



**ANOTHER EPISODE OF**



**RICK'S LAYOUT**

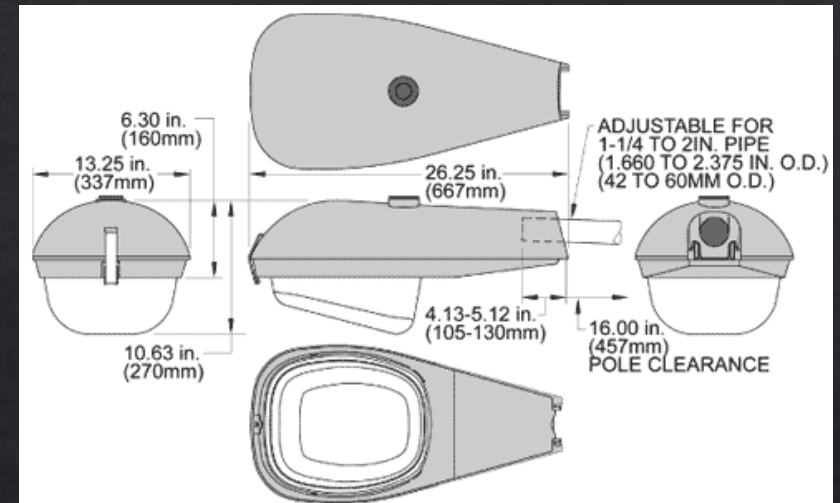
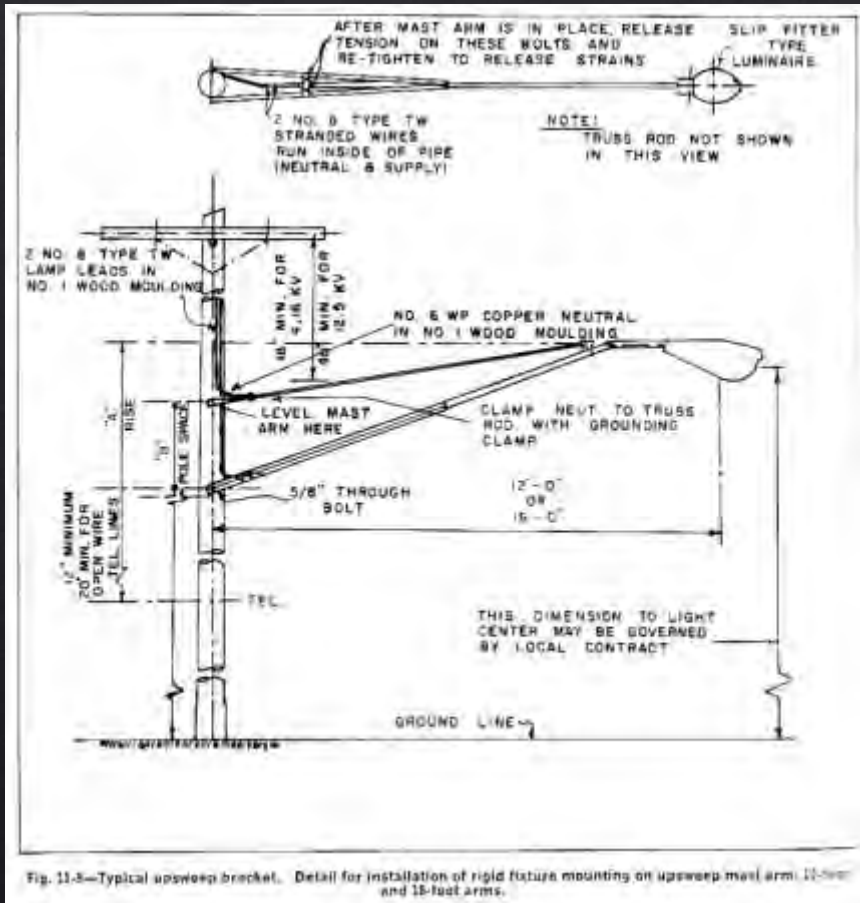
# **Light Up Your Layout** **with the** **Woodland Scenics Just Plug System**





