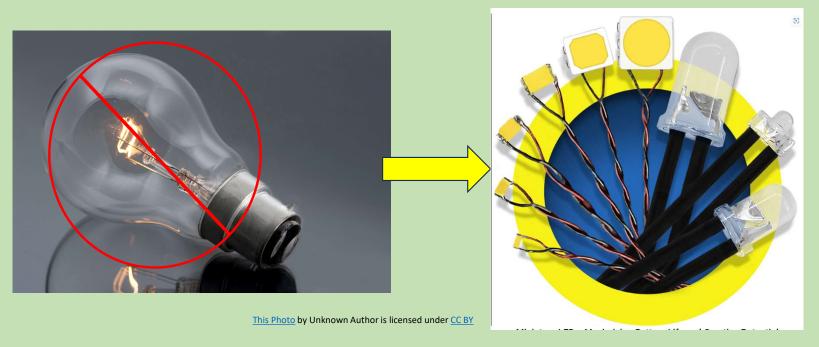
STRUCTURE LIGHTING USING LEDs

An Overview of How I Wire Up LEDs In My buildings



What we'll be going over:

- > Photos of a few of the buildings on my layout that are lighted
- > The materials I use to light the buildings, including:
 - > LEDs
 - Power Supplies
 - > Wire
 - > Power Distribution Blocks (Terminal Blocks)
- > How I wire up the components
- How I run the power to the buildings
- > Typical ways I install the LEDs into a building

A Few Of The Lighted Buildings On My Layout







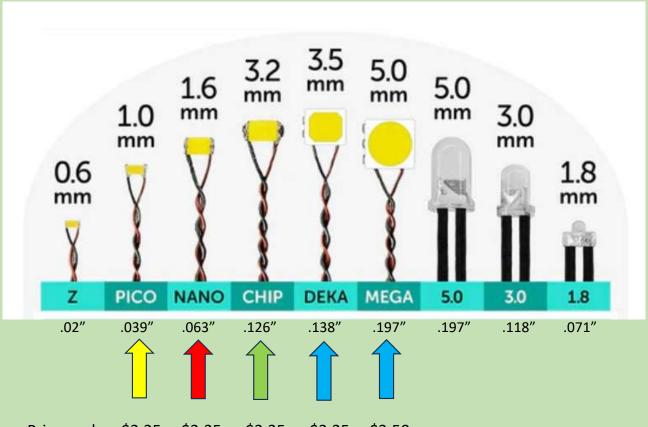








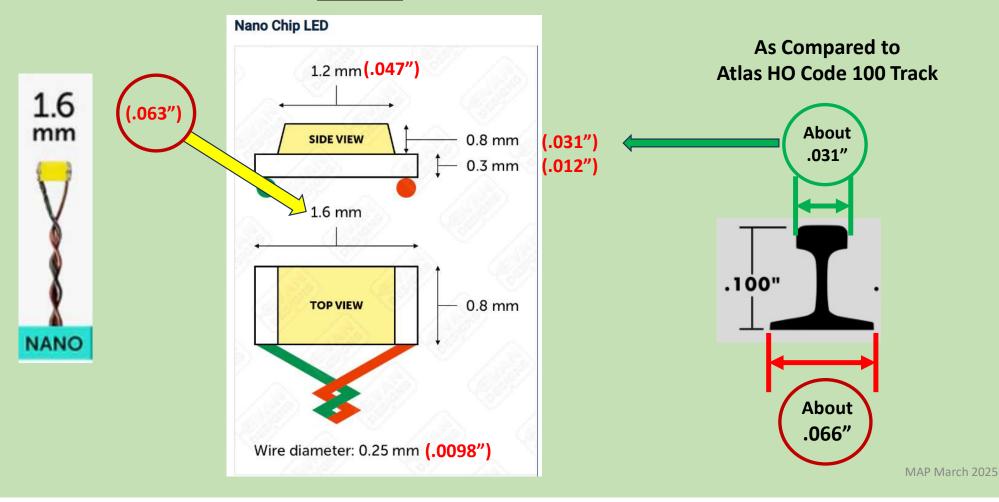
Materials: LEDs



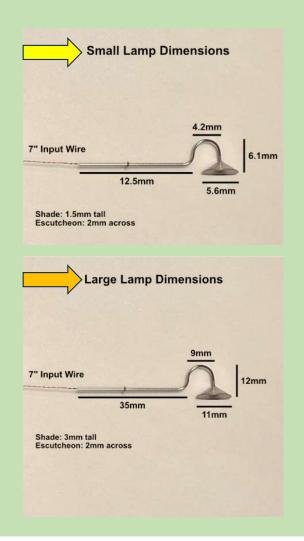
Price each: \$2.25 \$2.25 \$2.35 \$2.25 \$2.50



