

## Standard Cable List for FAULHABER Stepper Motor Technology

2025 edition

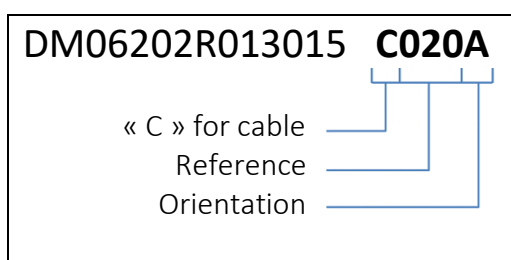
Valid for stepper motors from Ø6-Ø32mm

### How to order a cable?

To order a standard cable in combination with one of our small stepper motors (Ø6-Ø32mm) please follow the hereunder instructions.

The ordering code of a cable is made of a letter "C" + a reference number + an orientation letter. This ordering code follows the motor designation


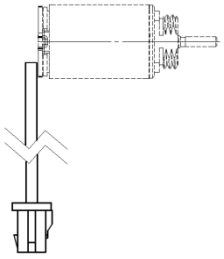
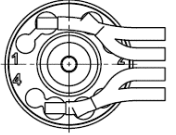
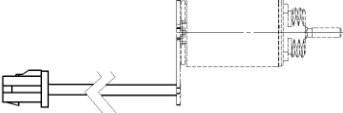
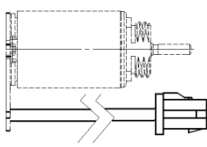
Example: Motor DM06202R013015 with a cable 50mm long with Molex connector and oriented axially towards the back of the motor.



### Encoders

For stepper combinations using the encoder IEP3-4096 (AM0820, AM1020 and AM1524) or the encoder IE3-1024 (AM3248), it is mandatory to also add a cable from this list.

### Orientation

A	B	C*		E**
	Not proposed		Round PCB	
		Not proposed	Solder Tag PCB	

\*The orientation "C" might implies slight length differences between the wires on certain motors (AM0820, AM1020 and DM1220)

\*\* The orientation "E" is reserved and mandatory for combinations with AM0820 or AM1020 motors and the IEP3 encoder.


## Cable list

### PVC CABLES WITH CONNECTOR

Ref.	Picture	Specifications		Phase & Pinout			Compatibility		
020		Cable length	50 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PVC	A+	Red	1	DM0620	A	B C
		Copper cross section	7x0.127 mm <sup>2</sup>	A-	White	2	AM0820	✓ <sup>3</sup>	✓ <sup>2</sup>
		AWG	28	B+	Green	3	AM1020	✓ <sup>3</sup>	✓ <sup>2</sup>
		Max. temperature	70°C	B-	Grey	4	DM1220	✓ <sup>1</sup>	✓ <sup>2</sup>
		Connector	Molex 51021-0400				AM1524	✓ <sup>1</sup>	✓ <sup>2</sup>
021		Cable length	100 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PVC	A+	Red	1	DM0620	A	B C
		Copper cross section	7x0.127 mm <sup>2</sup>	A-	White	2	AM0820	✓ <sup>3</sup>	✓ <sup>2</sup>
		AWG	28	B+	Green	3	AM1020	✓ <sup>3</sup>	✓ <sup>2</sup>
		Max. temperature	70°C	B-	Grey	4	DM1220	✓ <sup>1</sup>	✓ <sup>2</sup>
		Connector	Molex 51021-0400				AM1524	✓ <sup>1</sup>	✓ <sup>2</sup>
022		Cable length	150 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PVC	A+	Red	1	DM0620	A	B C
		Copper cross section	7x0.127 mm <sup>2</sup>	A-	White	2	AM0820	✓ <sup>3</sup>	✓ <sup>2</sup>
		AWG	28	B+	Green	3	AM1020	✓ <sup>3</sup>	✓ <sup>2</sup>
		Max. temperature	70°C	B-	Grey	4	DM1220	✓ <sup>1</sup>	✓ <sup>2</sup>
		Connector	Molex 51021-0400				AM1524	✓ <sup>1</sup>	✓ <sup>2</sup>
023		Cable length	300 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PVC	A+	Red	1	DM0620	A	B C
		Copper cross section	7x0.127 mm <sup>2</sup>	A-	White	2	AM0820	✓ <sup>3</sup>	✓ <sup>2</sup>
		AWG	28	B+	Green	3	AM1020	✓ <sup>3</sup>	✓ <sup>2</sup>
		Max. temperature	70°C	B-	Grey	4	DM1220	✓ <sup>1</sup>	✓ <sup>2</sup>
		Connector	Molex 51021-0400				AM1524	✓ <sup>1</sup>	✓ <sup>2</sup>

