

# Connecting cables for controllers

Type codes

NEBC - F12 G 8 - K H - - N - S - F12 G 8

**Function**

NEBC Connecting cable for controllers

**Connection technology, left**

F12 Plug with connecting thread M12, with Festo-specific coding

**Connection technology version, on the left**

G Straight

**Number of pins/wires (left-hand end)**

8 8-pin

**Cable characteristic**

K Standard

**Cable design**

H Hybrid cable

**Line length**

0.25	2.5 m
0.5	0.5 m
1	1 m
1.5	1.5 m
2	2 m
3	3 m

**Cable identification**

N Without inscription label holder

**Connector type**

S Plug connector at both ends

**Connection technology, right**

F12 Plug with connecting thread M12, with Festo-specific coding

**Connection technology version, on the left**

G Straight

**Number of pins/wires (on the right)**

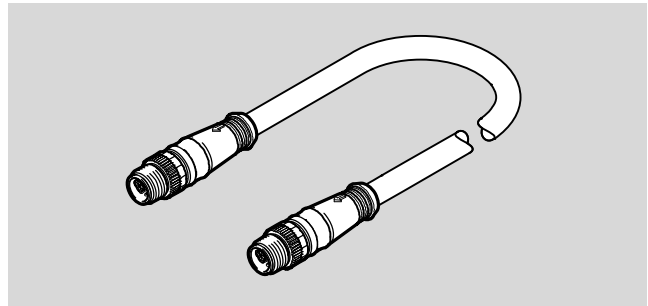
8 8-pin

# Connecting cables for controllers

Technical data

**Connecting cable  
NEBC-F12G8**

- Hybrid cable for common transmission of bus signal and power supply
- Pre-assembled
- Cable lengths 0.25 ... 3 m
- 8-pin
- M12



General technical data	
Based on standard	Dimensions to EN 61076-2-101 EN 61076-2-104
Cable identification	Without inscription label holder
Degree of protection	IP65, IP67
Note on degree of protection	In mounted state
Connection frequency	100

Technical data – Electrical connection 1	
Function	Field device side, controller side
Design	Round
Connection type	Hybrid plug connectors
Cable outlet	Straight
Connection technology	M12x1, with Festo-specific coding
Number of pins/wires	8
Assigned pins/wires	8
Type of mounting	Screw lock with SW14 and longitudinal knurl

Technical data – Electrical		
Operating voltage range	[V]	0 ... 30
Surge resistance	[kV]	0.8
Current rating at 40 °C	[A]	7
Note on current rating	[A]	1.5 A for conductor cross-section 0.14 mm <sup>2</sup>

Technical data – Cables		
Cable characteristic		Standard
Cable test conditions		Test conditions on request
Bending radius, fixed cable installation	[mm]	≥24
Bending radius, flexible cable installation	[mm]	≥56
Cable diameter	[mm]	8
Cable diameter tolerance	[mm]	±0.2
Cable design	[mm <sup>2</sup> ]	(1 x (4 x 0.14)) + 4 x 0.75
Nominal conductor cross section	[mm <sup>2</sup> ]	0.14
	[mm <sup>2</sup> ]	0.75
Special features		Oil resistant

# Connecting cables for controllers

Technical data

Technical data – Electrical connection 2	
Function	Field device side, controller side
Design	Round
Connection type	Hybrid plug connectors
Cable outlet	Straight
Connection technology	M12x1, with Festo-specific coding
Number of pins/wires	8
Assigned pins/wires	8
Type of mounting	Screw lock with SW14 and longitudinal knurl

Materials	
Housing	TPE-U (PUR)
Housing colour	Black
Cable sheath	TPE-U(PUR)
Cable sheath colour	Light grey
Insulating sheath	PP
Screw lock	Nickel-plated brass
Pin contacts	Gold-plated brass
Note on materials	RoHS-compliant
	Halogen-free

Operating and environmental conditions		
Ambient temperature	[°C]	-25 ... +70
Ambient temperature with flexible cable installation	[°C]	-5 ... +70
Storage temperature	[°C]	-40 ... +70
Corrosion resistance class CRC <sup>1)</sup>		1
Contamination level		3
Certification		c UL us - Recognized (OL)

1) Corrosion resistance class CRC 1 to Festo standard FN 940070  
 Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

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Technical data

Dimensions Download CAD data → [www.festo.com](http://www.festo.com)



Type	D1 Ø	D2 Ø	D3	L1	L2	L3	L4	≈ 1
NEBC-F12G8-KH-0.25-N-S-F12G8	8	15	M12x1	250	50	50	3	14
NEBC-F12G8-KH-0.5-N-S-F12G8				500				
NEBC-F12G8-KH-1-N-S-F12G8				1000				
NEBC-F12G8-KH-1.5-N-S-F12G8				1500				
NEBC-F12G8-KH-2-N-S-F12G8				2000				
NEBC-F12G8-KH-3-N-S-F12G8				3000				

Ordering data				
	Cable length [m]	Weight [g]	Part No.	Type
Hybrid plug connector, M12x1, with Festo-specific coding, 8-pin	0.25	47	<b>564189</b>	<b>NEBC-F12G8-KH-0.25-N-S-F12G8</b>
	0.5	69	<b>564190</b>	<b>NEBC-F12G8-KH-0.5-N-S-F12G8</b>
	1	113	<b>564191</b>	<b>NEBC-F12G8-KH-1-N-S-F12G8</b>
	1.5	154	<b>564192</b>	<b>NEBC-F12G8-KH-1.5-N-S-F12G8</b>
	2	200	<b>576015</b>	<b>NEBC-F12G8-KH-2-N-S-F12G8</b>
	3	280	<b>576636</b>	<b>NEBC-F12G8-KH-3-N-S-F12G8</b>