Dimensional Comparison of An Evan Designs NANO LED to Atlas Code 100 Track



Materials: Evan Designs Goose Neck Lamps









Materials: LEDs – Voltage

- > The Evan Design's LEDs come in three different voltages:
 - > 3 Volt DC (this is the one I exclusively use)
 - > 5-12 Volt DC
 - > 7-19 Volt AC/DC/DCC*
- ➤ Their LEDs come Pre-Wired in the following lengths:
 - > 8 inches (this is the length that I use)
 - > 14 inches



7-19 volt Universal AC/DC/DCC lights are already set up are already set up with a resistor and rectifier for your power supply, AC or DC from 7-19 volts.



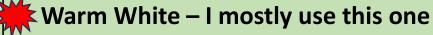
Materials: LEDs -

Colors





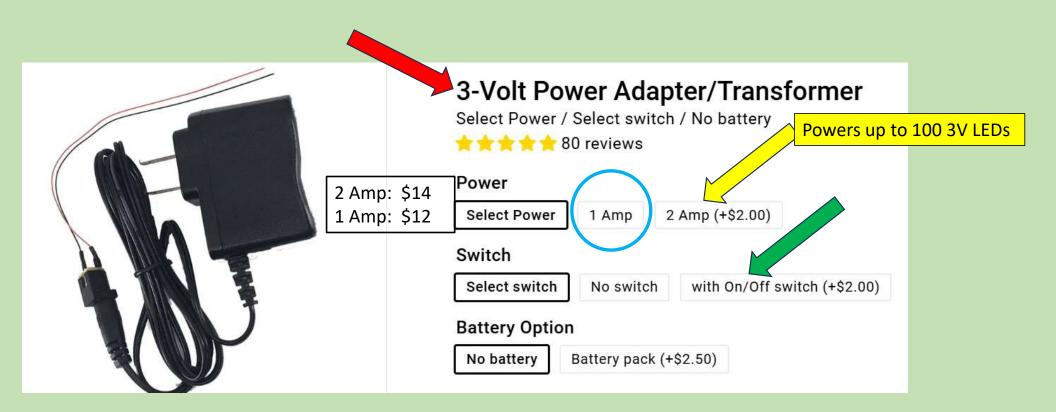
EVAN's also offers other colors



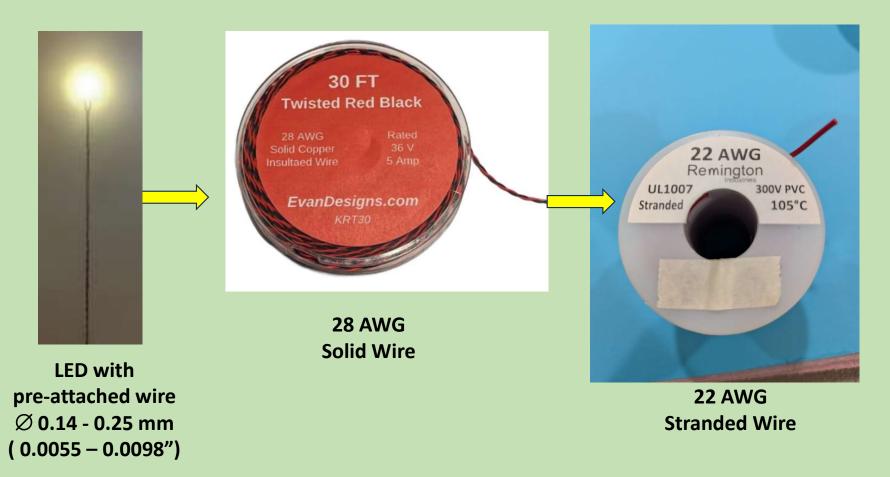
Cool White – I've used this color as well