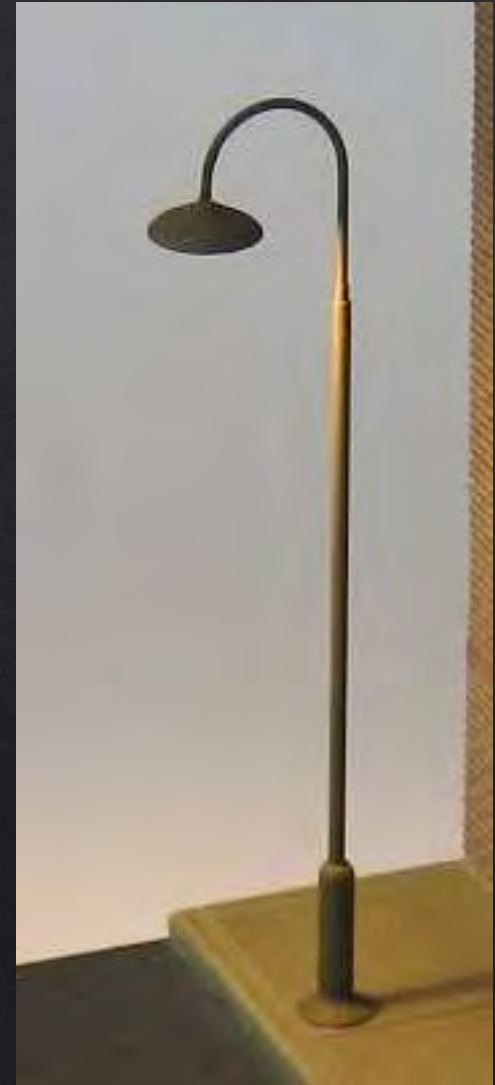
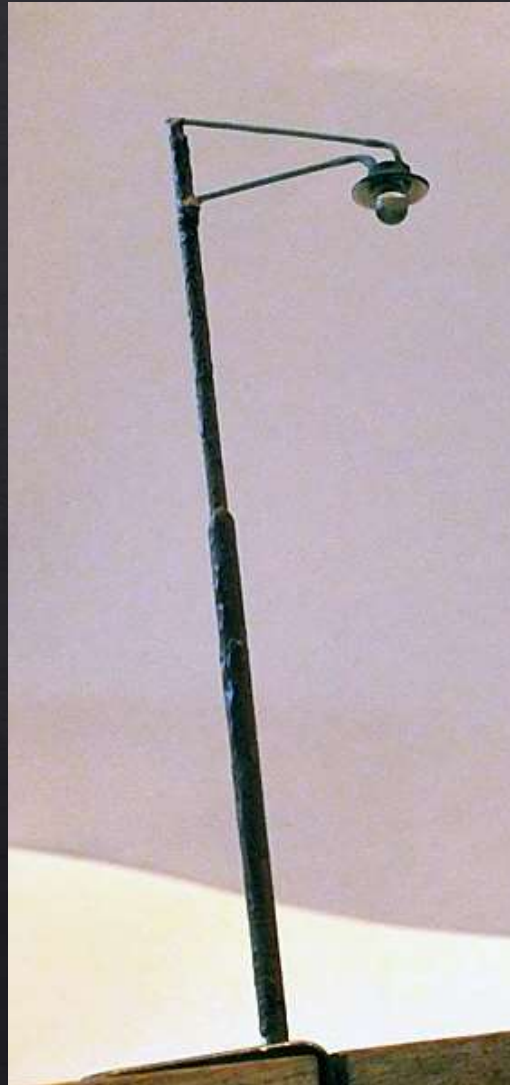


