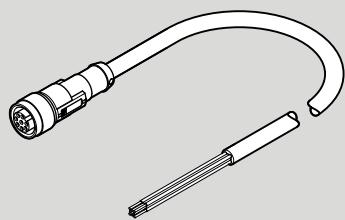


NEBC-M12G8/W8-E-...-LE8

Connecting cable

**FESTO**

Festo SE & Co. KG
Ruiter Straße 82
73734 Esslingen
Germany
+49 711 347-0
www.festo.com

Instructions || Assembly

8109777
2019-04
[8109779]



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

Connecting cable for controllers with degree of protection IP65/67.

3 Configuration

3.1 Product design

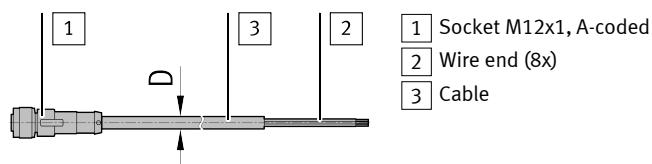


Fig. 1 NEBC-M12G8-E-...-LE8

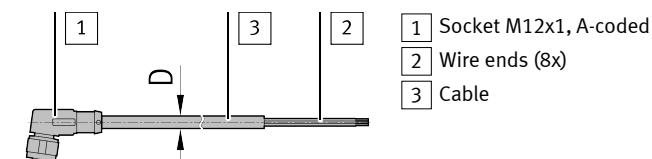


Fig. 2 NEBC-M12W8-E-...-LE8

3.2 Contact assignment

Electrical connection 1 Field device side		Electrical connection 2 Controller side
1	Socket	2 Wire ends ¹⁾
2		1 WH
3		2 BN
4		3 GN
5		4 YE
6		5 GY
7		6 PK
8		7 BU
		8 RD

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 the screw-type lock of the socket 1. Tightening torque: 0.4 Nm ± 55 %

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 Wiring

Characteristic	Cable characteristic	Wiring
-E-	Suitable for energy chains	In energy chain or flexible

Tab. 2 Wiring

4.4 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.

4.5 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.

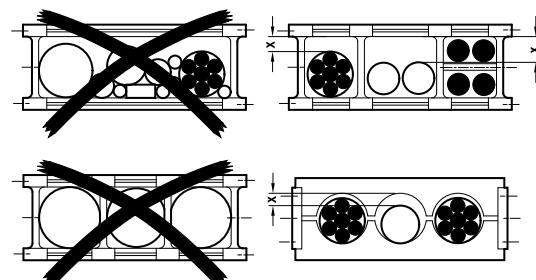


Fig. 3

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

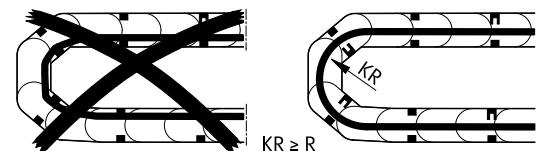


Fig. 4

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

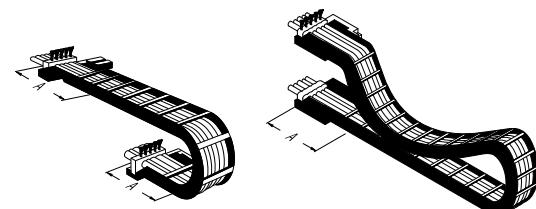


Fig. 5

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.

NEBC-M12G8/W8-E-...-LE8

Cable characteristic		Suitable for energy chains
Cable composition		[mm ²] 8x0.25
Shielding		–
Cable diameter		D [mm] 6
Mounting space		A [mm] ≥ 120
Current rating at 40 °C		[A] 2
Surge resistance		[kV] 0.8
Operating voltage range		
AC	U _B [V]	0 ... 30
DC	U _B [V]	0 ... 30
Bending radius		
Fixed cable installation	R [mm]	≥ 30
Flexible cable installation	R [mm]	≥ 30
Ambient temperature		
Fixed cable installation	[°C]	–25 ... +90
Flexible cable installation	[°C]	–25 ... +90
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	
Degree of protection	IP65, IP67 In assembled state	
Electrical connection 2		
Function	Controller side	
Connection type	Cable	
Connection technology	Open end	
Wire ends	Sheath removed	

Tab. 3 Technical data