Materials: Power Supply

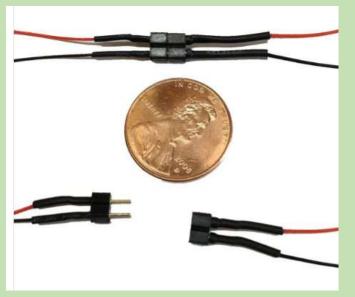


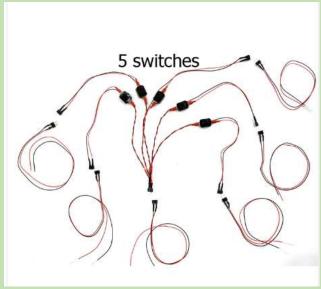
Materials: Wire

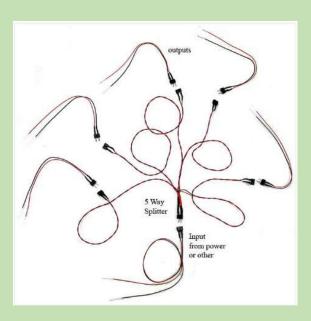


JP2 Julia Post, 3/3/2025

Materials: Connectors, Etc.



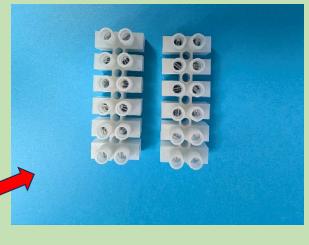




Materials: Power Distribution Blocks & Terminal Strips



Miller Engineering Power Distribution Block

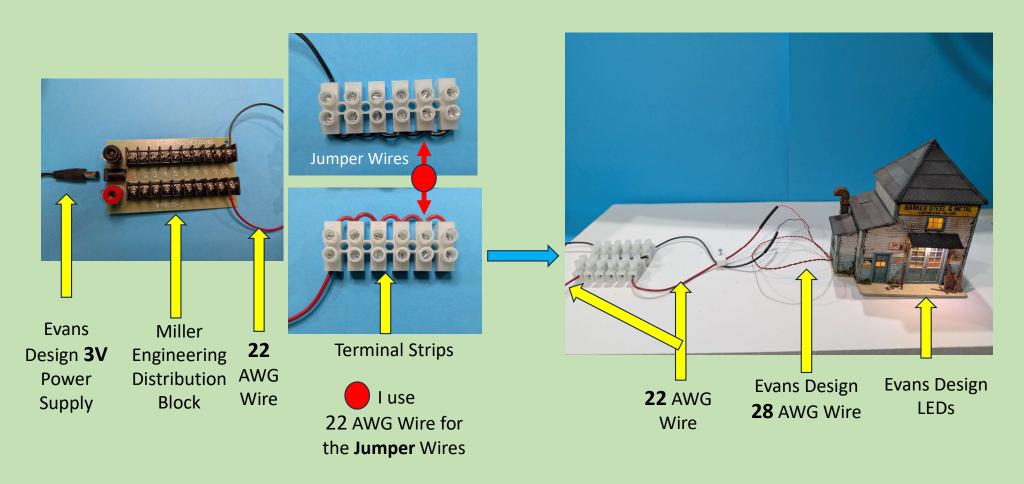


European Style Terminal Strips (I use this style. Thanks Scott!)



Various Other Terminal Strips

Visual Diagram of Running Power to Buildings

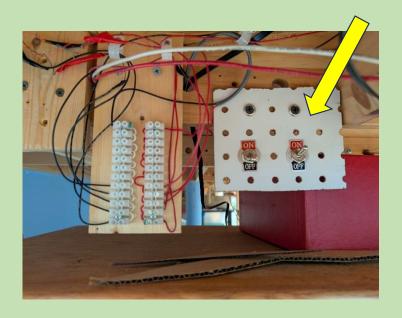


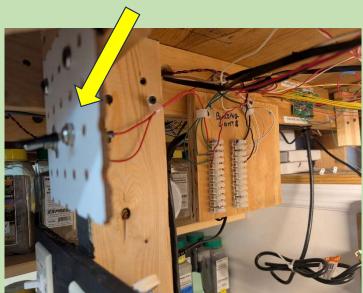


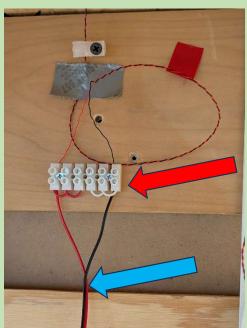
Under The Table Control of Power to Buildings:



