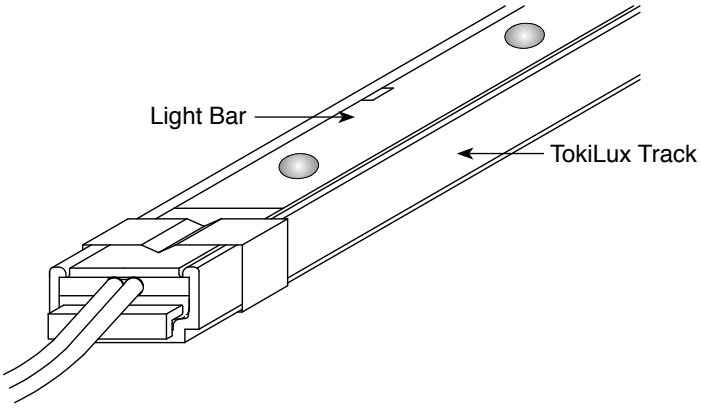
# TOKISTAR LIGHTING INSTRUCTION MANUAL

# TokiLux Series 24 VAC

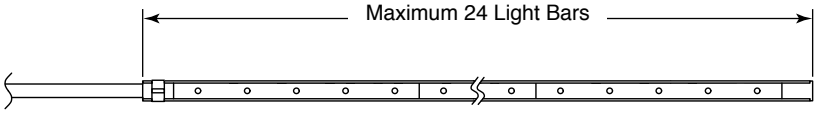
## General Description

Tokistar's TokiLux Series operates at 24 VAC. 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 fixture may accommodate up to 12 Light Bars. Multiple fixtures with up to 24 Light 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 Transformer on only after all connections have been made and tested.
6. Use only Transformers 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.

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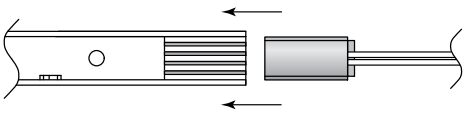
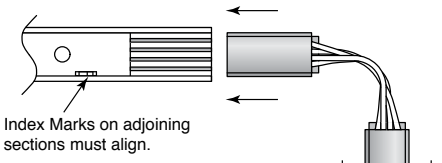
# Connectors and Junction Bars

## Feed Connector
## Part#:TLX-CON

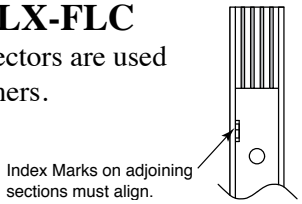
Feed Connectors bring power to one end of a TokiLux run. Up to 24 Light Bars can be powered from a single connector.



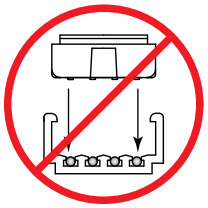



## Flexible Connector
## Part#:TLX-FLC

Flex Connectors are used to turn corners.

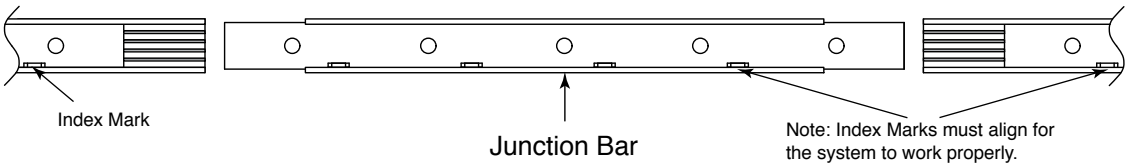



Do Not Snap Light Bars or Connectors in place from above. Slide in place.



## Junction Bar
## Part#: TLX-(IW or NW)-JB

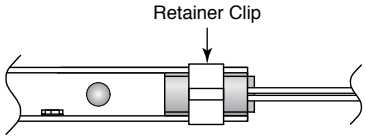
Junction Bars are used to interconnect straight runs of TokiLux.

