

# INSTALLATION NOTES

SAVE THESE INSTRUCTIONS

We have developed this series of field installation guidelines to assist you in correctly installing fixtures and transformers ensuring customer satisfaction and trouble free service. If you have any questions please call your local distributor or the FX Techline at **800-688-1269** before proceeding. Follow all NEC guidelines and local electrical codes.

For further info, see our website: [www.FXL.com](http://www.FXL.com)

## MU: MacchiaUltimo

FX  
LUMINAIRE

### Super Slot Spike

FX LUMINAIRE MACCHIA ULTIMO FIXTURE.  
SEE PLAN LEGEND FOR WATTAGE, BEAM  
SPREAD, COLOR, AND ACCESSORIES.

AIM FIXTURE A MINIMUM OF 10°  
OFF VERTICAL TO ALLOW WATER  
AND DIRT TO DRAIN OFF LENS CAP.

FINISHED GRADE

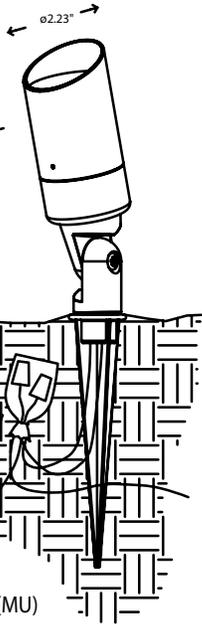
SECTION/ELEVATION

LOW VOLTAGE CABLE  
WITH FX LITESPLICE.  
LEAVE 18" MIN. LOOP  
COILED BELOW FIXTURE  
FOR SERVICE.

MACCHIA ULTIMO (MU)  
FX LUMINAIRE - SPIKEMOUNT

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SCALE: NOT TO SCALE



For a complete listing of  
installation details go to  
[www.fxl.com/learning/  
installation\\_notes.htm](http://www.fxl.com/learning/installation_notes.htm)

#### USAGE NOTE:

If using the MU as a down-  
light: it is recommended to  
remove the front lens glass  
to prevent any internal mois-  
ture build-up. Also, apply a  
silicone sealant internally  
where the socket wires pass  
through to help prevent  
moisture from entering the  
lamp section. Use only MR-  
16's with a built-in front lens  
in this fixture.

#### RISK OF FIRE WARNING:

DO NOT USE FX FIXTURES WITH ANY  
STYLE OF TRANSFORMER THAT EXCEEDS  
14 VOLTS ON THE SECONDARY.

## Installation Guidelines:

### DO NOT EXCEED 50 WATTS IN THIS FIXTURE

Always try to locate fixtures behind plant material or boulders to get them out of sight. To relamp, turn lens cap as if it is threaded, remove lamp and carefully insert new one. Do not touch the actual lamp bud with fingers as this will shorten lamp life. If you do touch lamp bud, clean off with cloth and alcohol. To install cap, start it on an angle so it's halfway on, then twist and push down as if it was threaded. Lens cap can be lubricated on inside to ease installation. To minimize clean-up, keep plastic shipping bag on fixture until just before system testing.

**EVE MOUNT:** Mount as high as possible to allow maximum beam projection. To minimize glare, keep the aiming angle 60° to vertical. Conceal fixtures and cables between beams whenever possible. The 12-16 gauge feed wire should be attached with either nylon C-clamps with stainless screws or plated staples.

For high performance and predictable lamp life, supply fixture with between 11-11.5 volts with all lamps installed and operating. USE FX LUMINAIRE TRANSFORMERS ONLY — FX WILL NOT WARRANTY OR REPLACE ANY COMPONENTS DAMAGED BY OTHER MANUFACTURER'S EQUIPMENT. The FX transformer is specifically designed for the high tech lamps used in our fixtures. The use of inferior power supplies can cause premature lamp failure and other problems including the risk of fire.

### IMPORTANT SAFETY INSTRUCTIONS FOR MU-50: LIGHTED LAMP IS HOT!

**WARNING** - To reduce the risk of fire or injury to persons:

Turn off/unplug and allow to cool before replacing the lamp. Lamp gets HOT quickly! Contact only switch and plug when turning fixture on. Do not touch hot lens, guard or enclosure. Keep away from materials that may burn. Do not touch the lamp at any time. Use soft cloth. Oil from skin may damage lamp. Do not operate the luminaire fitting with a missing or damaged shield.

## Why use the LiteSplice?

Without a waterproof splice connection any system will develop voltage loss and low grade shorts making your lighting professional life hell. Below is our proven method of insuring you and your client years of trouble free high performance from the FX System.

**FX Does NOT recommend the use of Quick Clip style connectors or Pre-filled wirenuts because they are not waterproof and will rot out creating resistance and shorts. A little more time spent during installation is repaid handsomely in reduced service calls.**

### Step 1

Begin with a 12, 10 or 8 gauge direct burial low voltage cable mainline. (Use stranded 12 gauge THHN (120v style) wire for conduit runs such as wall lights or trellis lights).

### Step 2

Cut the mainline cable in half and strip back 3/4" of the insulation from each side to expose the multi-stranded copper conductor.

### Step 3

Join one of the fixture's conductors to each side of the mainline as shown in the diagram. Since there is no polarity in low voltage, it doesn't matter which side is which when joining the conductors together. Install a wirenut on each side. Now is the time to test the individual circuits (cables) for voltage drop. If you were a good boy and followed the Circuiting Guidelines included with the FX MultiTap Transformer you should be able to provide each fixture with between 10.5 - 11.5 volts with all lamps installed and operating. Test now before you install the SpliceGel because it's easier to stick the VoltMeter's probes inside the wirenuts to get a reading.

### Step 4

Pump about two squeezes of SpliceGel into the baggie and insert both wirenut connections into it. Push out the air and work the Gel into the bottom of the wirenut assuring a waterproof connection. Install the cable tie as shown and cinch down to complete the most cost effective permanent waterproof low voltage connection known to man. The Gel will set-up rock hard in about 3 days. It's best to leave 12-18" of slack at each fixture to allow for relocation or if you need to splice in additional cables in the future. Since this is a permanent splice solution — you will need to cut it off and start from scratch to add cables to the splice.

### Step 3

### Step 4