# Prototype Street Lights





# DIY Alternatives



# Purchased Alternatives

Walthers SceneMaster Modern  
Long Arm Street Light



Filament Bulb  
\$19 - \$25 for one light

Atlas Curved Streetlight



LED Light  
\$19 - \$25 for one light

# Purchased Alternatives

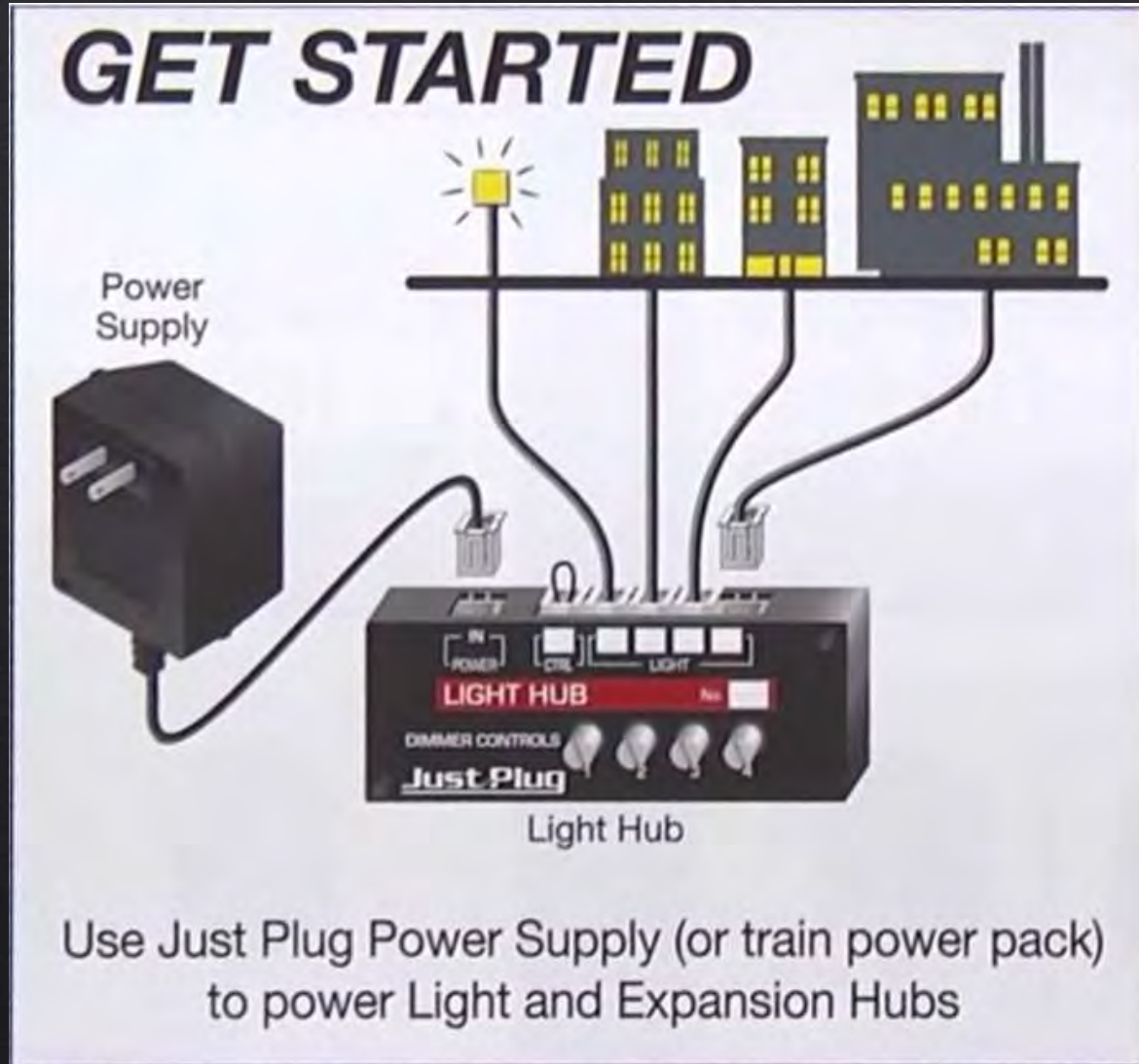


Woodland Scenics Wooden Pole Street Lights  
\$19 - \$25 for **THREE** lights





# Basic System



# Basic System



Power Supply JP5770

**MSRP - \$19.99**

Prices \$14.99 – \$24.99  
(includes shipping)



Lights & Hub Set JP5700

**MSRP - \$19.99**

Prices \$14.99 – \$24.99  
(includes shipping)

**Total Cost : \$30 - \$50**

# Basic System



Old Train Power Pack

**FREE!**

If you have one available



Lights & Hub Set JP5700

**MSRP - \$19.99**

Prices \$14.99 – \$24.99

(includes shipping)

**Total Cost : \$15 - \$25**



# Basic System



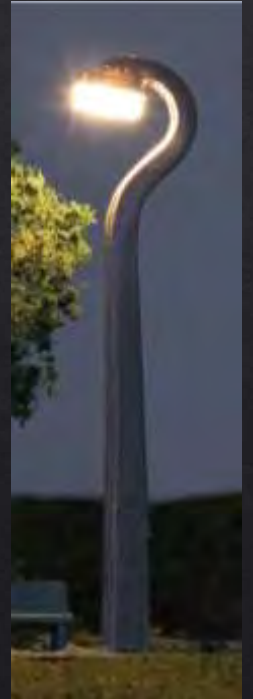
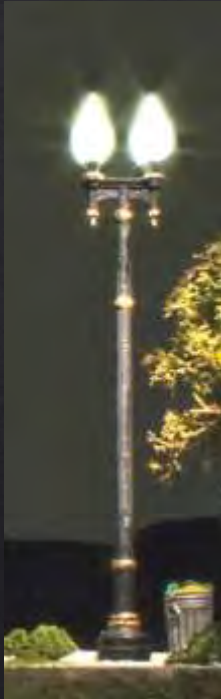
Connecting Cables JP5760

