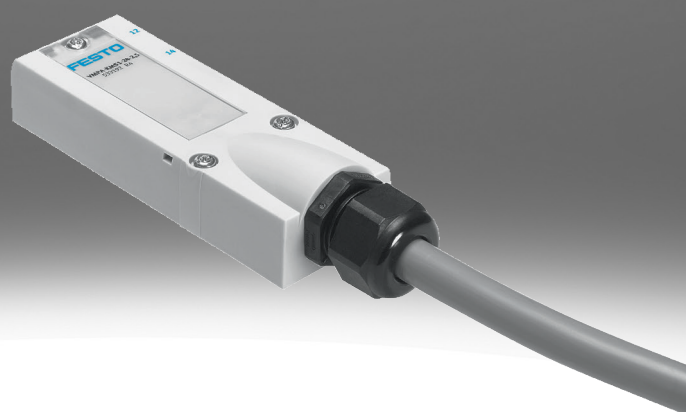


Connecting cable VMPA-KM, VMPAL-KM

FESTO



Type code

001	Series	
VMPA	Solenoid valve	
VMPAL	Solenoid valve	

002	Use	
KM	Cable for multi-pin plug connection	
KMS	Cable for multi-pin plug connection	

003	Variant	
	None	
1	Variant 1	
2	Variant 2	

004	Cable characteristic	
	Standard	
SK	Suitable for energy chains	

005	Cable outlet	
	Standard	
V	Front	
S	On the side	

006	Electrical connection 1, number of pins/wires	
	Standard	
SD25	25-pin	
SD44	44-pin	

007	Electrical connection 2 number of pins/wires	
	Standard	
8	10-pin	
24	25-pin	

008	Degree of protection, electrical system	
	Standard	
IP67	IP67	

009	Cable length	
	0.5 ... 30 m	
2,5	2.5 m	
2.5	2.5 m	
5,0	5 m	
10,0	10 m	

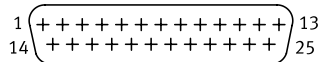
010	Material of cable sheath	
	Cable sheath made of PUR or PVC	
PUR	Cable sheath made of PUR	

Datasheet

General technical data, VMPA-KMS

Variant	Variant 1		Variant 2	
Electrical connection 2 number of pins/wires	10-pin	25-pin	10-pin	25-pin
Based on standard	DIN 41652			
Cable designation	With accessories	Without inscription label holder	With accessories	Without inscription label holder
Frequency of connection	50			

Technical data – Electrical connection 1, VMPA-KMS



Variant	Variant 1		Variant 2	
Electrical connection 2 number of pins/wires	10-pin	25-pin	10-pin	25-pin
Electrical connection 1, function	Field device side			
Electrical connection 1, connection type	Socket			
Electrical connection 1, cable outlet	Angled			
Electrical connection 1, design	Angular			
Electrical connection 1, connector system	Sub-D			
Electrical connection 1, number of connections/cores	25			
Electrical connection 1, used connections/cores	9	25	9	25
Electrical connection 1, type of mounting	3x M3 screws			
Cable fitting	M20x1.5			

Technical data – Electrical connection 2, VMPA-KMS

Variant	Variant 1		Variant 2	
Electrical connection 2 number of pins/wires	10-pin	25-pin	10-pin	25-pin
Electrical connection 2, function	Controller side			
Electrical connection 2, connection type	Cable			
Electrical connection 2, connector system	Open end			
Electrical connection 2, number of connections/cores	10	25	10	25
Electrical connection 2, used connections/cores	9	25	9	25
Wire ends	Cut off bluntly			

Technical data – Electrical, VMPA-KMS

Nominal operating voltage DC	24 V
Operational voltage range DC	0 ... 30 V
Permissible current load	3 A
Immunity to surge	1 kV
Pollution degree	3

