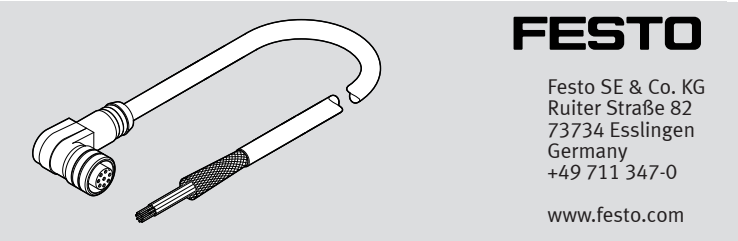


NEBU-M12W8-K-...-LE8

Plug socket with cable



Assembly instructions

8208433
2024-03a
[8208435]



Original instructions

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1 Other applicable documents

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

2 Safety

2.1 Safety instructions

- Before working on the product: Switch off the power supply, ensure that it is off and secure it against being switched on again.

2.2 Intended use

The plug socket with cable connects a field device to a controller.

2.3 Training of qualified personnel

Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. The qualified personnel are trained in electrical engineering.

3 Additional information

- Contact the regional Festo contact if you have technical problems → www.festo.com.
- Accessories → www.festo.com/catalogue.

4 Structure

4.1 Product design

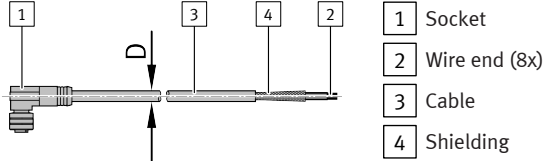


Fig. 1: Product design

4.2 Contact assignment

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

1) Colour code in accordance with IEC 60757:2021-06

Tab. 1: Contact assignment

5 Mounting

5.1 Mounting electrical connection 1

- Align the socket [1].
- Plug the socket [1] into the connection and click it into place.
- Tighten the screw-type lock of the socket [1]. Tightening torque: 0.5 Nm ± 20%

5.2 Strain relief for electrical connection 1

- Attach the cable sheath in the area in front of the socket.
No strain on the socket.

5.3 Mounting electrical connection 2

- Do not mount the tin-plated wire ends [2] in screw terminals.
- Wire the tin-plated wire ends [2] in accordance with the contact assignment.
- Connect the shielding [4] in accordance with the EMC instructions.

5.4 Strain relief for electrical connection 2

- Fix the cable sheath in the area in front of the wire ends.
No strain on the wires.

5.5 Wiring

Character-istics	Cable characteristics	Wiring
-K	Standard	Flexible (freely movable, unguided wiring) The cable can be dynamically bent, but not for robots or energy chains.

Tab. 2: Wiring

6 Technical data

NEBU-M12W8-K-...-LE8				
Certificates, declaration of conformity			➔ www.festo.com/sp	
Cable characteristic			Standard	
Cable composition		[mm²]	8x0.25	
Shielding			Shielded	
Cable diameter		D	[mm]	6.3
Current rating at 40 °C		[A]	2	
Surge resistance		[kV]	0.8	
Operating voltage range				
DC	U _B	[V]	0 ... 30	
AC	U _B	[V]	0 ... 30	
Bending radius				
Fixed cable installation		R	[mm]	≥ 32
Flexible cable installation		R	[mm]	≥ 66
Ambient temperature				
Fixed cable installation		[°C]	-25 ... +80	
Flexible cable installation		[°C]	-5 ... +80	
Material				
Cable sheath			TPE-U (PUR)	
Electrical connection 1				
Function			Field device side	
Connection type			Socket	
Connection technology			M12x1 A-coded to EN 61076-2-101	
Number of pins/cores			8	
Assigned pins/cores			8	
Type of mounting			Screw-type lock	
Degree of protection In assembled state			IP67	
Pollution degree in mounted state			3	
Electrical connection 2				
Function			Controller side	
Connection type			Cable	
Connection technology			Open end	
Number of pins/cores			8	
Assigned pins/cores			8	
Wire ends			Tin-plated	

Tab. 3: Technical data