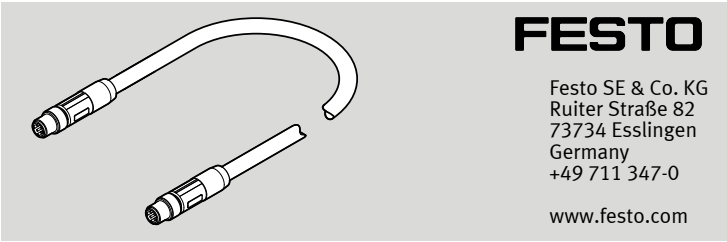


NEBC-D8G4/W4-E...-D8G4/W4-ET

Connecting cable



Assembly instructions

8134746
2020-07a
[8134748]



Translation of the original instructions

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1 Applicable Documents

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

2 Safety

2.1 Safety Instructions

- Do not connect or disconnect plug connector when powered.
- Only mount the product on components that are in a condition to be safely operated.

2.2 Intended use

Cable for data transmission for internal system communication.

3 Configuration

3.1 Product design

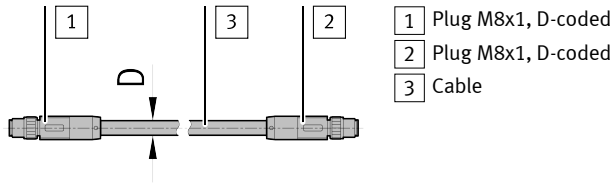


Fig. 1 NEBC-D8G4-E...-D8G4-ET

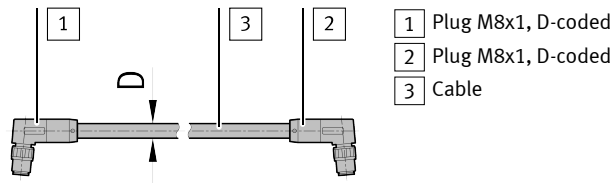


Fig. 2 NEBC-D8W4-E...-D8W4-ET

3.2 Contact assignment

Electrical connection 1 Controller side	Electrical connection 2 Controller side
1 Plug connector	2 Plug connector

Tab. 1 Contact assignment

4 Assembly

4.1 Application of assembly tools

- Use a hook spanner with torque function.

4.2 Mounting of electrical connection 1

- Align the plug 1 to match the socket.
- Insert the plug 1 into the socket.
- Tighten the screw-type lock of the plug 1. Tightening torque: 0.3 Nm ± 10 %

4.3 Mounting of electrical connection 2

- Align the plug 2 to match the socket.
- Insert the plug 2 into the socket.
- Tighten the screw-type lock of the plug 2. Tightening torque: 0.3 Nm ± 10 %

4.4 Wiring

Character-istics	Cable characteristics	Wiring
-E-	Suitable for energy chains	In energy chain or flexible

Tab. 2 Wiring

4.5 Strain relief

Strain relief for movable wiring

- Install the strain relief and mountings over a wide area to prevent damage to the interior structure and the exterior shell.

4.6 Mounting in energy chain

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

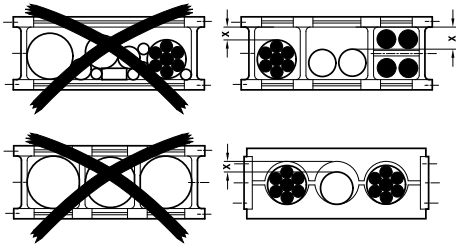


Fig. 3

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

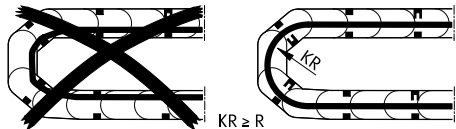


Fig. 4

- 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.
- Mount the energy chain → corresponding instructions.
- Fasten cables:
 - with short energy chains (length < 1 m) at both ends of the chain
 - with long sliding energy chains (length > 1 m) only at the driver end

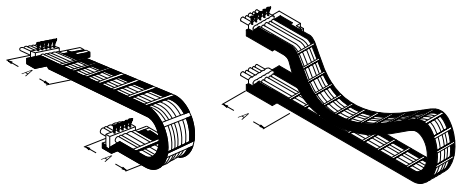


Fig. 5

- Do not move cables all the way to the fastening point.
Mounting space A between the fastening point and bending movement is maintained.

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

NEBC-D8G4/W4-E....D8G4/W4-ET			
Cable characteristic			Suitable for energy chains
Cable composition	[mm²]	1x (4xAWG22)	
Shielding		Shielded	
Cable diameter	D	[mm]	6.3
Mounting space	A	[mm]	≥ 100
Current rating at 40 °C		[A]	3
Surge resistance		[kV]	1.5
Operating voltage range DC	U _B	[V]	0 ... 30
Bending radius			
Fixed cable installation	R	[mm]	≥ 20
Flexible cable installation	R	[mm]	≥ 75
Ambient temperature			
Fixed cable installation		[°C]	−20 ... +60
Flexible cable installation		[°C]	−5 ... +60
Material			
Cable sheath		TPE-U(PUR)	
Insulating sheath		PP	
Electrical connection 1			
Function		Controller side	
Connection type		Plug connector	
Connection technology		M8x1 D-coded in accordance with EN 61076-2-114	
Type of mounting		Screw-type lock with longitudinal knurl	
Degree of protection		IP65, IP67 In assembled state	
Electrical connection 2			
Function		Controller side	
Connection type		Plug connector	
Connection technology		M8x1 D-coded in accordance with EN 61076-2-114	
Type of mounting		Screw-type lock with longitudinal knurl	
Degree of protection		IP65, IP67 In assembled state	

Tab. 3 Technical data