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Gold Solo Guitar Gold Solo Guitar Cable Kit







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Catalog Number

CBL-GSOLGUIKIT01

Revision History

Version	Date	Details	
Ver. 1.0	January 2012	Initial release	
Ver. 1.100	January 2014	Formatted according to the new template General document updates	
Ver. 1.101	January 2014	Added Section 1.2: Recommended Tool	
Ver. 1.102	May 2017	Change Molex PN to Recommended Tool	



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Chapter 1: Introduction

This document provides the wiring details for the cables used to connect Elmo's Gold Solo Guitar servo drive with the end-user application. The servo drive-side pinouts are provided in the *Gold Solo Guitar Digital Servo Drive Installation Guide*.

The cables come in one length: 2 meters (6 ½ feet).

1.1. Cable Kit

The catalog number of the Gold Solo Guitar cable kit is CBL-GSOLGUIKIT01.

NOTE:

It should be noted that this kit does not include any communication cables. Please purchase these cables separately.

This cable kit includes the following cables:

ELMO Part Number	Function
CBL-GPORTA-B2	Feedback port A
CBL-GPORTB-B2	Feedback port B
CBL-GPORTCIO-B2	Port C and I/O
CBL-GSTOCOM-B2	STO

1.2. Recommended Tool

If you are creating your own cables, it is recommended that you use a Molex hand crimp tool No. 63825-8200 or 63825-8100 (shown below) to attach the female terminals to the wires.





Chapter 2: Feedback Port A Cable (CBL-GPORTA-B2)

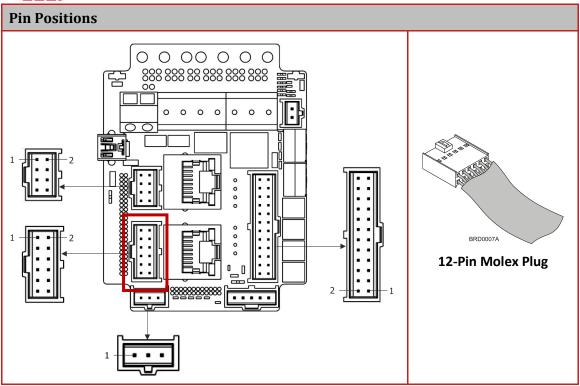
The feedback port A cable is made from a 6-pair 24-AWG shielded twisted-pair cable. There is one type of feedback cable, which uses a 12-pin Molex 2.54 mm pitch plug to connect to the servo drive. The part number (P/N) of this cable is CBL-GPORTA-B2.

The feedback port A cable is open on the motor side so that it can be connected to the motor-feedback connector.

The general pinout of the feedback port A cable is as follows:

Pin No.	Signal	Color	Twisted & Shielded Wire	Plug	
1	+5V	Brown	Pair		
2	COMRET	White	raii	12-Pin Molex Plug	
3	PortA_ENC_A+	Cyan	Pair		
4	PortA_ENC_A-	Orange	Pall		
5	PortA_ENC_B+	Purple	Dair		
6	PortA_ENC_B-	Black	Pair		
7	PortA_ENC_INDEX+	Red	Pair		
8	PortA_ENC_INDEX-	Blue	Pall		
9	НА	Green		12-Fill Wolex Flug	
10	НВ	Yellow			
11	нс	Pink			
12	PE	-	Drain Wire		





Note: The specific functionality of each pin is described fully in the *Gold Solo Guitar Digital Servo Drive Installation Guide*.

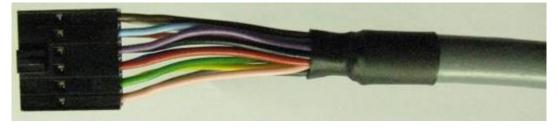


Figure 1: Single-Sided Main Feedback Cable (Part No. CBL-GPORTA-B2)

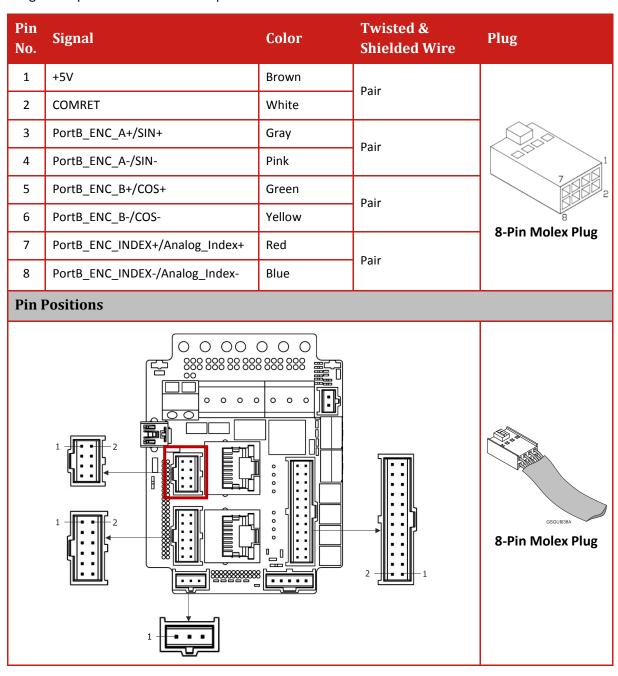


Chapter 3: Feedback Port B Cable (CBL-GPORTB-B2)

The feedback port B cable is a 4-pair 24-AWG shielded twisted-pair cable. It is connected using an 8-pin Molex 2.54 mm pitch plug. The part number (P/N) of this cable is CBL-GPORTB-B2.

