



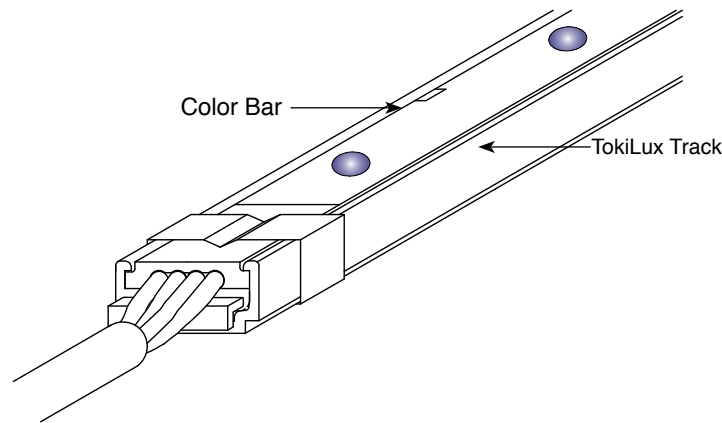
TOKISTAR LIGHTING INSTRUCTION MANUAL

TokiLux RGB Series

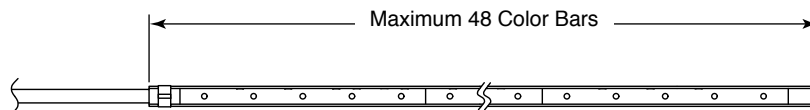
General Description

Tokistar's TokiLux RGB Series operates at 24 VDC. Color Bars are installed end-to-end within the TokiLux track. Each Color Bar contains five tri-color LEDs and consumes 2 watts.

An individual track can have up to 12 Color Bars. Multiple tracks with up to 48 Color Bars can be interconnected with the use of Junction Bars or Flex Connectors. Each fixture is labeled with wattage and operating voltage.



Maximum Run Length



! 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.
7. Certain adhesives produce a bi-product of corrosive gas during their curing process, and should not be used in conjunction with our LED Systems where the gas cannot be vented. Consult with the Sealant company for such applications.

TOKISTAR® LIGHTING

1015 E. Discovery Lane
Anaheim, CA 92801

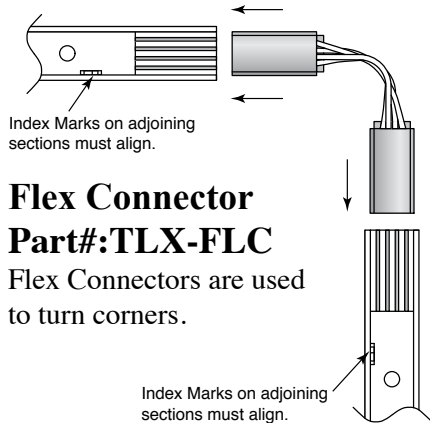
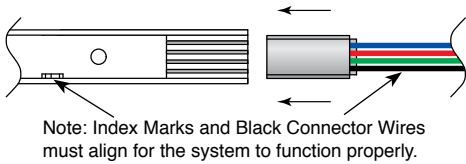
TEL: 714 772 7005 FAX: 714 772 7014
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Connectors and Junction Bars

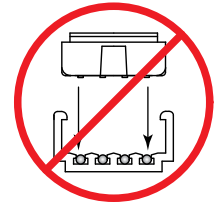
Feed Connector

Part#: TLX-LEC

Feed Connectors bring power to one end of a TokiLux run. Up to 48 Color Bars can be powered.



Do Not Snap Color Bars or Connectors in place from above. Slide in place.