**MSRP - \$5.99**

Prices \$4.99 – \$9.99

(includes shipping)

# Enhancements Street Lights



All available in O, HO and N Scale

# Enhancements

## Exterior Building Lights



All available in O, HO and N Scale



# Enhancements

## Other Building Lights



5 mm

x

5 mm

0.196"

x

0.196"



1 mm

x

0.5 mm

0.039"

x

0.019"

# Different Colors of LED's Available



Warm White



Yellow



Red



Green



Blue



Cool White



Orange

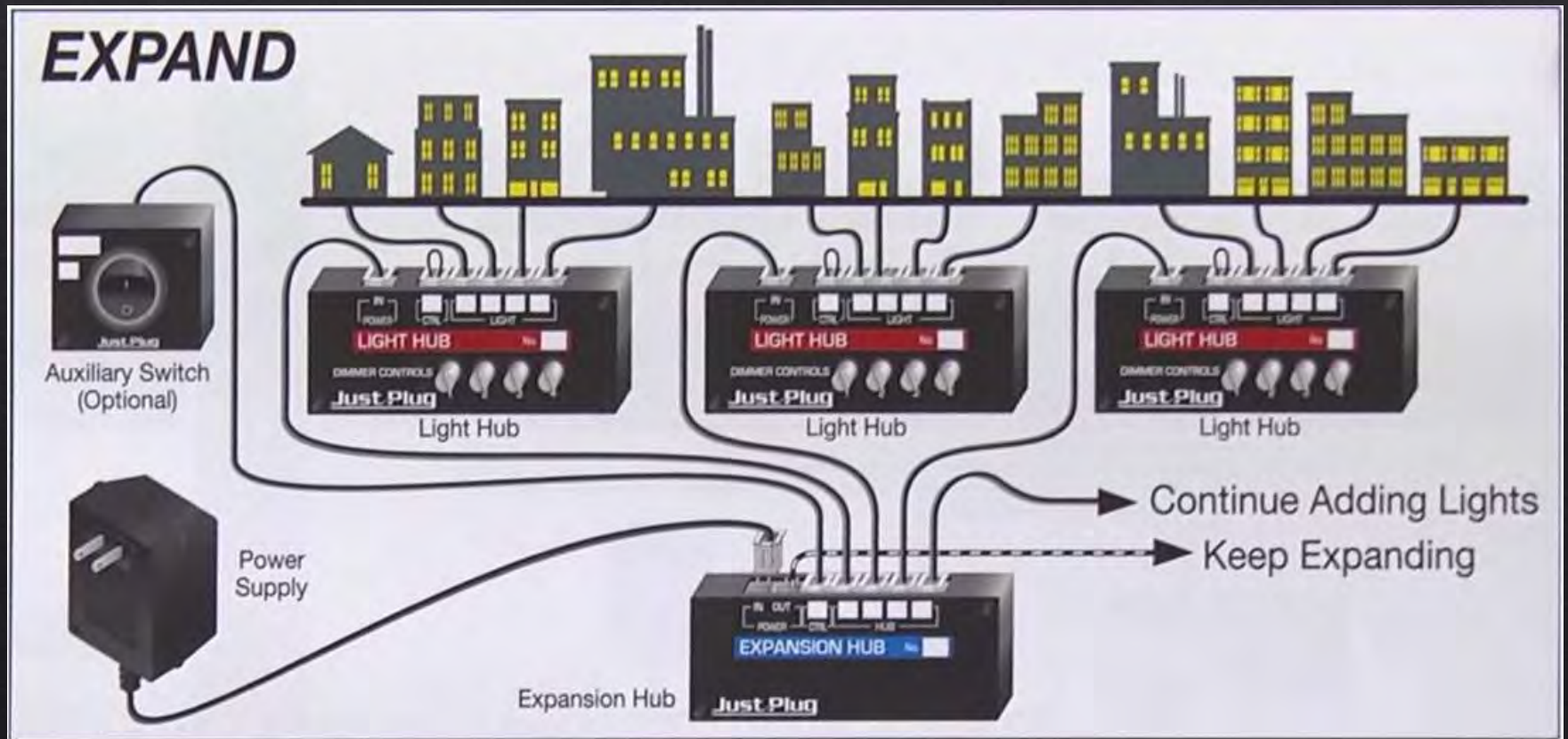


Flashing Red



Flashing  
Yellow

# Expanded System





# Expanded System



Expansion Hub JP5702

MSRP - \$15.99

Prices \$13.99 – \$19.99  
(includes shipping)



