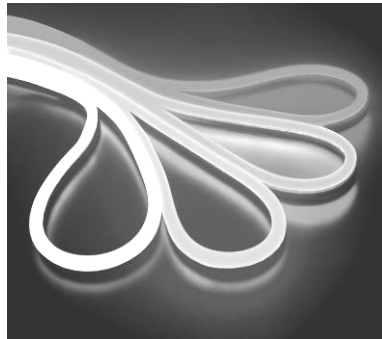


LED-FLEX™

USER MANUAL



BEFORE YOU BEGIN

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements please look for a label affixed to the product or packaging or refer to the product's specifications chart. A product's listed current rating is its average current draw under normal conditions. Before applying power to a fixture, check that the source voltage matches the fixture's requirement.

Warning! *Verify that the power required on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.*

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance?



- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the product.
- Although repair instructions are included in this manual, It should be carried out by qualified persons knowledgeable in electrical repair. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Always use recommended type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.

INTRODUCTION

LED-FLEX™ is a professional linear lighting device using LED technology. It looks like Glass neon, but it is flexible, safer, and more durable, lasts longer and can be used outdoors. Only a few tools are required for field design and installation. LED-FLEX™ is ideal for permanent, fixed installations requiring minimum maintenance but can also be useful when adding last minute, creative, custom design details.

Professionals in the entertainment industry will find practical, functional and creative use of the LED-FLEX™ product in the design of tradeshow booths, special events, merchandising, retail displays and themed environments.

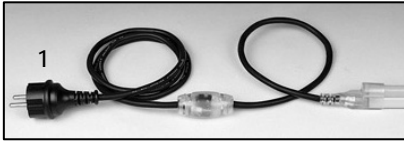
Features

- LED-FLEX™ is flexible
- Safer than glass Neon
- Shockproof
- Easily transportable
- Provides longer life
- Lower power consumption
- Lower maintenance
- Bright output
- Easy to install

Foreword

Please review the component's overview section before commencing with installation. It will be important to have ready the tools necessary to complete the job successfully. One such item to draw special attention to is the PVC glue. Mule Lighting, Inc. does not provide PVC glue with the accessories enclosed. This item is continuously illustrated in all pictures and is an integral component for maintaining water-tight connections. PVC glue and cement are general terms. Be sure to use adhesive that will bond to PVC.

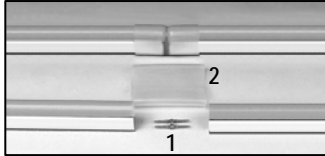
Components Overview



POWER SUPPLY

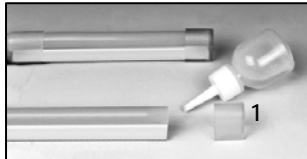
1. Power cord and plug with AC/DC converter

Use male connector pin (CA-2)



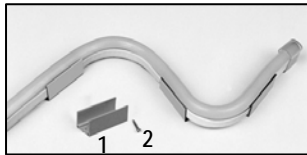
SPLICEABLE CONNECTOR

1. Male connector pin (CA-3)
2. Heat shrink tube



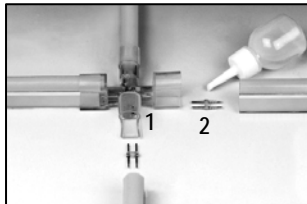
M-2

1. End cap



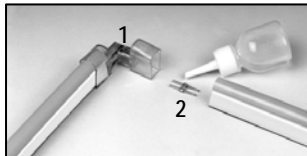
LED-FX-5

1. Channel clip
2. Screws (2)



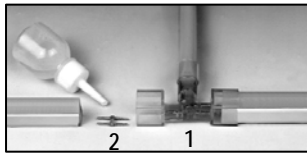
LED-FX-X

1. X connector
2. Male connector pin (CA-2)



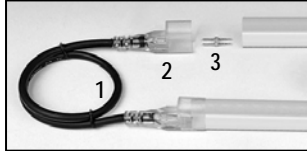
LED-FX-L

1. L connector
2. Male connector pin (CA-2)



LED-FX-T

1. T connector
2. Male connector pin (CA-2)



LED-FX-EXT8

1. Extension cable, 8 inches
2. Female power connector
3. Male connector pin (CA-2)

LED-FX-EXT96

Same as above but with:
Extension cable, 96 inches



Male Connecting Pins (CA)

- CA-2 (between power cord or specialized connectors)
- CA-3 (between LED-FLEX™)

Connecting pins are included in all accessory items and are not sold individually.

Recommended tools for installation and repairs



Heater Gun
Part B



Cutter
Part D



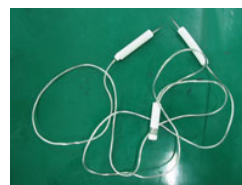
Solder gun
Part F



Solder
Part G



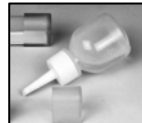
Pincer
Part E



Needle connectors
Part C



Ant-static strip
Part A



PVC Glue

This item is important to maintain water tight connections. Please visit your local hardware store. Please read "Foreword" section.