Flex Connector

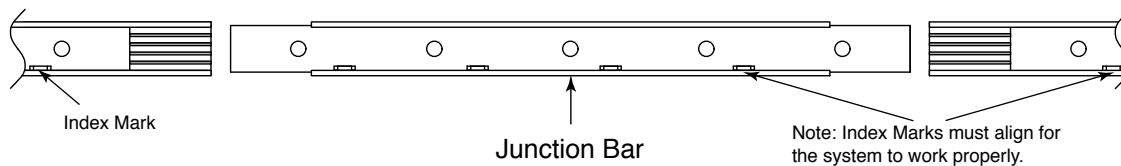
Part#: TLX-FLC

Flex Connectors are used to turn corners.

Junction Bar

Part#: TLX-RGB-JB

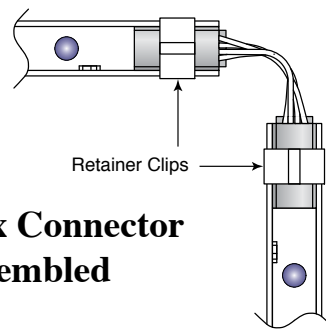
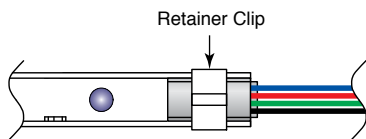
Junction Bars are used to interconnect straight runs of TokiLux.



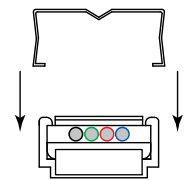
Retainer Clips

Retainer clips are included with Feed Connectors, Flex Connectors and Junction Bars. These snap onto the fixture to provide a secure connection.

Feed Connector Assembled

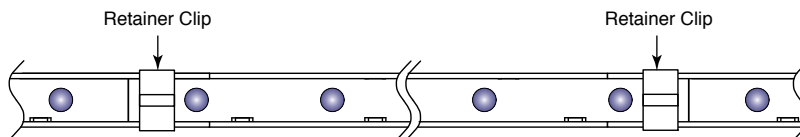


Retainer Clips snap in place from above.



Flex Connector Assembled

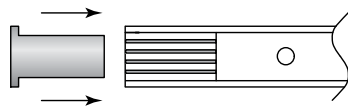
Junction Bar Assembled



End Cap

Part #: TLX-ED

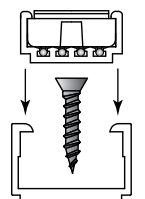
End Caps insulate the end of a run of TokiLux.



Mounting Clamp

Part #: TLX-CP

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



Mounting Clamp

⚠ PRECAUTIONS

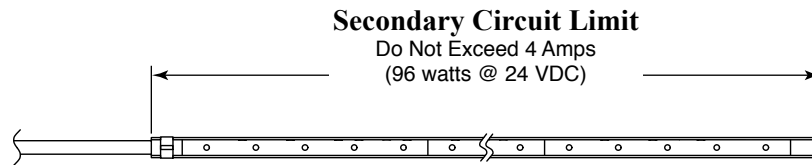
Index Marks must align for the system to function properly.

Index Marks and the black wire on the Feed Connector must align for the system to function properly

Do Not Snap sections of TokiLux into each other, slide sections into place.

Secondary Circuit Wiring

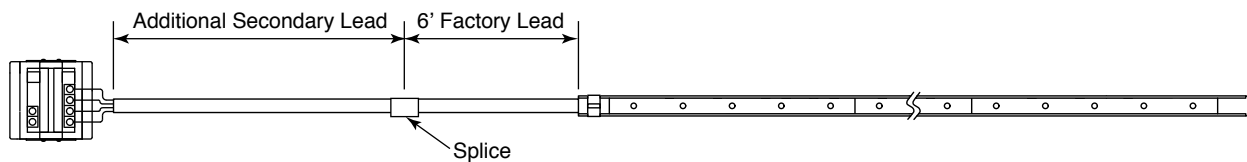
A maximum of 48 Color Bars can be powered on one circuit from the power supply.



Recommended Lead Wire Size

The distance from the LED Driver to the fixture, and the load of the fixture, will determine the proper size of secondary wire. Feed Connectors are provided with a 6' lead. If additional wire needs to be attached to the Feed Connector, refer to the recommendations in this chart.

