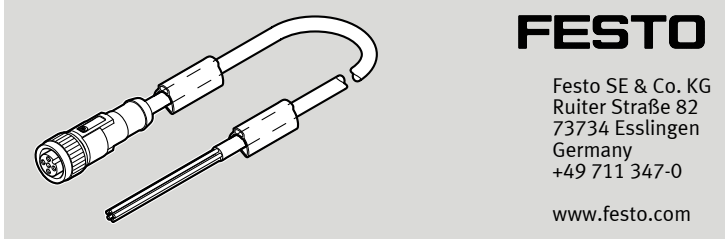


NEBS-M12G5-ES-...-LE5

Connecting cable



Instructions | Assembly

8094225
2018-10
[8094227]



Translation of the original instructions

1 Applicable documents

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

Document	Product	Contents
Instructions	Sensor e. g. SKDA-...-AB, SBS...	Operating
Instructions	Servo Press Kit YJKP	Assembly, Installation

Tab. 1

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

Connecting a sensor with the controller.
Sensors: e. g. image processing sensors SBS..., sensor SKDA-...-AB of the Servo Press Kit YJKP.

3 Configuration

3.1 Product design

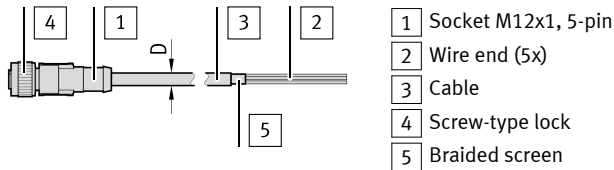


Fig. 1 NEBS-M12G5-_-LE5

3.2 Contact assignment

Field device side	Pin	Controller side
1 Socket		2 Wire ends ¹⁾
	1	BN
	2	WH
	3	BU
	4	BK
	5	GY
		Braided screen

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

Tab. 2 Contact assignment

4 Mounting

4.1 Assembly, field device side

- Align socket 1 to match plug.
- Connect socket 1 to the plug.
- Tighten the screw-type lock of the socket 1. Tightening torque: 0.3 Nm ± 67 %

4.2 Assembly, controller side

- Shorten and pre-assemble cable sheath and wire ends as needed.
- Connect the wires in accordance with the contact assignment.
- Connect braided screen 5 across a large area with low-resistance contact to ground potential.

4.3 Mounting in energy chain

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

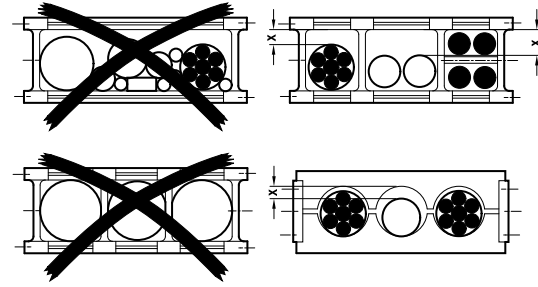


Fig. 2

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

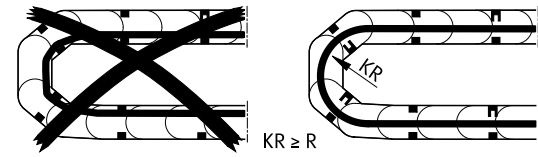


Fig. 3

- Align chain in the operating position:
 - Make sure that the radius is greater than the bending radius R of the cables → 5 Technical data.
 - Cables can move freely in the bending radius KR of the energy chain. Cables are not forced through the chain.
- Mount the energy chain → corresponding instructions.
- 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

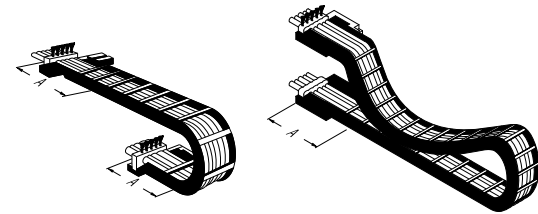


Fig. 4

- 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.

5 Technical data

NEBS-M12G5-ES-...-LE5		
Cable characteristic		Suitable for energy chains
Cable composition	[mm ²]	5x0.34
		Shielded
Shielding		Yes
Cable diameter	D [mm]	5.25
Mounting space	A [mm]	> 105
Current rating at 40 °C	[A]	4
Surge resistance	[kV]	1.5
Operating voltage range		
AC	U _B [V]	0 ... 48
DC	U _B [V]	0 ... 60
Degree of protection		
Degree of protection		IP65 IP67
Note on degree of protection		In assembled state
Bending radius		
Fixed cable installation	R [mm]	≥ 26
Flexible cable installation	R [mm]	≥ 52
Ambient temperature		
Fixed cable installation	[°C]	-40 ... +80
Flexible cable installation	[°C]	-25 ... +60
Material		
Cable sheath		TPE-U(PUR)
Insulating sheath		PP
Electrical connection 1		
Function		Field device side
Connection type		Socket
Connection technology		M12x1 A-coded to EN 61076-2-101
Type of mounting		Screw-type lock
Electrical connection 2		
Function		Controller side
Connection type		Cable
Connection technology		Open end
Wire ends		Cut off bluntly

Tab. 3 Technical data