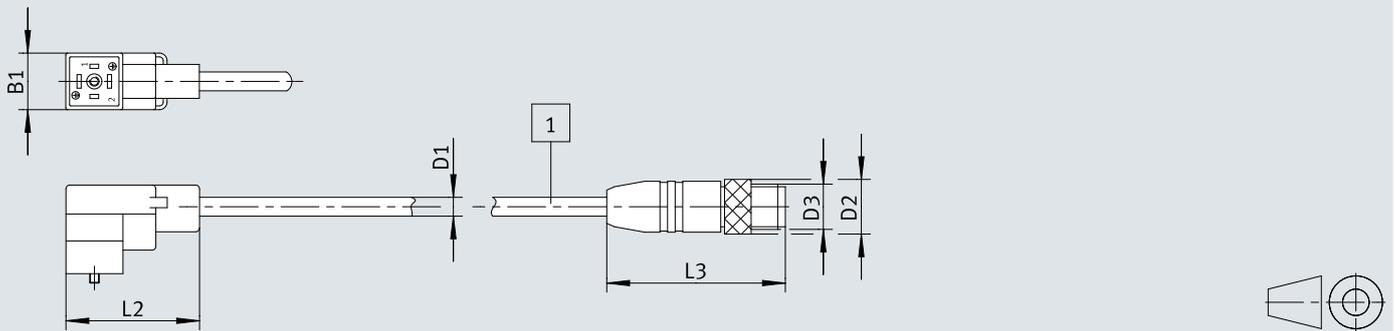


	B1	D1	H1	H2	L1	L2	L3
KMEB-2-...-2.5	16	6,2	26	22	2550	34,6	16
KMEB-2-...-5	16	6,2	26	22	5050	34,6	16

## Dimensions

### Dimensions – KMEB-2-24-M12-LED

Download CAD data [www.festo.com](http://www.festo.com)



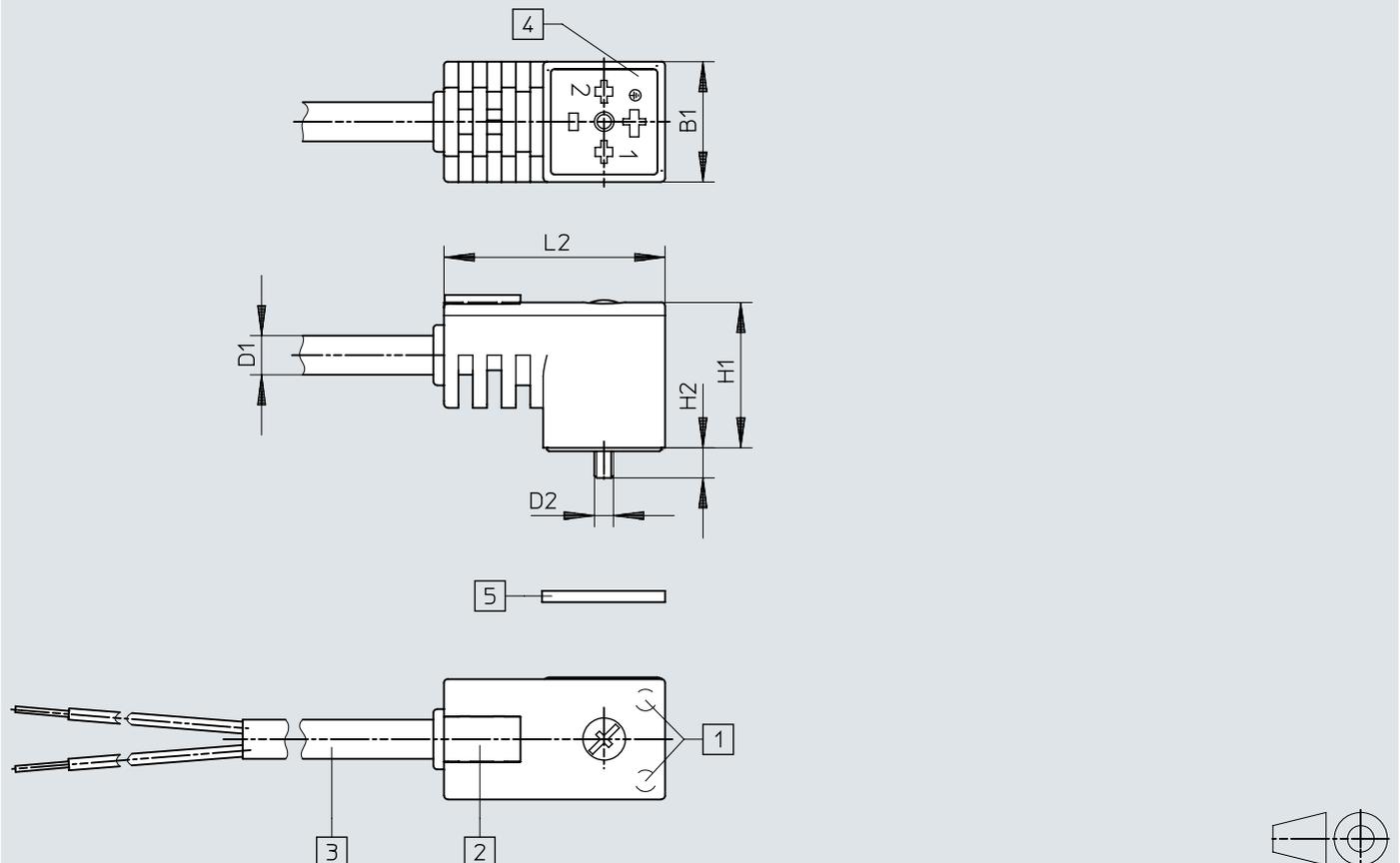
[1] 3-core cable 0.5 m (3x0.5 mm<sup>2</sup>)

