



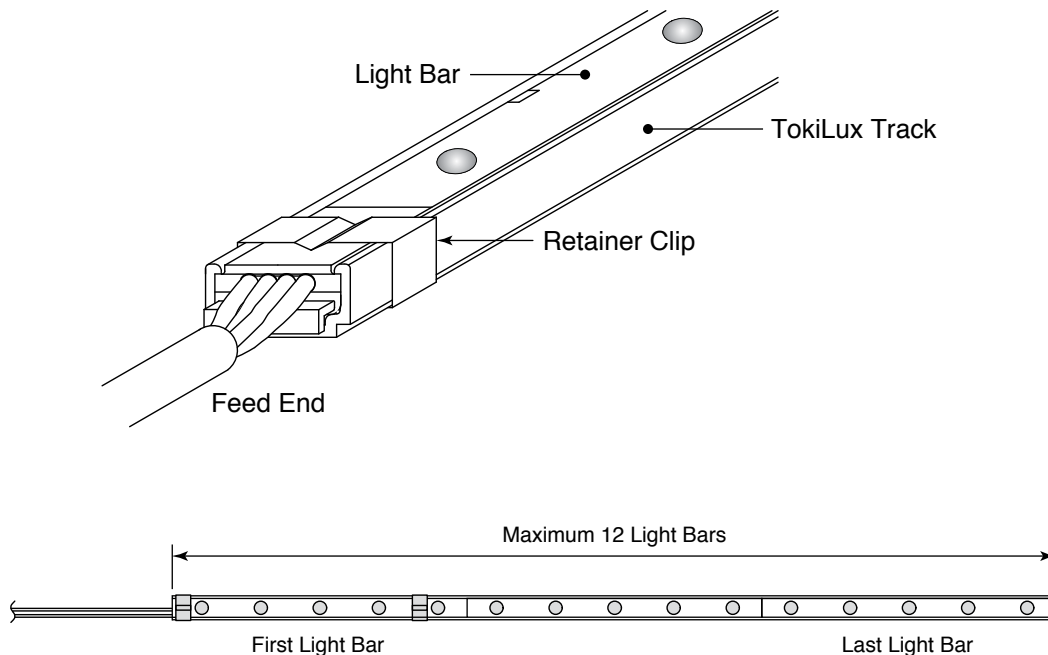
# TOKISTAR LIGHTING INSTRUCTION MANUAL

## TokiLux™ KT Kelvin Tuning Series

24VDC

### General Description

Tokistar's TokiLux KT Series operates at 24VDC. Light Bars are installed end-to-end within the TokiLux track. Each Light Bar contains five LEDs and consumes a total of 4 watts. An individual run length may contain up to 12 Light Bars. Multiple tracks can be interconnected with up to 12 Light Bars from a single feed point. Each track is labeled with wattage and operating voltage.



### PRECAUTIONS

1. Read all instructions completely before beginning installation.
2. Turn off electricity before beginning installation.
3. All wiring is to be performed by a qualified electrician.
4. Installation must comply with the National Electrical Code, and all applicable codes.
5. Turn main supply to the LED driver on only after all connections have been made and tested.
6. Use only LED drivers provided by Tokistar with the system.

#### TOKISTAR® LIGHTING

1015 E. Discovery Lane  
Anaheim, CA 92801

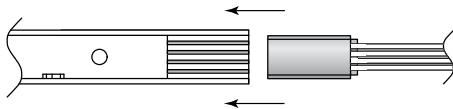
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## Connectors

### Feed Connector

#### Part#: TLX-CON-KT

Feed Connectors bring power to one end of a TokiLux KT run. Up to 12 Light Bars can be powered from a single connector.



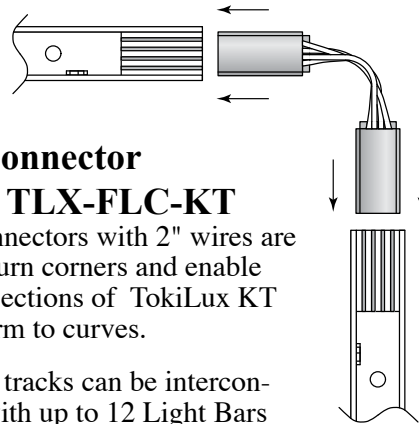
Do Not Snap Connectors  
in place from above.  
Slide in place.