INSTALLATION

The LED-FLEX™ product is a versatile and user friendly linear lighting device; it can be cut and bent and formed in the field and easily installed on flat surfaces of varied materials, such as wood, plastic, steel, or on walls to form all kinds of pattern according to your design.

Please follow the following pre-installation guidelines;

1. Mark centerlines or draw outlines of your pattern on the installation surface.
2. Secure channel clips on the centerlines at appropriate intervals with screws. Secure clips immediately after each curve to secure.
3. Insert LED-FLEX into the channel clip with illuminating side upwards.
4. Connect pieces together.

Connecting pins



It is necessary for the connector pins to make contact with the conductors in the LED-FLEX™ cable. There are 2 connector pin types (CA-2 & CA-3). Please use the correct connector pin as described in "Components Overview".

Cutting mark

LED-FLEX™ must be cut only on the indicated mark.

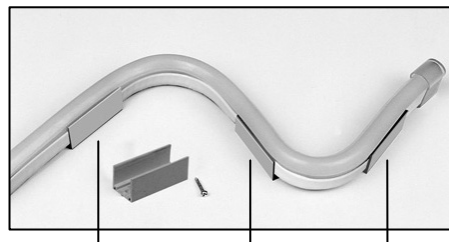
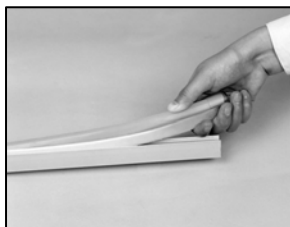
We recommend doing a continuity test prior to sealing the LED-FLEX with the PVC Glue



Important!
Always cut on cutting marks

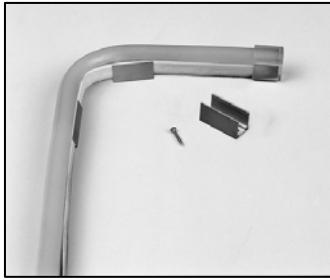


Linear and Curve installation

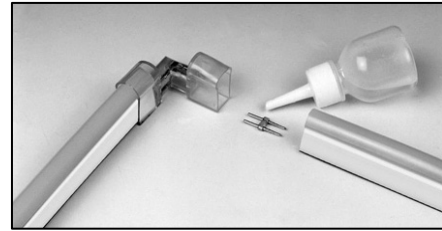


Support curves by placing channel clips on both sides of a curve.

90° Installation

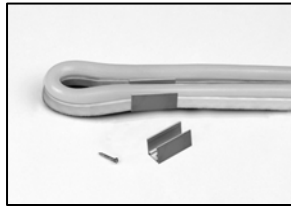


Continuous 90° run.

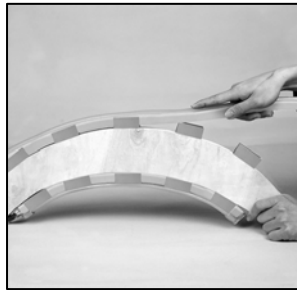


90° run using the L connector.

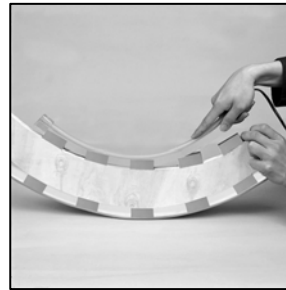
180° Installation



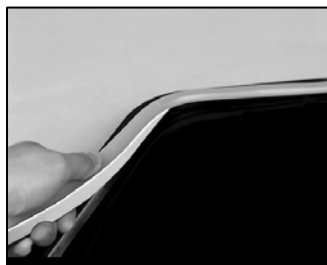
Other installation illustrations



Convex Installation

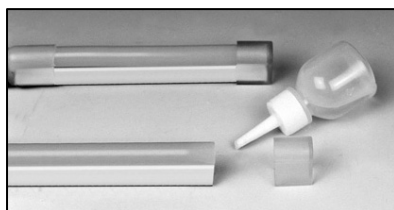


Concave Installation



Slotted Installation

Capping off run

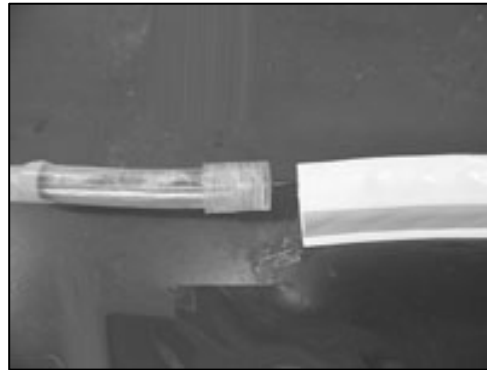


Remember to use an appropriate PVC glue/cement to achieve a complete seal.

