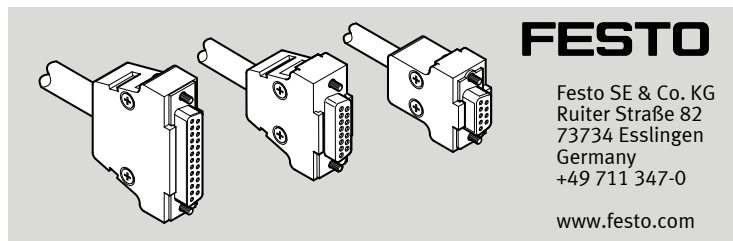


KMP6

Connecting cable



Instructions | Assembly

8116213
2019-11a
[8116215]



Translation of the original instructions

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1 Applicable documents

All available documents for the product → www.festo.com/pk.

2 Safety

2.1 Safety Instructions

- Do not connect or disconnect plug connector when powered.
- Only assemble the product on components that are in a condition to be safely operated.
- Assembly and installation should only be carried out by qualified personnel. These personnel have electrical training or a relevant qualification.

2.2 Intended use

Connection of a CPV-SC valve terminal to a higher-order controller.

3 Configuration

3.1 Product Design

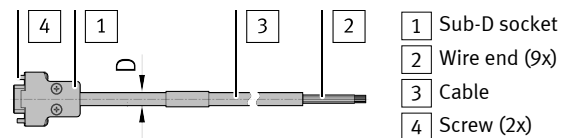


Fig. 1 KMP6-9P-8...

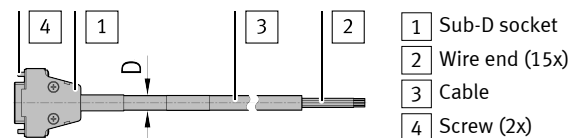


Fig. 2 KMP6-15P-12...

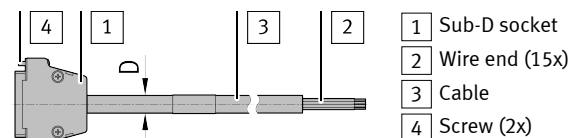


Fig. 3 KMP6-25P-12...

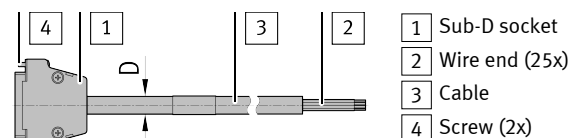


Fig. 4 KMP6-25P-20...

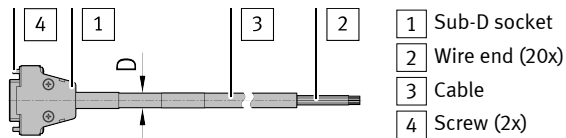


Fig. 5 KMP6-26P-16...

3.2 Contact Assignment

Electrical connection 1 Field device side					Electrical connection 2 Controller side
1) Socket Pin					2) Wire ends Wire colour ¹⁾
5 9	8 15	13 25	14 14	9 18 26	1 10 19
KMP6-9P-8...	KMP6-15P-12...	KMP6-25P-12...	KMP6-25P-20...	KMP6-26P-16...	
1	1	1	1	1	WH
2	2	2	2	2	BN
3	3	3	3	3	GN
4	4	4	4	4	YE
5	5	5	5	5	GY
6	6	6	6	6	PK
7	7	7	7	7	BU
8	8	8	8	8	RD
9	9	9	9	9	BK
–	10	10	10	10	VT
–	11	11	11	11	GNPK
–	12	12	12	12	RDBU
–	13	23	13	13	GNWH
–	14	24	14	14	BNGN
–	15	25	15	15	YEWB
–	–	–	16	16	BNYE
–	–	–	17	23	GYWH
–	–	–	18	24	BNGY
–	–	–	19	25	WHPK
–	–	–	20	26	BNPK
–	–	–	21	–	BUWH
–	–	–	22	–	BNBU
–	–	–	23	–	RDWH
–	–	–	24	–	BNRD
–	–	–	25	–	BKWH

1) Colour code in accordance with IEC 60757:1983-01

Tab. 1 Contact Assignment

4 Mounting

4.1 Mounting of Electrical Connection 1

1. Align socket [1] to match plug.
2. Connect socket [1] to the plug.
3. Tighten screws [4]. Tightening torque: 0.6 Nm ± 20 %

4.2 Mounting of Electrical Connection 2

1. Shorten and pre-assemble cable sheath and wire ends as needed.
2. Connect the wires in accordance with the contact assignment.

4.3 Strain Relief

Strain Relief for Movable Wiring

- Fix the cable sheath in the area of the wire ends [2].
↳ No force may be transferred to the cables.

4.4 Wiring

Characteristics	Cable characteristic	Wiring
KMP6	Standard	Flexible (freely movable, unguided wiring) The line can be dynamically bent, but not for robots or energy chains.

Tab. 2 Wiring

5 Technical data

KMP6 -...		9P- 8...	15P- 12...	25P- 12...	25P- 20...	26P- 16...
Cable characteristic		Standard				
Cable composition	[mm ²]	8x0.34 + 1x 0.5	15x0.34	15x0.34	20x0.25 + 5x 0.34	20x0.25
Cable diameter	D [mm]	7.6	8.6	8.6	10.3	8.8
Current rating at 40 °C	[A]	2.8				
Surge resistance	[kV]	1				
Operating voltage range						
DC	U _B [V]	0 ... 30				
Bending radius						
Fixed cable installation	R [mm]	≥ 76	≥ 86	≥ 86	≥ 103	≥ 88
Flexible cable installation	R [mm]	≥ 114	≥ 129	≥ 129	≥ 103	≥ 132
Ambient temperature						
Fixed cable installation	[°C]	-25 ... +70				
Flexible cable installation	[°C]	-5 ... +70				
Material						
Cable sheath		PVC				
Electrical connection 1						
Function		Field device side				
Connection type		Socket				
Connection technology		Sub-D				
Type of mounting		2x screw 4-40 UNC				
Degree of protection		IP40 In assembled state				
Electrical connection 2						
Function		Controller side				
Connection type		Cable				
Connection technology		Open end				
Wire ends		Cut off bluntly				

Tab. 3 Technical data