### Flex Connector

#### Part#: TLX-FLC-KT

Flex Connectors with 2" wires are used to turn corners and enable smaller sections of TokiLux KT to conform to curves.

Multiple tracks can be interconnected with up to 12 Light Bars from a single feed point.

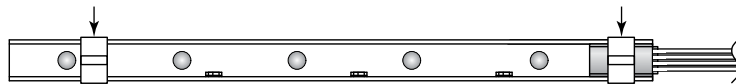


## Retainer Clips

Retainer clips are included with Feed Connectors and Flex Connectors.

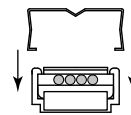
### Feed Connector Assembled

A Retainer Clip is required  
between the 4th and 5th  
LED of the 1st Light Bar



Retainer Clip  
on Feed Connector

Retainer Clips snap in  
place from above.



### Flex Connector Assembled

A Retainer Clip is required  
between the 4th and 5th  
LED of the 1st Light Bar



Retainer Clip  
on Flex Connector

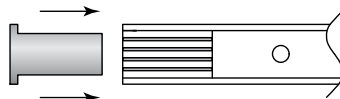
Retainer Clip  
on Flex Connector

A Retainer Clip is required  
between the 4th and 5th  
LED of the adjoining Light Bar

## End Cap

#### Part#: TLX-ED-KT

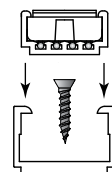
End Caps insulate the end  
of a run of TokiLux KT.



## Mounting Clamp

#### Part#: TLX-CP

Mounting clamps are attached  
with screws and the Tokilux KT  
fixture is snapped in place.  
Recommended spacing is  
every 12".



Mounting Clamp

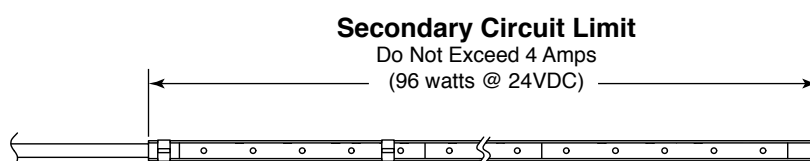
## Fixture Lengths

Fixtures cannot be trimmed on site, so the overall length is based upon the number of Light Bars included. Check the sizes and lengths chart for precise measurements.

Part Number	Bars	Watts	Length	
TLX-(Ordering Code)-1	1	4	9.875"	250 mm
TLX-(Ordering Code)-2	2	8	17.75"	450 mm
TLX-(Ordering Code)-3	3	12	25.625"	650 mm
TLX-(Ordering Code)-4	4	16	33.5"	850 mm
TLX-(Ordering Code)-5	5	20	41.375"	1,050 mm
TLX-(Ordering Code)-6	6	24	49.25"	1,250 mm
TLX-(Ordering Code)-7	7	28	57.125"	1,450 mm
TLX-(Ordering Code)-8	8	32	65"	1,650 mm
TLX-(Ordering Code)-9	9	36	72.875"	1,850 mm
TLX-(Ordering Code)-10	10	40	80.75"	2,050 mm
TLX-(Ordering Code)-11	11	44	88.625"	2,250 mm
TLX-(Ordering Code)-12	12	48	96.5"	2,450 mm

## Secondary Circuit Wiring

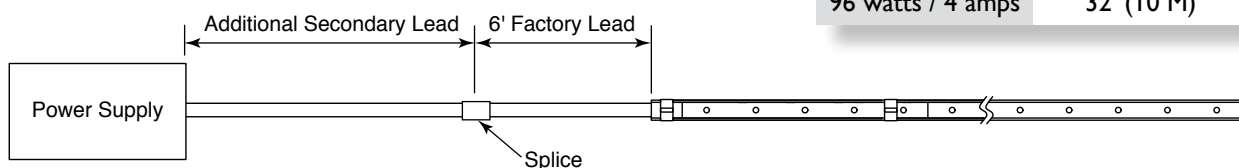
A maximum of 24 Light Bars can be powered on one circuit from the power supply.



## Recommended Lead Wire Size

Leads on feed connectors are 6 ft. long. Additional lead wire may be spliced on by the installer in order to reach remote LED driver locations. The length of and the load on the secondary circuit will determine the proper size of secondary wire. This chart provides recommended length of the secondary circuit using #18 AWG based upon the loads shown.

