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Gold Duet 80
Cable Kit

December 2016 (Ver. 1.000)

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Document no. MAN-G-DUET 80-CBLKIT (Ver. 1.000)

Catalog Number

CBL-GDUETKIT02

Revision History

Version	Date	Details
Ver. 1.000	December 2016	Initial release

1. Introduction

This document provides the wiring details for the cables used to connect Elmo's Gold Duet 80 servo drive with the end-user application. The servo drive-front pinouts are provided in Chapter 3 of the *Gold Duet 80 Digital Servo Drive Installation Guide*.

The cables come in one length: 1.5 meters (4.921 feet).

1.1. Cable Kit

The catalog number for the Gold Duet 80 cable kit is CBL-GDUETKIT02.

The Gold Duet 80 cable kit includes the following:

ELMO Part Number	Function
CBL-M88W1M5	IO-STO-VL Cable
CBL-M8RJ452M	EtherCAT In/Out Cables
CBL-M12P04P-1.5	Power Cable

2. IO-STO-VL Cable (CBL-M88W1M5)

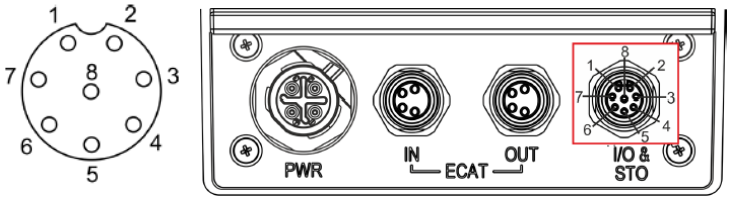
The I/O STO VL cable is an 8 pin wire 26-AWG cable. It is connected using a 8-pin male connector. The part number (P/N) of this cable is CBL-M88W1M5.

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

The general pinout of the Gold Duet 80 port I/O feedback cable is as follows:

Pin	Signal	Color
1	STO1	White
2	STO2	Brown
3	STO_RET	Green
4	IN2	Yellow
5	IN1	Gray
6	COMRET	Pink
7	OUT1	Blue
8	VL+	Red

Pin Positions



8-Pin M8 Female Connector

Figure 1: IO-STO-VL Cable

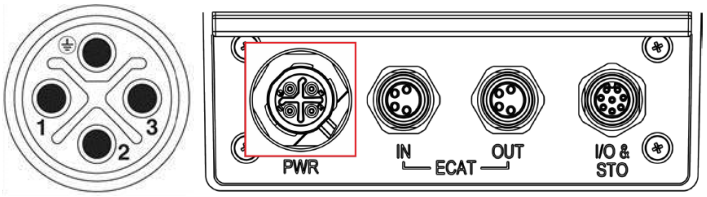
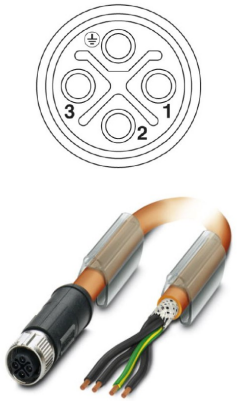
8-Pin M8 Male Connector

3. Power Cable (CBL-M12P04P-1.5)

The part number (P/N) of the power cable is CBL-M12P04P-1.5.

The cable is open on the second side so that it can be connected to the power supply.

The general pinout of the power cable is as follows:

Pin	Signal	Color
⏚	PE	Green-Yellow
1	PE	Black 1
2	PR	Black 2
3	VP+	Black 3
Pin Positions		
 **4-Pin M12 (Power) Male Connector**		 **4-Pin M12 (Power) Female Connector**

4. EtherCAT IN Cable (CBL-M8RJ452M)

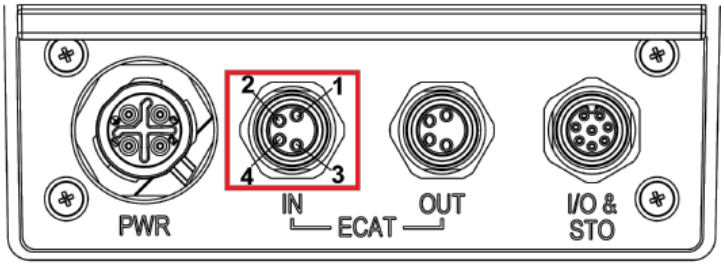
The part number (P/N) of the EtherCAT In cable is CBL-M8RJ452M.

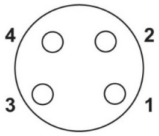
The cable has an M8 4pin and RJ45 Connectors on the second side so that it can be connected to the controller interface connector.

The general pinout of the EtherCAT In cable is as follows:

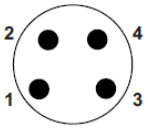
M8 Pin	Signal		RJ45 Pin
1	ECAT_IN_TX+	EtherCAT IN transmit +	1
4	ECAT_IN_TX-	EtherCAT IN transmit -	2
2	ECAT_IN_RX+	EtherCAT IN receive +	3
3	ECAT_IN_RX-	EtherCAT IN receive -	6

Pin Positions

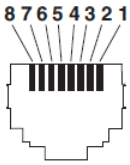




4-Pin M12 Female Connector



M8 male side view
4-Pin M8 Male Connector



RJ45 cable connector side view

Figure 2: EtherCAT In Cable

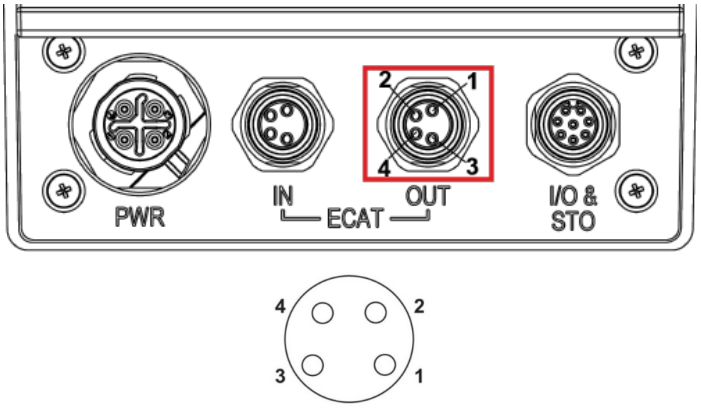
5. EtherCAT OUT Cable (CBL-M8RJ452M)

The part number (P/N) of the EtherCAT Out cable is CBL-M8RJ452M.

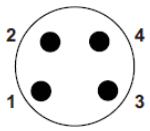
The cable has an M8 4pin and RJ45 Connectors on the second side so that it can be connected to the controller interface connector.

The general pinout of the EtherCAT Out cable is as follows:

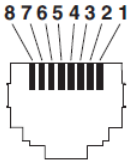
M8 Pin	Signal		RJ45 Pin
1	ECAT_OUT_TX+	EtherCAT OUT transmit +	1
4	ECAT_OUT_TX-	EtherCAT OUT transmit -	2
2	ECAT_OUT_RX+	EtherCAT OUT receive +	3
3	ECAT_OUT_RX-	EtherCAT OUT receive -	6
	Pin Positions		



4-Pin M12 Female Connector



M8 male side view
4-Pin M8 Male Connector



RJ45 cable connector side view

Figure 3: EtherCAT Out Cable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