ON/OFF Switches







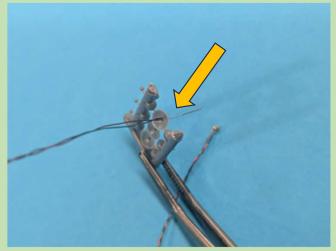
This strip currently shut off at power supply

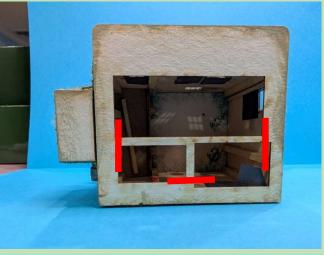
MAP March 2025

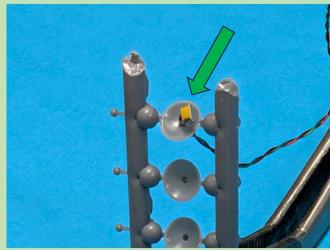
Wiring LEDs Into Buildings

- Wiring a Small Pre-Built Building: #1 and #2
- ➤ Wiring a Large Pre-Built Building: #1 and #2
- Wiring A Building And Adding An Interior Room While It's Being Built



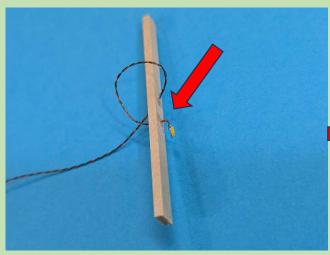


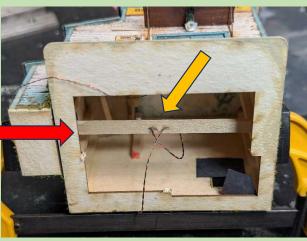


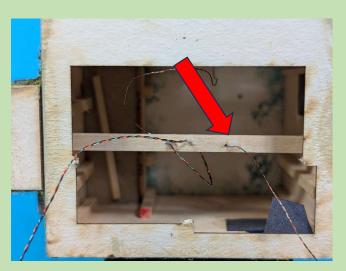


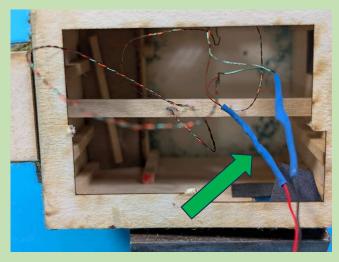


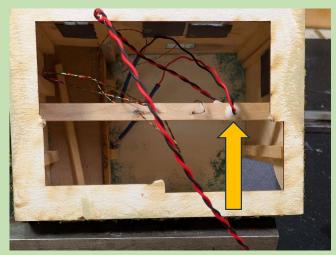












Let There Be Light



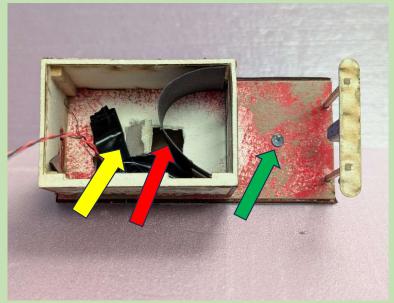
(Using a Spare Power Supply At the Bench)

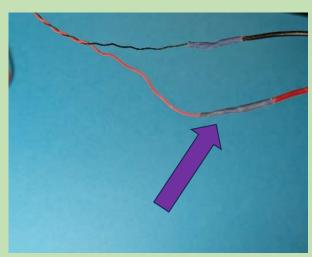




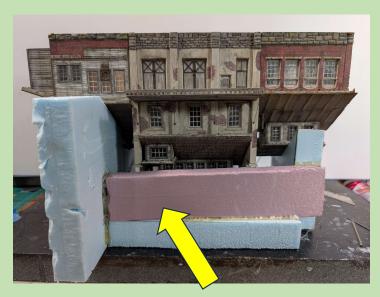
NOTE: I pre-test each LED before using them in each building