Datasheet

Technical data – Cable, VMPA-KMS

Variant	Variant 1		Variant 2	
Electrical connection 2 number of pins/wires	10-pin	25-pin	10-pin	25-pin
Cable diameter	7.15 mm	11.4 mm	7 mm	10.8 mm
Cable diameter tolerance	± 0.3 mm	± 0.25 mm	–	
Cable characteristic	Standard		Suitable for energy chains	
Bending radius, fixed cable	28.4 ... 28.6 mm	44.8 mm	21 mm	28.6 ... 29.4 mm
Bending radius, moving cable	71.5 mm	112 mm	35 mm	49 mm
Test conditions cable	Test conditions on request			
Cable structure	10 x 0.34 mm ²	25 x 0.34 mm ²	10 x 0.25 mm ²	25 x 0.25 mm ²
Nominal cross section conductor	0.34 mm ²		0.25 mm ²	

Materials, VMPA-KMS

Variant	Variant 1	Variant 2
Material housing	PA	
Housing colour	grey	
Material cable sheath	PVC	TPE-U(PUR)
Cable sheath colour	Grey	
Material union nut	PA	
Material seals	CR, NBR	
Material electrical contact	Gold-plated copper alloy	
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B2-L	

Operating and environmental conditions, VMPA-KMS

Material cable sheath	PVC	TPE-U(PUR)
Ambient temperature	-25 ... 80°C	
Ambient temperature with moving cable	-5 ... 70°C	-25 ... 80°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions	
Degree of protection	IP65, To IEC 60529	
Note on degree of protection	In assembled state	

¹⁾ More information www.festo.com/x/topic/crc

²⁾ More information www.festo.com/catalogue/... → Support/Downloads.

³⁾ More information www.festo.com/catalogue/... → Support/Downloads.

Technical data – Electrical connection 1, VMPAL-KM

Electrical connection	Cable with plug
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Technical data – Cable, VMPAL-KM

Cable characteristic	Standard	Suitable for energy chains
Degree of protection, electrical system	IP67	
Cable diameter	9.6 ... 12.5 mm	12.5 mm
Min. cable bending radius	63 ... 122 mm	63 mm
Cable structure	25 x 0.34 mm ² , 36 x 0.25 mm ²	25 x 0.34 mm ²

Materials, VMPAL-KM

Cable characteristic	Standard	Suitable for energy chains
Material cable sheath	PVC, TPE-U(PU)	TPE-U(PU)
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

Datasheet

Operating and environmental conditions, VMPAL-KM

Ambient temperature with moving cable	-5 ... 80°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
CE mark (see declaration of conformity) ²⁾	In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	To UK RoHS instructions
Degree of protection	IP67 To IEC 60529

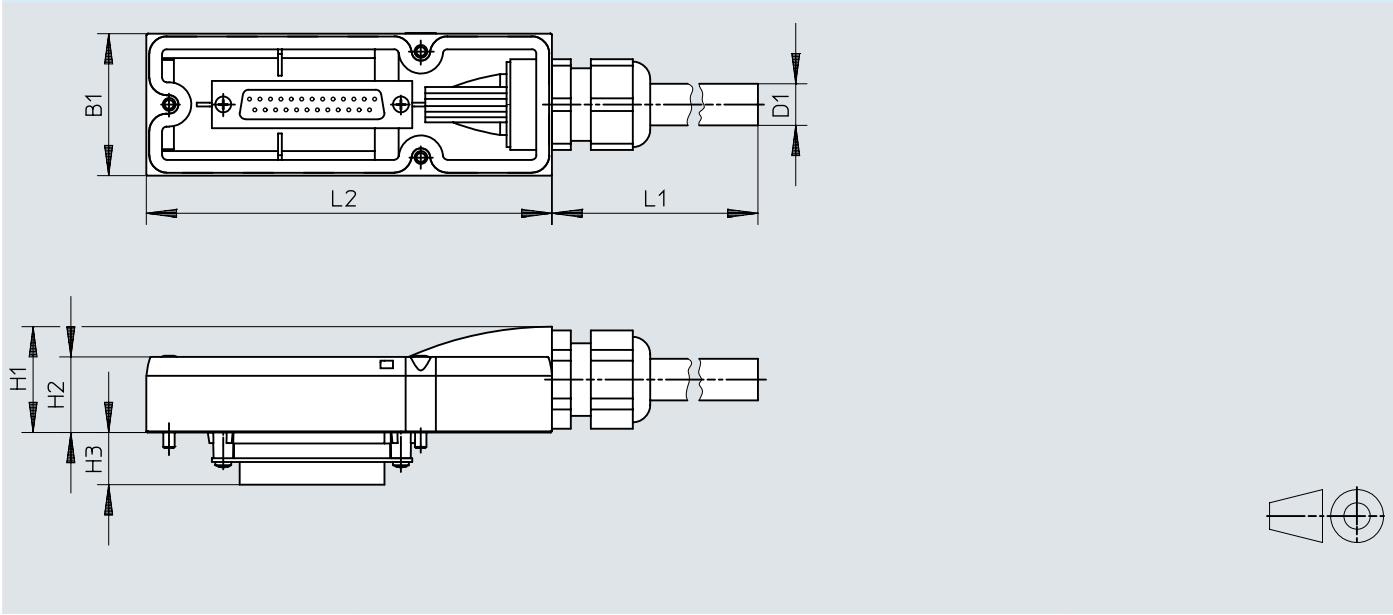
1) More information www.festo.com/x/topic/crc

