

TLK-C03 - November 16, 2017

Item # TLK-C03 was discontinued on November 16, 2017. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

HALF BUTTERFLY DRIVER CABLE

- Connect Half Butterfly to Thorlabs Drivers
- Ideal for Component Testing or ECL Construction



TLK-C03

External Cavity Laser Setup



OVERVIEW

Features

- Designed for Thorlabs' Half Butterfly Gain Chips with Labels to Ensure Proper Wiring
- Excellent for Home-Made External Cavity Lasers
- Offers DB9 Connections for Thorlabs' LD and TEC Controllers

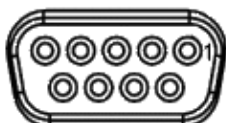
The TLK-C03 interfaces a half butterfly gain chip to Thorlabs' laser diode drivers and TEC controllers. This easy-to-use device has numbered sockets for error-free connection to Thorlabs' half butterfly gain chips. Common applications are testing a half butterfly gain chip before integration into a complete system, or in an external cavity laser (see the photo at top right).

Thorlabs' TEC controllers mate to the unit's male DB9 connector, while LD drivers attach to the female DB9 connector. Third-party controllers may also be used if wired to mate with the TLK-C03's DB9 pin configurations below. The half butterfly connection cable (included) can be detached from the TLK-C03's male DB15 connector (below) if a different wiring harness is needed.

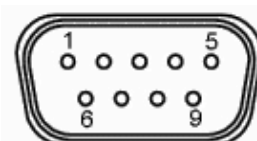
Half Butterfly Pin Configuration

Pin	Designation	Pin	Designation
1	TEC +	4	Device Anode
2	Thermistor	5	Device Cathode
3	Thermistor	6	TEC -

Laser Diode Driver



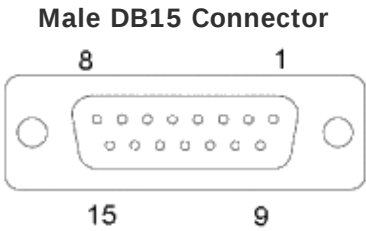
TEC Controller



Pin	Description	Pin	Description	Pin	Description
1	Tied to Pin 5*	4	PD Anode**	7	NC
2	PD Cathode**	5	Tied to Pin 1*	8	LD Anode
3	LD Cathode	6	NC	9	NC

*Bypasses interlock on Thorlabs' LD drivers, such as the ITC4001
**Not used for Thorlabs Half Butterfly gain elements

Pin	Description	Pin	Description	Pin	Description
1	NC	4	TEC +	7	NC
2	Thermistor +	5	TEC -	8	NC
3	Thermistor -	6	NC	9	NC



Pin	Description	Pin	Description	Pin	Description
1	TEC +	6	TEC -	11	NC
2	Thermistor +	7	PD Cathode	12	NC
3	Thermistor -	8	PD Anode	13	NC
4	LD Anode	9	NC	14	NC
5	LD Cathode	10	NC	15	NC

Part Number	Description	Price	Availability
TLK-C03	Customer Inspired!Half Butterfly Package Breakout Cable Set	\$131.00	Lead Time