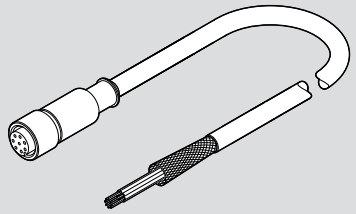
SIM-M12-8GD-...-PU

Plug socket with cable



FESTO

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

www.festo.com

Assembly instructions

8211552
2024-03
[8211554]

8211552

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

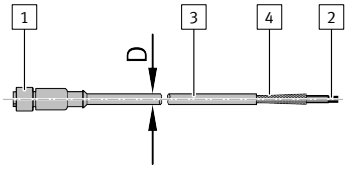
Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. The qualified personnel are trained in electrical engineering.

3 Additional information

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

4 Structure

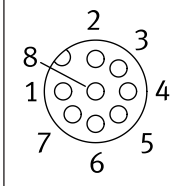
4.1 Product design



1 Socket
2 Wire end (8x)
3 Cable
4 Shielding

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

1. Align the socket [1].
2. Plug the socket [1] into the connection and click it into place.
3. 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

1. Do not mount the tin-plated wire ends [2] in screw terminals.
2. Wire the tin-plated wire ends [2] in accordance with the contact assignment.
3. 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

Characteristics	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

SIM-M12-8GD-...-PU			
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