Auxiliary Switch JP5725

MSRP - \$9.99

Prices \$7.59 – \$11.99  
(includes shipping)

# Additional Tools



Light Diffusing Window Film JP5715

MSRP - \$16.99

# Additional Tools

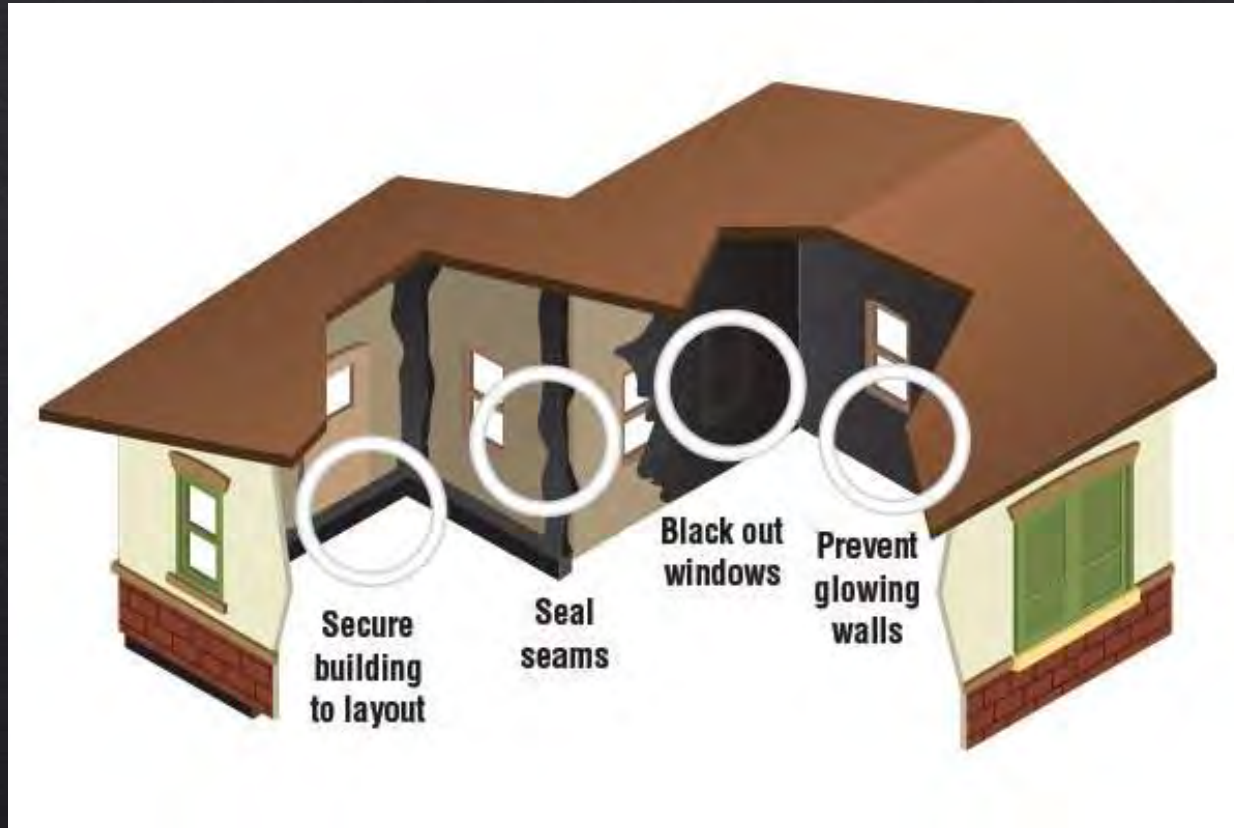


Light Block Kit JP5716

MSRP - \$16.99



# Additional Tools



# Additional Tools



# Other Lighting Add-ons

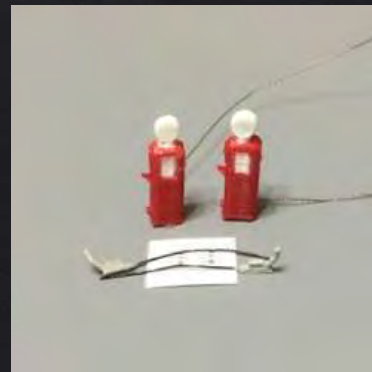
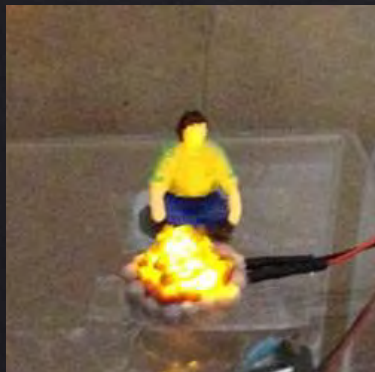
CatzPaw Innovations, LLC

[catzpaw.com](http://catzpaw.com)