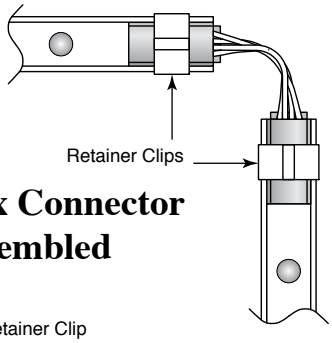



# Retainer Clips

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

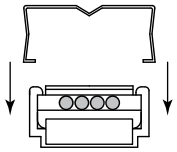
## Feed Connector Assembled



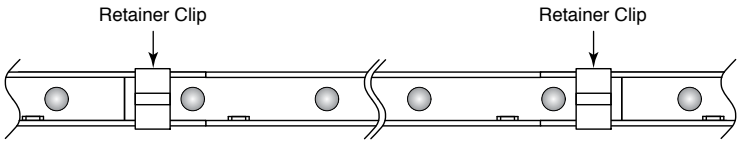




## Flex Connector Assembled

Retainer Clips snap in place from above.

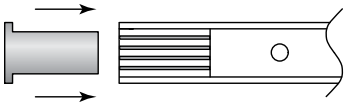


## Junction Bar Assembled



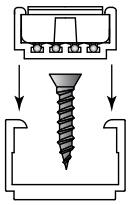

## End Cap
## Part #: TLX-ED

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”.

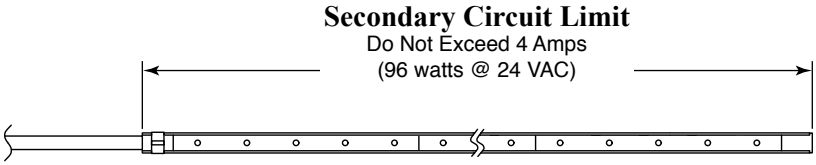

Mounting Clamp

# ⚠ PRECAUTIONS

Index Marks must align for the system to function properly.
Do Not Snap sections of Tokilux into each other from above. Slide sections into place.

## Secondary Circuit Wiring

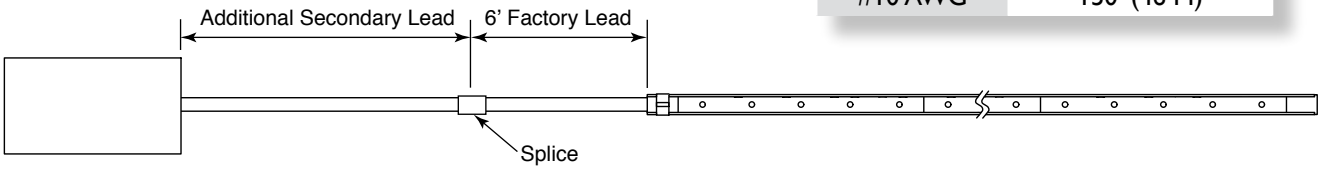
A maximum of 24 Light Bars can be powered on one circuit from the power supply.




## Recommended Lead Wire Size

The distance from the power supply 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) |




## Transformer Location

Transformers should be installed in an accessible location. Magnetic transformers generate heat and must be installed in locations where there is free-air circulation. Refer to the manual provided with the transformer for detailed installation instructions.

## Dimming

TokiLux is suitable for use with a wide range of industry-standard dimmers. There are some compatibility issues with certain models.

1. TokiLux LED Modules are for use from 24 VAC magnetic transformers only. Therefore, the dimmer must be suitable for dimming this style of transformer.

2. Some dimmers have a minimum-load requirement. These style of dimmers not only require a minimum load, but also need to sense the load is present before they will function properly. Although there may be enough of our LED Modules to reach the minimum load requirement, the dimmers still may not function properly because they do not interpret an LED load as they do a standard incandescent load. Some dimming companies do offer a solution to this problem. They offer a "synthetic load" device which will cause the dimmer to operate properly with our LED Modules if the minimum load requirement is met.

## ⚠ PRECAUTIONS

Do Not Exceed 4 Amps Per Circuit.

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