1. Only with solder tag PCB
2. Only with round PCB
3. Only with option A6258 (solder tag PCB)

### ETFE CABLES WITH CONNECTOR

Ref.	Picture	Specifications		Phase & Pinout			Compatibility		
030		Cable length	150 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	ETFE/PTFE	A+	Red	1	DM0620	A	B C
		Copper cross section	19x0.102 mm <sup>2</sup>	A-	Black	2	AM0820	✓ <sup>3</sup>	✓ <sup>2</sup>
		AWG	26	B+	Blue	3	AM1020	✓ <sup>3</sup>	✓ <sup>2</sup>
		Max. temperature	150°C	B-	White	4	DM1220	✓ <sup>1</sup>	✓ <sup>2</sup>
		Connector	Molex 51021-0400				AM1524	✓ <sup>1</sup>	✓ <sup>2</sup>
							AM2224	✓ <sup>1</sup>	✓ <sup>2</sup>
							AM3248	✓ <sup>1</sup>	✓ <sup>2</sup>

1. Only with solder tag PCB
2. Only with round PCB
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PTFE CABLES WITHOUT CONNECTOR									
Ref.	Picture	Specifications		Phase & Pinout			Compatibility		
040		Cable length	50 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PTFE	A+	Brown	1	DM0620	A	B C
		Copper cross section	19x0.102 mm²	A-	Red	2	AM0820	✓	✗ ✓
		AWG	26	B+	Oran	3	AM1020	✓	✓ <sup>3</sup> ✓
		Max. temperature	260°C	B-	Yello.	4	DM1220	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
		Connector	-				AM1524	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
						AM2224	✓	✗ ✓	
						AM3248	✓	✗ ✓	
041		Cable length	100 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PTFE	A+	Brown	1	DM0620	A	B C
		Copper cross section	19x0.102 mm²	A-	Red	2	AM0820	✓	✗ ✓
		AWG	26	B+	Oran.	3	AM1020	✓	✓ <sup>3</sup> ✓
		Max. temperature	260°C	B-	Yello.	4	DM1220	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
		Connector	-				AM1524	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
						AM2224	✓	✗ ✓	
						AM3248	✓	✗ ✓	
042		Cable length	150 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PTFE	A+	Brown	1	DM0620	A	B C
		Copper cross section	19x0.102 mm²	A-	Red	2	AM0820	✓	✗ ✓
		AWG	26	B+	Oran.	3	AM1020	✓	✓ <sup>3</sup> ✓
		Max. temperature	260°C	B-	Yello.	4	DM1220	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
		Connector	-				AM1524	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
						AM2224	✓	✗ ✓	
						AM3248	✓	✗ ✓	
043		Cable length	300 mm	Phase	Color	Pin	Motor	Orientation	
		Housing material	PTFE	A+	Brown	1	DM0620	A	B C
		Copper cross section	19x0.102 mm²	A-	Red	2	AM0820	✓	✗ ✓
		AWG	26	B+	Oran.	3	AM1020	✓	✓ <sup>3</sup> ✓
		Max. temperature	260°C	B-	Yello.	4	DM1220	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
		Connector	-				AM1524	✓	✓ <sup>1</sup> ✓ <sup>2</sup>
						AM2224	✓	✗ ✓	
						AM3248	✓	✗ ✓	

1. Only with solder tag PCB
2. Only with round PCB
3. Only with option A6258 (solder tag PCB)

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