3D Printed w/JST Plug

N HO S O G Scales

\$14.99 – \$32.99





**Do It Yourself  
lighting using  
components  
from the  
Just Plug System**

# DIY Lighting System

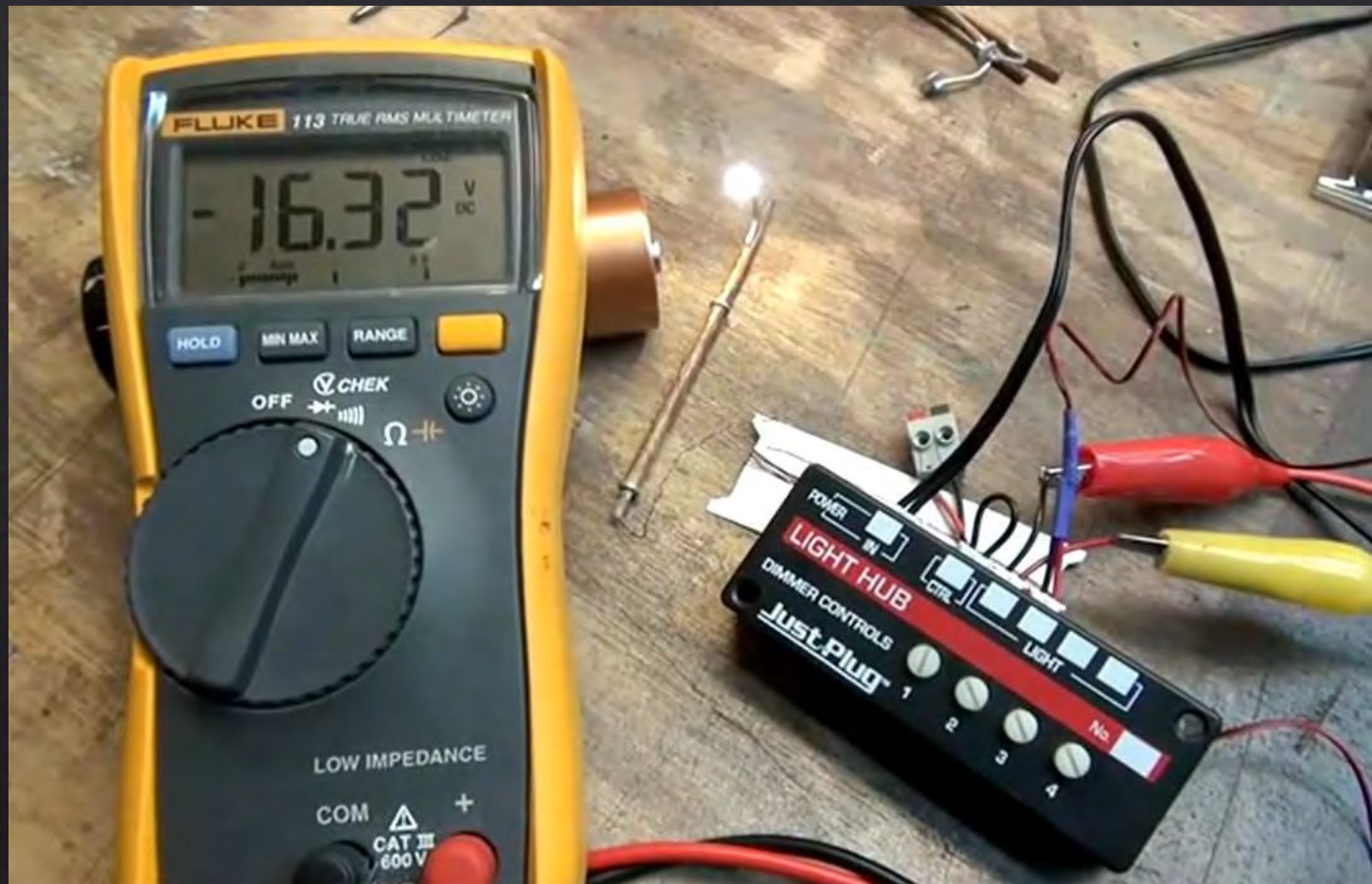




# DIY Lighting System

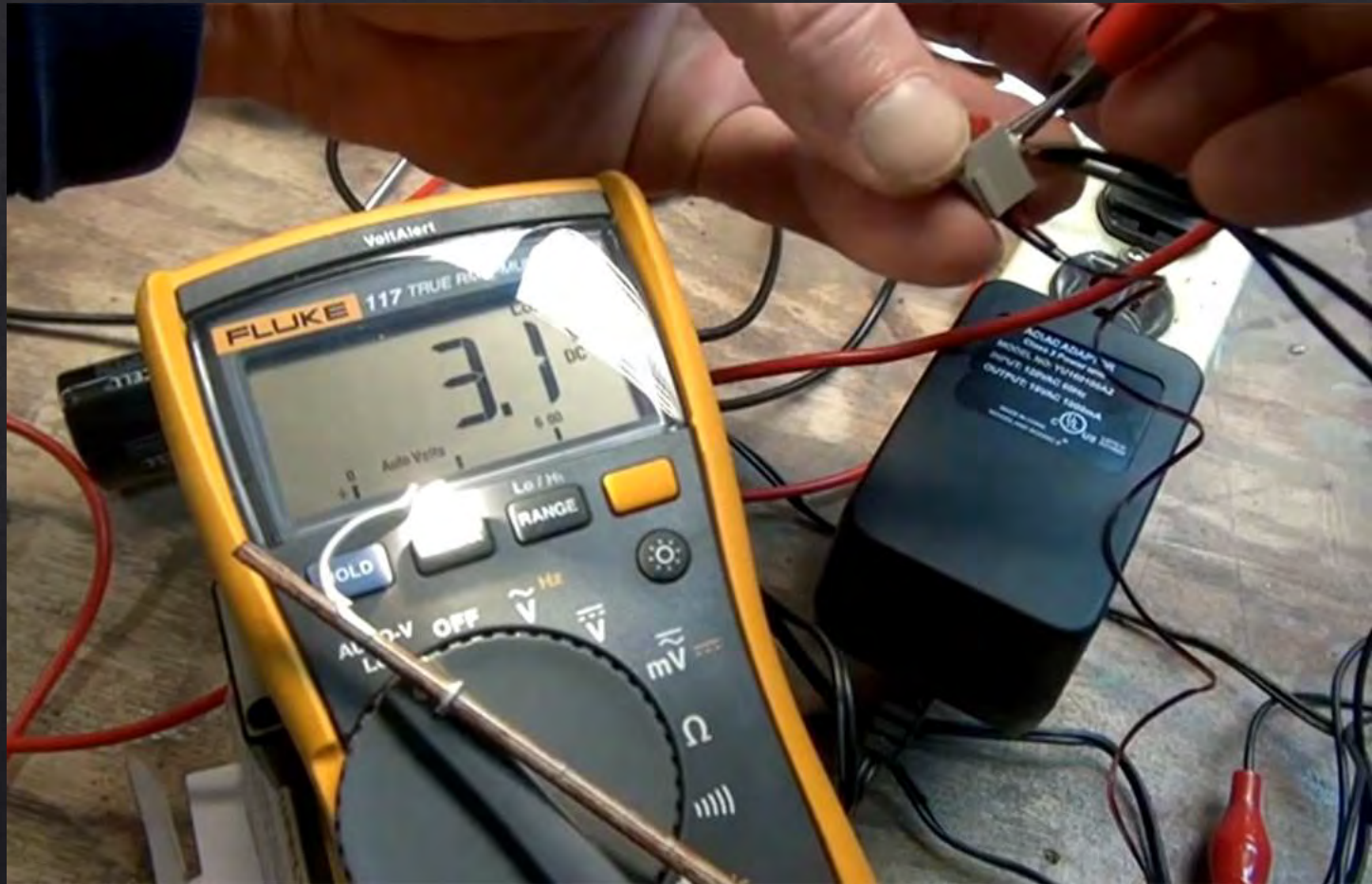


# DIY Lighting System





# DIY Lighting System