The cable is open on the motor side so that it can be connected to the motor feedback connector.

The general pinout of the feedback port B cable is as follows:





Note: The specific functionality of each pin is described fully in the *Gold Solo Guitar Digital Servo Drive Installation Guide*.



Figure 2: Feedback Port B Cable (Part No. CBL-GPORTB-B2)



Chapter 4: Port C & I/O Cable (CBL-GPORTCIO-B2)

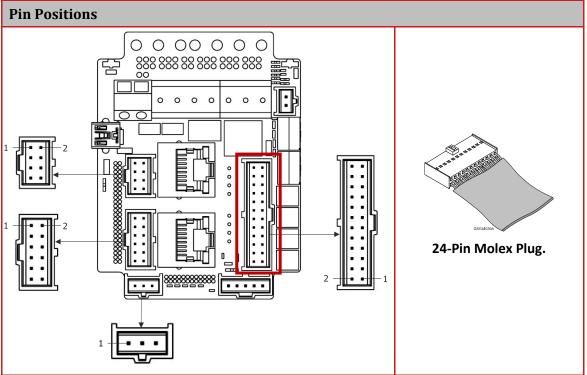
The Port C and I/O cable is a 12-pair 24-AWG shielded twisted-pair cable. It is connected using a 24-pin Molex 2.54 mm pitch plug. The part number (P/N) of this cable is CBL-GPORTCIO-B2.

The cable is open on the motor side so that it can be connected to the controller interface connector.

The general pinout of the Port C and I/O cable is as follows:

Pin No.	Signal	Color	Twisted & Shielded Wire	Harness (Cable)	Plug	
1	PortC_ENCO_A+	Brown	Pair			
2	PortC_ENCO _A-	White	rall			
3	PortC_ENCO _B+	Gray	Pair	_		
4	PortC_ENCO _B-	Pink	raii	ENC_OUT		
5	PortC_ENCO _ Index+	Green	Pair	ENC		
6	PortC_ENCO _ Index-	Yellow	raii	_		
7	COMRET	Red				
8	PE	-	Shield			
9	ANALOG1-	Green	- Pair		24-Pin Molex Plug	
10	ANALOG1+	Yellow	i dii			
11	ANARET	Brown				
12	INRET1_6	White				
13	IN1	Cyan		INPUTS		
14	IN2	Purple		N Q		
15	IN3	Orange				
16	IN4	Black				
17	IN5	Pink				
18	IN6	Blue				
19	OUT4	Brown				
20	OUT3	White		S		
21	OUT2	Gray		ООТРОТЅ		
22	OUT1	Pink		OUT		
23	VDD	Green	- Pair	-		
24	VDDRET	Yellow				





Note: The specific functionality of each pin is described fully in the Gold Solo Guitar Digital Servo Drive Installation Guide.

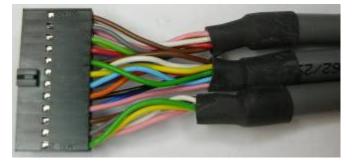


Figure 3: I/O Cable (Part No. CBL-GPORTCIO-B2)



Chapter 5: STO Cable (CBL-GSTOCOM-B2)

The STO cable is a 26-AWG shielded twisted-pair cable. It is connected using a 3-pin Molex 2.54 mm pitch plug. The part number (P/N) of this cable is CBL-GSTOCOM-B2.

The cable is open on the motor side so that it can be connected to customer-specific connectors.

The general pinout of the STO cable is as follows:

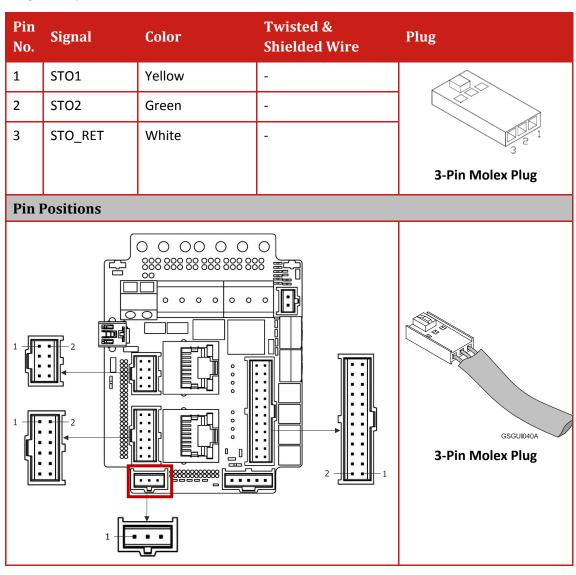




Figure 4: STO Cable (Part No. CBL-GSTOCOM-B2)



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