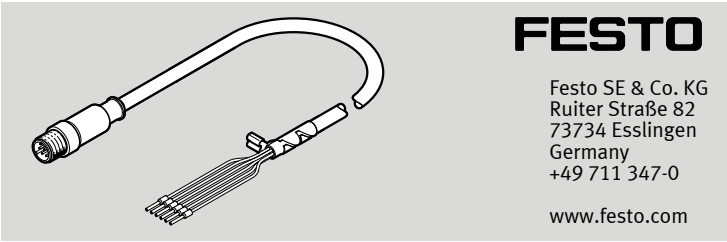


NEBM-SM12G8-E-...-Q5-LE6
Motor cable



Instructions | Assembly

8116064
2019-08c
[8116066]
CE



Translation of the original instructions

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 motor EMMS-ST to suitable controller

3 Configuration

3.1 Product design

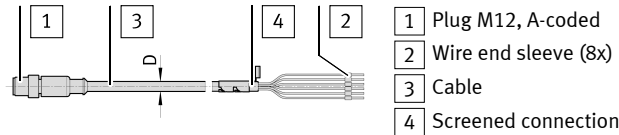


Fig. 1

3.2 Contact assignment

Table with 3 columns: Electrical connection 1 Field device side, Allocation, and Electrical connection 2 Controller side. It maps 8 pins to specific strings (A, B, GND, etc.) and controller terminals (WH, BN, GN, YE, GY, PK).

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 the plug 1 to match the socket.
2. Insert the plug 1 into the socket.
3. Tighten the screw-type lock of the plug 1. Tightening torque: 0.1 Nm ± 20 %

4.2 Mounting of electrical connection 2

- 1. Connect the wires in accordance with the contact assignment.
2. Clamp the screened connection 4 into the spring clip of the controller.

4.3 Wiring

Table with 3 columns: Feature, Cable characteristic, Wiring. Row 1: -E-, Suitable for energy chains, In energy chain or flexible.

Tab. 2 Wiring

4.4 Mounting in energy chain

- 1. Lay the chain out lengthwise.
2. Place the cables in the chain, making sure they are not twisted.
3. Separate cables from each other using separators/drill holes.
4. Do not connect cables together.

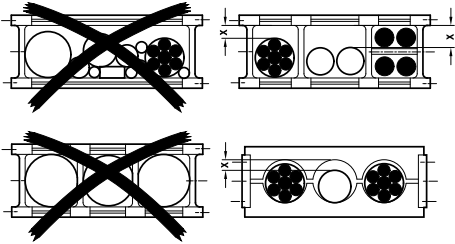


Fig. 2

- 5. Maintain space X. X > 10 % of the cable diameter D.
If the chain is suspended vertically: increase the space X.

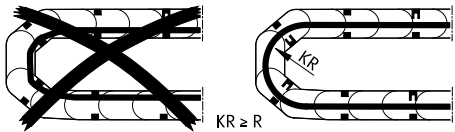


Fig. 3

- 6. Align chain in the operating position:
- Make sure that the radius is greater than the bending radius R of the cables.
- Cables can move freely in the bending radius KR of the energy chain.
- Cables are not forced through the chain.
7. Mount the energy chain -> corresponding instructions.
8. Fasten cables:
- At both ends of the chain in case of short energy chains
- Only at the driver end in the case of long, sliding energy chains

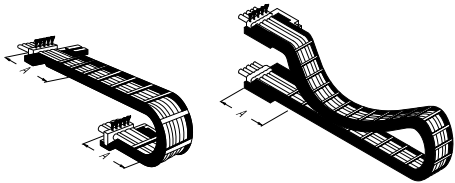


Fig. 4

- 9. Do not bend cables all the way to the fastening point.
- Mounting space A between the fastening point and bending movement is observed.

NOTICE!

Damage to cables if the chain breaks.

- Replace cables after a chain break.

NOTICE!

Malfunction and material damage due to vertically suspended cables.

- The cables stretch.
• Regularly check the length of the cables.
• Readjust the cables if required.

NEBM-SM12G8-E-....Q5-LE6		
Cable characteristic		Suitable for energy chains
Cable composition	[mm²]	6x0.34
Shielding		Shielded
Cable diameter	D [mm]	6.2
Mounting space	A [mm]	≥ 124
Operating voltage range		
DC	U _B [V]	0 ... 72
Bending radius		
Fixed cable installation	R [mm]	≥ 31
Flexible cable installation	R [mm]	≥ 62
Ambient temperature		
Fixed cable installation	[°C]	−40 ... +80
Flexible cable installation	[°C]	−5 ... +80
Material		
Cable sheath		TPE-U(PUR)
Electrical connection 1		
Function		Field device side
Connection type		Plug connector
Connection technology		M12x1 A-coded to EN 61076-2-101
Type of mounting		Screw-type lock
Degree of protection		IP65 In assembled state
Electrical connection 2		
Function		Controller side
Connection type		Cable
Connection technology		Open end
Wire ends		Wire end sleeve

Tab. 3 Technical data