	B1	D1 ∅	D2 ∅	D3	L2	L3
KMEB-2-24-0,5-LED	16	4,6	14,5	M12x1	35,2	47

## Dimensions

### Dimensions – KMEB-3

Download CAD data [www.festo.com](http://www.festo.com)



- [1] LED illumination field
- [2] Inscription area
- [3] 2-core cable
- [4] Plug pattern according to EN 175301-803 type C
- [5] Seal

	B1	D1 ∅	D2	H1	H2	L2
KMEB-1-24-2,5-LED	16	5,2	M2,5	19,3	4	29,1

## Ordering data

### Ordering data – 2-pin socket

	Nominal operating voltage DC	Signal status display	Cable length	Product weight	Part no.	Type
	24 V		2.5 m	120 g	<b>547270</b>	<b>KMEB-3-24-2.5</b>
			5 m	230 g	<b>547271</b>	<b>KMEB-3-24-5</b>
		Yellow LED	2.5 m	120 g	<b>547268</b>	<b>KMEB-3-24-2.5-LED</b>
			5 m	230 g	<b>547269</b>	<b>KMEB-3-24-5-LED</b>

### Ordering data – 3-pin socket

	Nominal operating voltage DC	Nominal operating voltage AC	Signal status display	Cable length	Product weight	Part no.	Type
		230 V		2.5 m	125 g	<b>151690</b>	<b>KMEB-1-230AC-2.5</b>
				5 m	230 g	<b>151691</b>	<b>KMEB-1-230AC-5</b>
	24 V		Yellow LED	2.5 m	125 g	<b>151688</b>	<b>KMEB-1-24-2.5-LED</b>
				5 m	230 g	<b>151689</b>	<b>KMEB-1-24-5-LED</b>
				10 m	460 g	<b>193457</b>	<b>KMEB-1-24-10-LED</b>

### Ordering data – 4-pin socket

	Nominal operating voltage AC	Nominal operating voltage DC	Switching position indicator	Cable length	Product weight	Part no.	Type
		24 V	LED	2.5 m	200 g	<b>174844</b>	<b>KMEB-2-24-2,5-LED</b>
				5 m	400 g	<b>174845</b>	<b>KMEB-2-24-5-LED</b>
	230 V			2.5 m	200 g	<b>174846</b>	<b>KMEB-2-230-2,5</b>
				5 m	400 g	<b>174847</b>	<b>KMEB-2-230-5</b>

### Ordering data – Socket, 5-pin

	Nominal operating voltage DC	Switching position indicator	Cable length	Part no.	Type
	24 V	LED	0.5 m	<b>177677</b>	<b>KMEB-2-24-M12-0,5-LED</b>

### Accessories

Inscription label holder						
	Type of mounting	Function	Size of pack	Cable diameter	Part no.	Type
	Clip	Inscription label holder	100	4.2 ... 5.6 mm	<b>8143238</b>	<b>NEAU-LH-4</b>