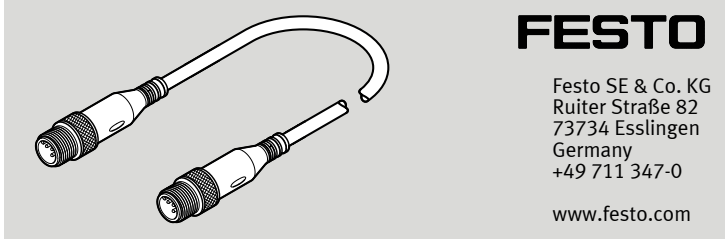


NEBC-M12G5-S-...-M12G5

Connecting cable



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Instructions | Assembly

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8111360

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

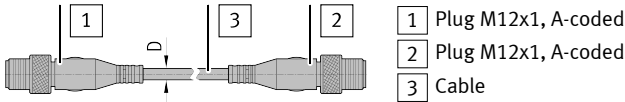
- Do not connect or disconnect plug connector when powered.
- Only assemble the product on components that are in a condition to be safely operated.

2.2 Intended Use

Connecting cable with connection technology M12 for connecting the CPX-IOT gateway to the CPX terminal.

3 Configuration

3.1 Product Design



- 1 Plug M12x1, A-coded
- 2 Plug M12x1, A-coded
- 3 Cable

Fig. 1

3.2 Contact Assignment

Electrical connection 1 Field device side		Signal	Electrical connection 2 Controller side	
Plug connector	Pin		Pin	Plug connector
	1	+24 V	1	
	2	RxD, CPX	4	
	3	0 V	3	
	4	TxD, CPX	2	
	5	FE	5	

Tab. 1 Contact Assignment

4 Mounting

4.1 Mounting of electrical connection 1

1. Align the plug **1** to match the socket.
2. Insert the plug **1** into the socket.
3. Tighten the screw-type lock of the plug **1**. Tightening torque: 0.4 Nm ± 55 %

4.2 Mounting of electrical connection 2

1. Align the plug **2** to match the socket.
2. Insert the plug **2** into the socket.
3. Tighten the screw-type lock of the plug **2**. Tightening torque: 0.4 Nm ± 55 %

4.3 Wiring

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

Tab. 2 Wiring

5 Technical Data

NEBC-M12G5-S-...-M12G5

Cable characteristic		Standard
Cable composition	[mm ²]	4x0.34
Shielding		Shielded
Cable diameter	D [mm]	5
Current rating at 40 °C	[A]	4
Surge resistance	[kV]	0.8
Operating voltage range AC/DC	U _B [V]	0 ... 30
Bending radius		
Fixed cable installation	R [mm]	≥ 25
Flexible cable installation	R [mm]	≥ 50
Ambient temperature		
Fixed cable installation	[°C]	-25 ... +70
Flexible cable installation	[°C]	-5 ... +70
Material		
Cable sheath		TPE-U(PUR)
Insulating sheath		PVC
Electrical connection 1		
Function		Field device side
Connection type		Plug connector
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		Plug connector
Connection technology		M12x1 A-coded to EN 61076-2-101
Type of mounting		Screw-type lock
Degree of protection		IP65, IP67 In assembled state

Tab. 3 Technical Data