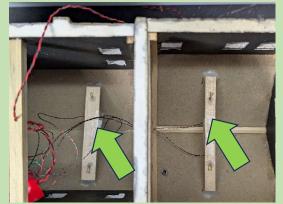


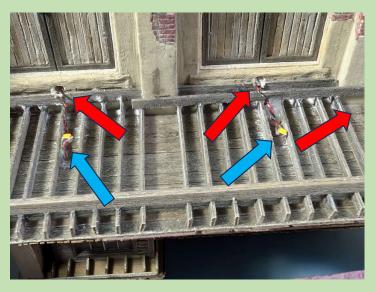


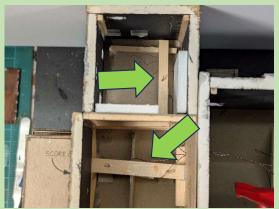


Wiring A Large Pre-Built: Building #1









Wiring A Large Pre-Built: Building #1





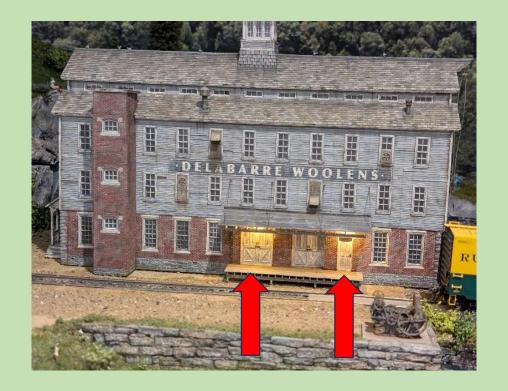






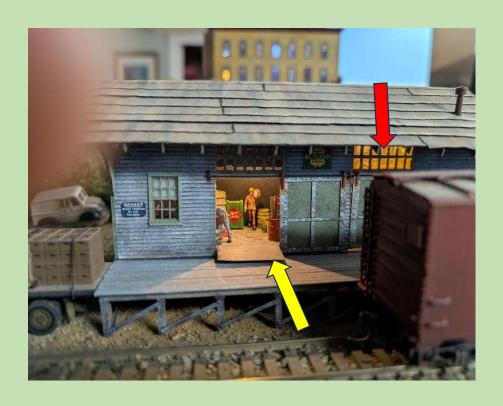
Wiring A <u>Large</u> Pre-Built Building #2

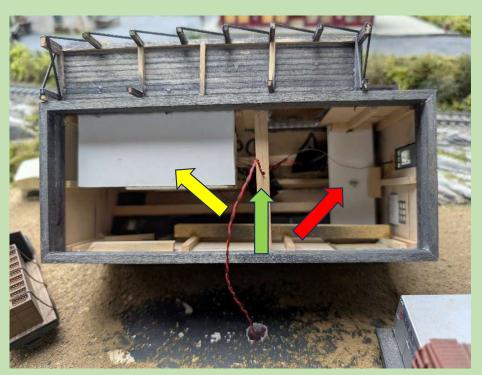
(4"D x 12" L x 7" H)



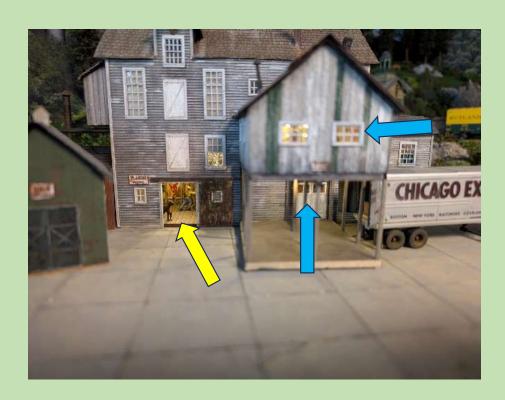


Wiring A Building And Adding An Interior While It's Being Built: Building #1





Wiring A Building And Adding An Interior While It's Being Built: Building #2





MAP March 2025



QUESTIONS?