Secondary Lead Wires	
Load / Amps	Wire Length
24 watts / 1 amp	130' (40 M)
48 watts / 2 amps	98' (30 M)
72 watts / 3 amps	65' (20 M)
96 watts / 4 amps	32' (10 M)



## LED Driver Installation

### LDR24-96

This 96 Watt Class 2 LED driver converts an AC input into a 24VDC output. Refer to the manual provided with the LED driver for detailed installation instructions.

Part#	Input Volts	Output Volts	Output Ratings
LDR24-96	100~277	24VDC	1 @ 4 Amps

### LDR24-192

Tokistar's LDR24-192 has two independent 96 watt outputs. If the system is dimmed, each output requires an independent dimmer pack. This unit has wiring compartments for splicing on input and output leads, and can be connected directly to conduit. Refer to the manual provided with the LED driver for detailed installation instructions.

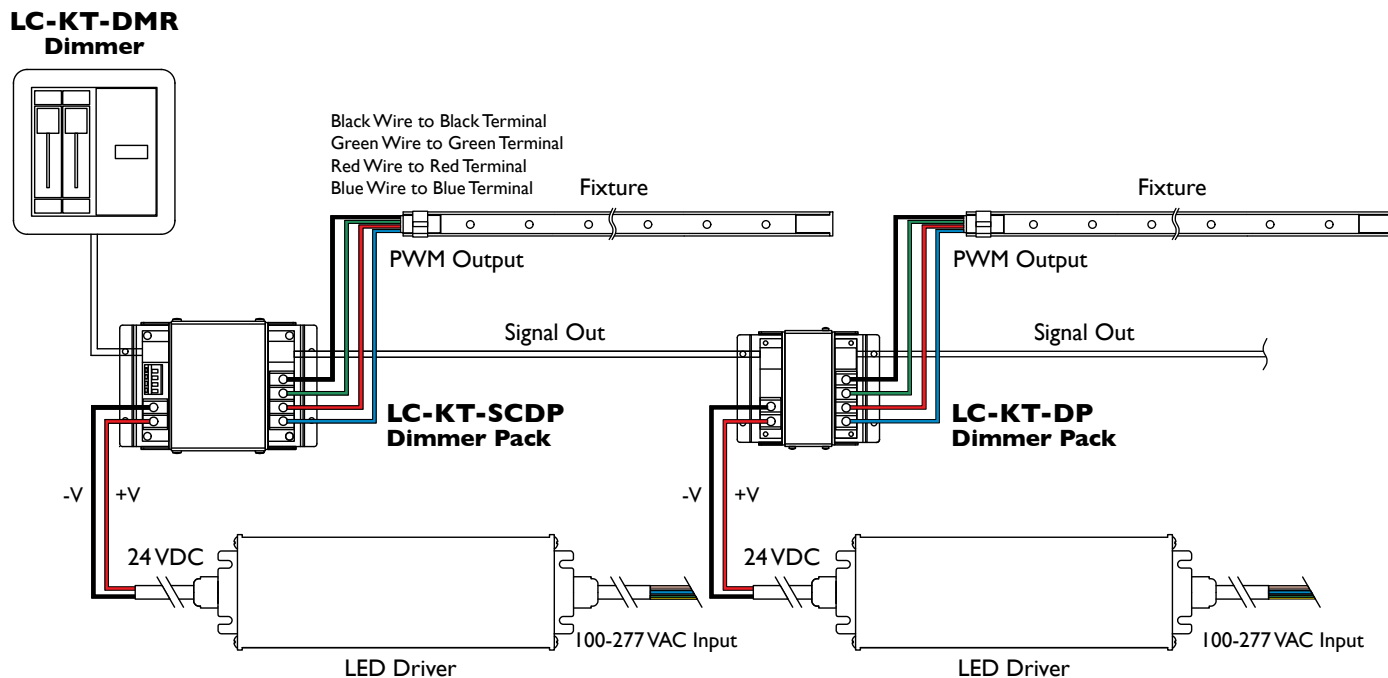
Part#	Input Volts	Output Volts	Output Ratings
LDR24-192	100~277	24VDC	2 @ 4 Amps

## ⚠ PRECAUTIONS

Do Not Exceed 4 Amps Per Circuit.