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

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

Dimensions

Dimensions – Connecting cable VMPA-KMS [Download CAD data](#) www.festo.com



	B1	H1	H2	H3	L1	L2
VMPA-KMS...	37,55	28	20	13,8	107,3	26

Ordering data

VMPA-KMS					
	Description	Cable length	Product weight	Part no.	Type
	Connecting cable for multi-pin plug connection of valve terminal MPA-S	2.5 m	237 g	533504	VMPA-KMS2-8-2.5-PUR
			287 g	533195	VMPA-KMS1-8-2.5
			411 g	533501	VMPA-KMS2-24-2.5-PUR
			563 g	533192	VMPA-KMS1-24-2.5
		5 m	460 g	533505	VMPA-KMS2-8-5-PUR
			510 g	533196	VMPA-KMS1-8-5
			910 g	533502	VMPA-KMS2-24-5-PUR
			1,062 g	533193	VMPA-KMS1-24-5
		10 m	906 g	533506	VMPA-KMS2-8-10-PUR
			956 g	533197	VMPA-KMS1-8-10
			1,908 g	533503	VMPA-KMS2-24-10-PUR
			2,055 g	533194	VMPA-KMS1-24-10

VMPAL-KM					
	Description	Cable length	Product weight	Part no.	Type
	Connecting cable for multi-pin plug connection of valve terminal MPA-L	0.5 ... 30 m		562390	VMPAL-KM-V-SD44-IP67-
				562394	VMPAL-KMSK-S-SD25-IP67-
				562391	VMPAL-KMSK-V-SD25-IP67-
				562389	VMPAL-KM-V-SD25-IP67-
				562392	VMPAL-KM-S-SD25-IP67-
				562393	VMPAL-KM-S-SD44-IP67-
		2.5 m	462 g	560422	VMPAL-KM-V-SD44-IP67-2,5
			605 g	560410	VMPAL-KMSK-V-SD25-IP67-2,5
			640 g	560416	VMPAL-KM-V-SD25-IP67-2,5
			467 g	560425	VMPAL-KM-S-SD44-IP67-2.5
			610 g	560413	VMPAL-KMSK-S-SD25-IP67-2.5
			645 g	560419	VMPAL-KM-S-SD25-IP67-2.5
		5 m	832 g	560423	VMPAL-KM-V-SD44-IP67-5
			837 g	560426	VMPAL-KM-S-SD44-IP67-5
			1,120 g	560411	VMPAL-KMSK-V-SD25-IP67-5
			1,125 g	560414	VMPAL-KMSK-S-SD25-IP67-5
			1,190 g	560417	VMPAL-KM-V-SD25-IP67-5
			1,195 g	560420	VMPAL-KM-S-SD25-IP67-5
		10 m	1,572 g	560424	VMPAL-KM-V-SD44-IP67-10
			1,577 g	560427	VMPAL-KM-S-SD44-IP67-10
			2,150 g	560412	VMPAL-KMSK-V-SD25-IP67-10
			2,155 g	560415	VMPAL-KMSK-S-SD25-IP67-10
			2,290 g	560418	VMPAL-KM-V-SD25-IP67-10
			2,295 g	560421	VMPAL-KM-S-SD25-IP67-10