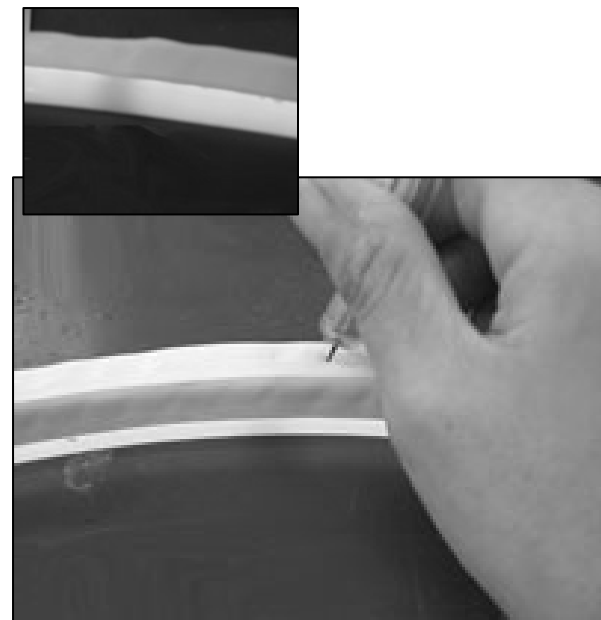
REPAIR INSTRUCTIONS

STEPS

- 1) Wear anti-static strap (Part A) or a similar device and connect it to earthed metal equipment.

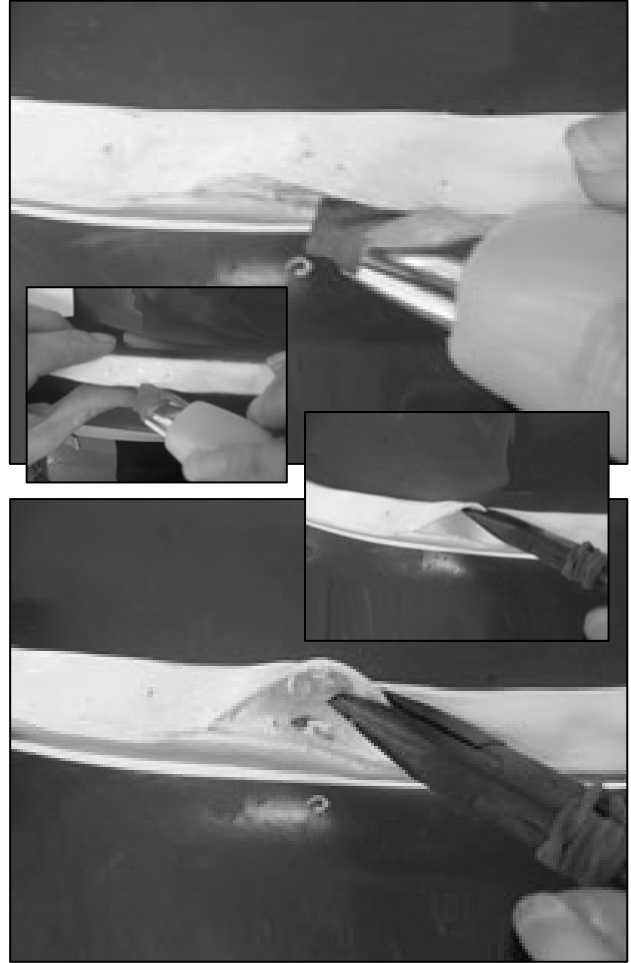


- 2) Insert another end of needle like connector (Part C) into LED Neon to locate the problematic point. If the problem section lights up then the faulty point has been located.

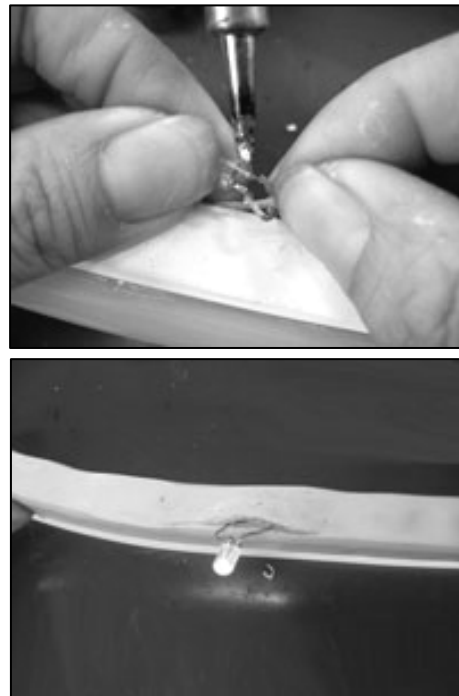


ILLUSTRATIONS

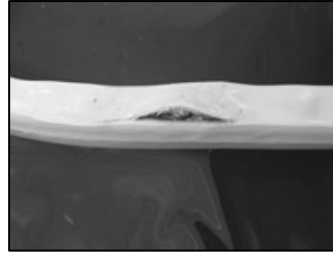
- 3) Unplug the power source. Use cutter (Part D) and pincer (Part E) to open up the PVC and fix the faulty parts inside.



- 4) Re-solder the components (Part F & G). Plug in the power source to re-confirm the faulty part is fixed.



- 5) Put back all of the parts into the LED Neon-Flex.



- 6) Use heater (Part B) to soften the PVC. Use flat & clean materials to press on the softened PVC to make the opening stick back.



- 7) Use cutter (Part D) to cut off the excessive PVC.



- 8) Plug in the power source to re-confirm the faulty part is fixed.