## KT Dimming System

This proprietary dimming system provides the ability to tune in a kelvin temperature with one slide, and full-range dimming of the selected choice with the other. The LC-KT-DMR Wall Dimmer connects to one LC-KT-SCDP Dimmer Pack. Up to 25 LC-KT-DP Dimmer Packs may be connected in series if the total length of all CAT5 cable does not exceed 165 feet from the wall dimmer to the last dimmer pack. CAT5 cables are included with units.



Dual output LED drivers require a dimmer pack for each output.

TokiLux fixtures are  
ETL Listed when operated  
from our LED Drivers.



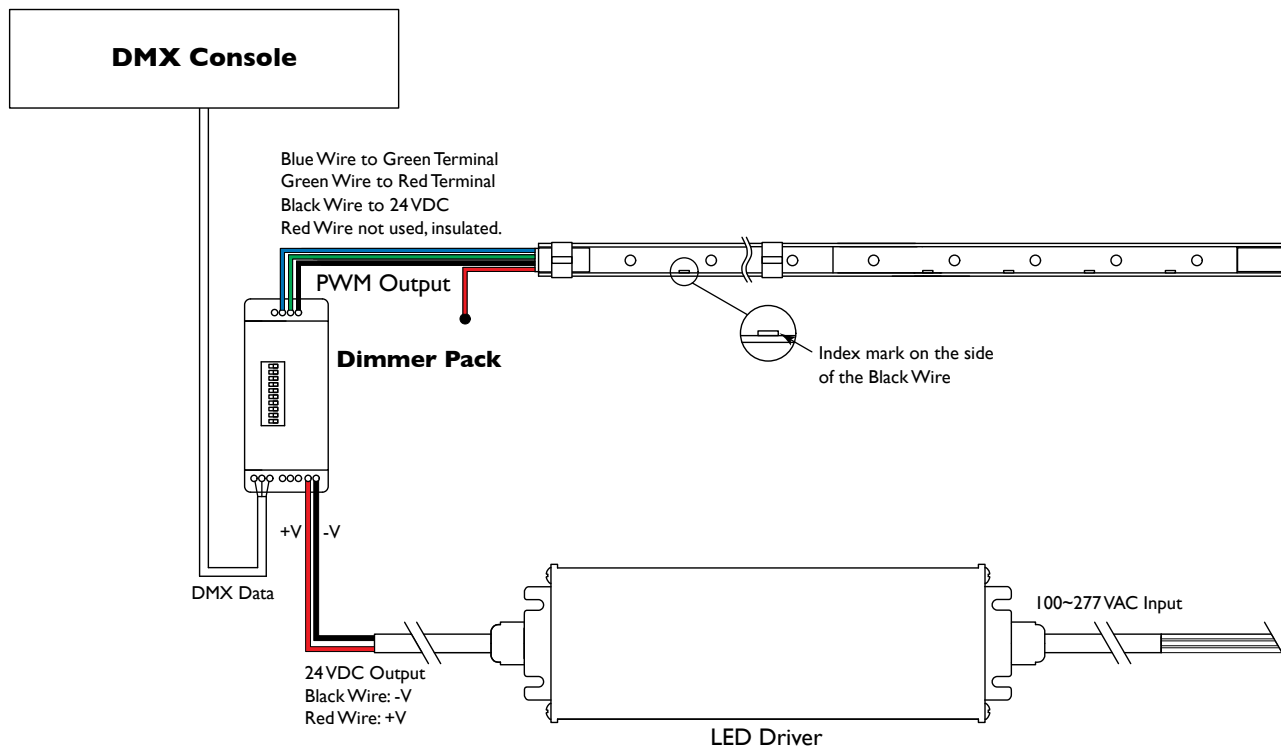
## ⚠ PRECAUTION

All dimming components are rated for dry location only. They must be installed within an enclosure suitable for the environment.

## DMX Dimming System

TokiLux KT may be operated from addressable DMX systems with a minimum of two address outputs and Master Dimming control capability. Each of our DMX Dimmer Pack/Driver combinations is capable of operating up to twenty-four 4 watt LED Bars (96 Watts maximum). Up to 36 Dimmer Packs can be linked together. A Splitter is required for longer runs.

For further information, refer to the instruction manual provided with the LC-3CH-DMX.



Dual output LED drivers require a dimmer pack for each output.

## PRECAUTION

All dimming components are rated for dry location only. They must be installed within an enclosure suitable for the environment.

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