

Encoder cables

This page shows the **encoder cables** available for the NL7-EC servo drives. The cables are grouped by motor frame size and by connector type.

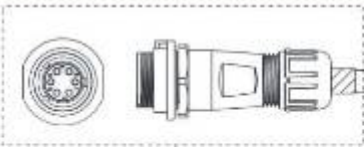
Motor frame size 80 mm or below

AMP connector - CABLE-7BM*-Z(V3.0)

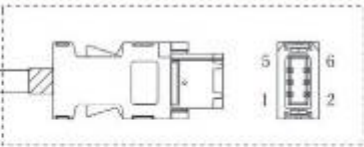
The diagram illustrates the connection of the AMP connector cable. On the left, the 'Motor side' shows a servo motor with a cable attached. On the right, the 'Driver side' shows a servo drive with a cable attached. The cable is labeled 'CABLE-7BM*-Z (V3.0)'. The driver side also shows a detailed view of the 9-pin connector with pins numbered 1 through 6.

Motor cable pin	Pins		
9-pin connector Motor side	Motor	Driver	Signal
	1	Frame	Shielded
	2	1	+5V
	3	2	0V
	4	5	SD+
	5	6	SD-
	6	3	BAT+
	7	4	BAT-

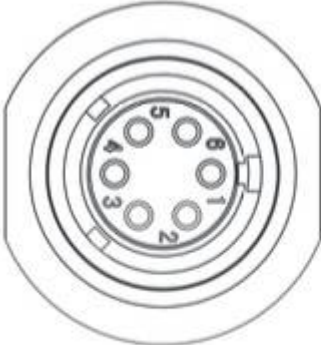
Aviation connector - CABLE-7BM*-HH2



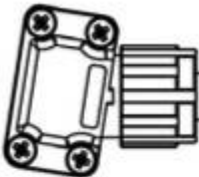
Motor side



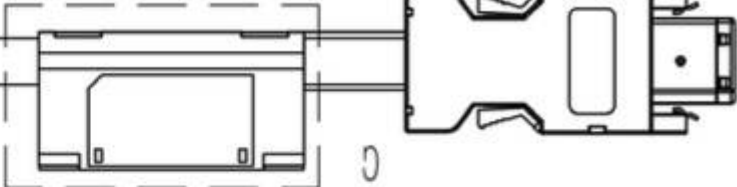
Driver side

Motor cable pin	Pin		
 Motor side	Motor	Driver	Signal
	1	Frame	Shielded
	2	1	+5V
	3	2	0V
	4	5	SD+
	5	6	SD-
	6	3	BAT+
	7	4	BAT-

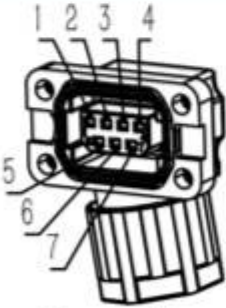
Direct connector - CABLE-BMAH*M*-124-TS - Absolute encoder



Motor side

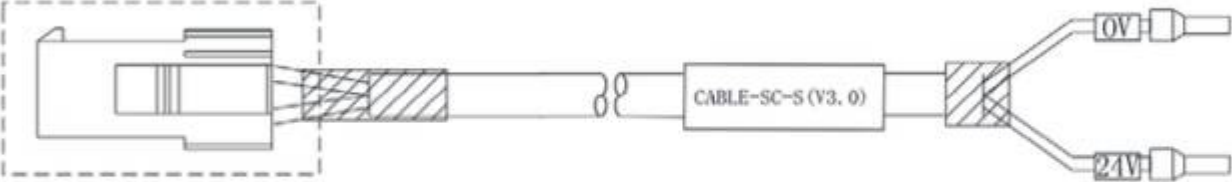


Driver side

Motor cable pin	Pin		
 Motor side	Motor	Driver	Signal
	1	Frame	Shielded
	2	1	+5V
	3	2	0V
	4	5	SD+
	5	6	SD-
	6	3	BAT+
	7	4	BAT-

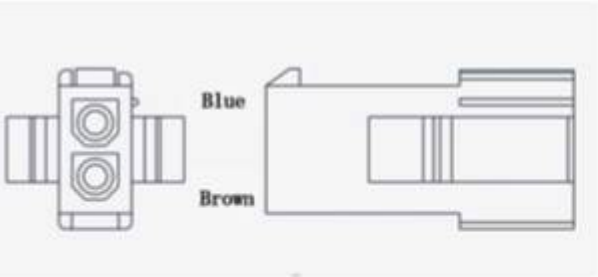
Motor frame size 130 mm

Aviation connector - CABLE-/BM*HZ(V3.0)



Motor side

Driver side

Motor cable pin	Pins									
 Motor side	<table><thead><tr><th>Motor</th><th>Color</th><th>Pin</th></tr></thead><tbody><tr><td>2</td><td>Blue</td><td>0V</td></tr><tr><td>1</td><td>Brown</td><td>24V</td></tr></tbody></table>	Motor	Color	Pin	2	Blue	0V	1	Brown	24V
Motor	Color	Pin								
2	Blue	0V								
1	Brown	24V								

Notes

- The cable type depends on the motor frame size and the encoder option. - The AMP and aviation connectors are used with the standard feedback; the direct connector is used with the absolute encoder. - Select the cable according to the drive port and the encoder type. - Refer to the ordering code page for the complete cable ordering code.

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