Secondary Lead Wires	
Wire Size	Wire Length
#16 AWG	50' (15 M)
#14 AWG	75' (23 M)
#12 AWG	100' (30 M)
#10 AWG	150' (46 M)



LED Driver Installation / 24 VDC Operation

LDR24-120

This 120 Watt Class 2 LED Driver converts an AC input into a 24 VDC output. Refer to the manual provided with the LED Driver for detailed installation instructions.

Part#	Input Volts	Output Volts	Output Ratings
LDR24-120	100~240	24VDC	2 @ 4 Amps (Max. 5 Amps Total)

Load Distribution

The LDR24-120 has two independent outputs. The total rating of the unit (both outputs combined) is 24 VDC/5 Amps. A single output can be loaded up to the maximum rating of 4 Amps. In this case, the other output can only be loaded up to 1 Amp. It is also possible to load each of the outputs with other combinations (such as 2.5 Amps x 2), as long as the combined load of both outputs does not exceed 5 Amps.

PRECAUTIONS

- Do Not Exceed 5 Amps Total per LDR24-120 Driver.
- Do Not Exceed 4 Amps Per output.

Lighting Controllers

Color Mix System

There are three basic components to a Color Mix System. They include the Control Station, Dimmer Packs and LED Drivers.

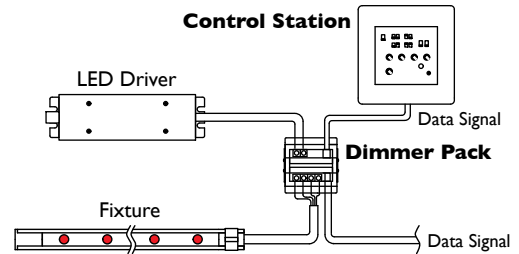
Control Station

The LC-3CH-CM Control Station installs in a double-gang junction box. Power to this unit comes from the LED Driver connected to the first dimmer pack. A 50 foot CAT5 cable is provided.

Dimmer Packs

Dimmer Packs are capable of operating up to 48 TokiLux Color Bars (96 Watts maximum). A CAT5 cable is provided with each unit. Up to 25 dimmer packs may be connected in series if the total length of all CAT5 cable does not exceed 165 feet from the LC-3CH-CM control station to the last dimmer pack.

For further information, refer to the instruction manuals provided with the units.



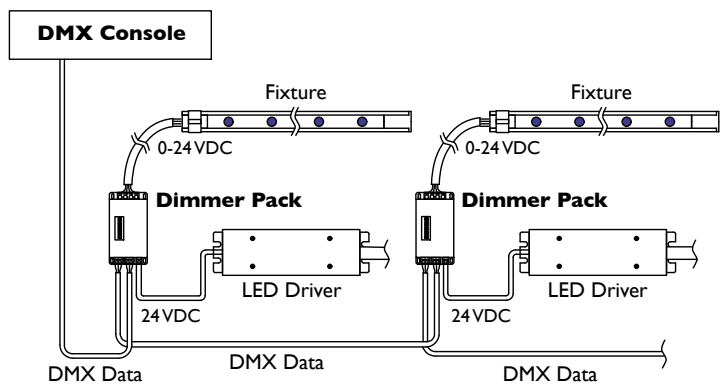
DMX Dimming System

There are three basic components to a DMX Dimming System. They include the DMX Console (by others), Dimmer Packs and LED Drivers.

LC-3CH-DMX Dimmer Packs

Dimmer Packs are capable of operating up to 48 TokiLux Color Bars (96 Watts maximum). Dimmer Packs are addressable, and may be used with any controller working on DMX protocol. Up to 36 Dimmer Packs can be linked together with data cable. For applications exceeding 36 Dimmer Packs, a Splitter is required. Splitters can operate up to 6 groupings of Dimmer Packs (216 Total).

For further information, refer to the instruction manuals provided with the units.



PRECAUTION

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