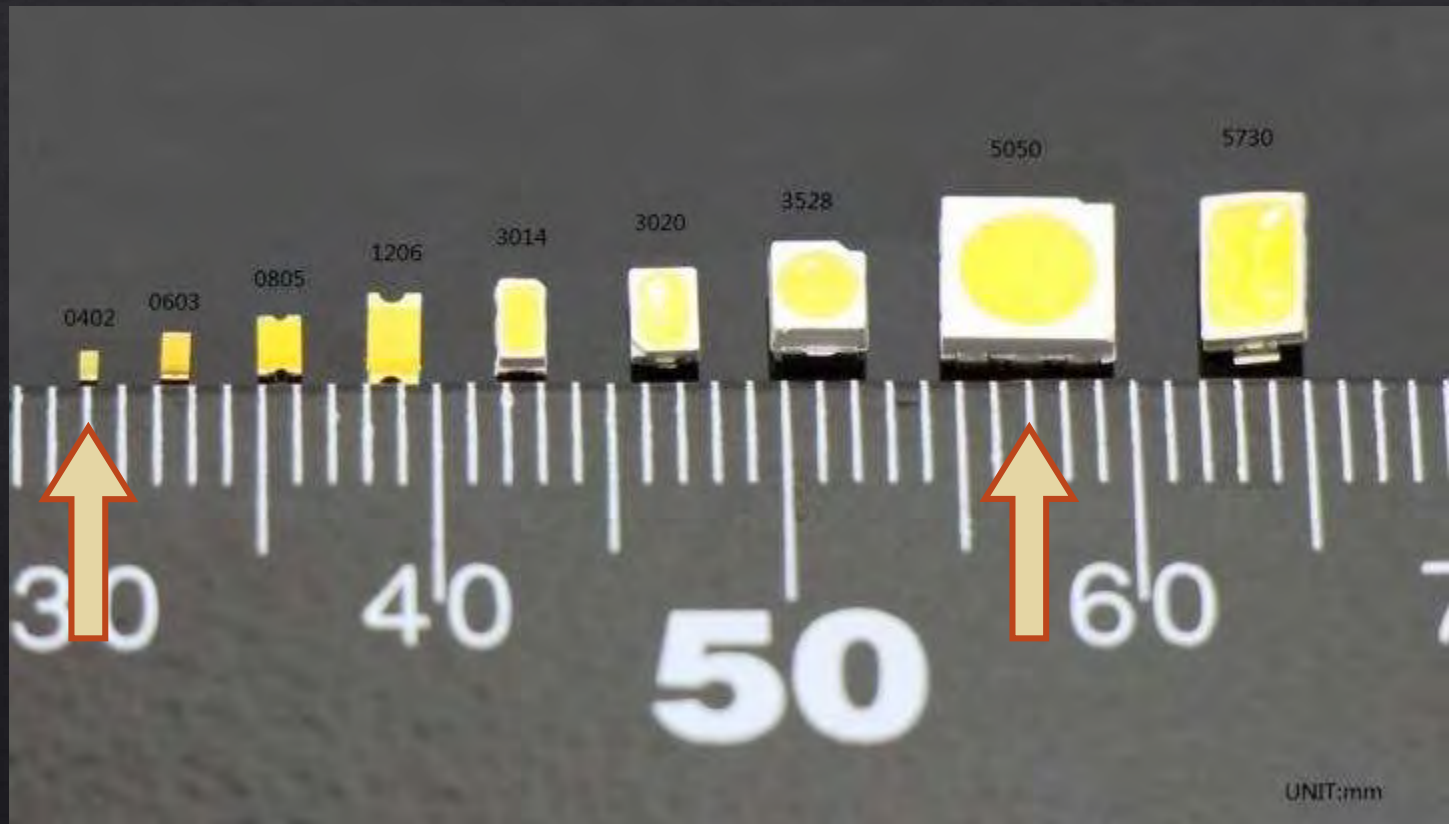
# DIY Lighting System

## Basic Supplies

- LEDs
- Resistors
- Wire
- Connectors
- Power Supply
- Plain PC Board (Ties)
- Heat Shrink Tubing

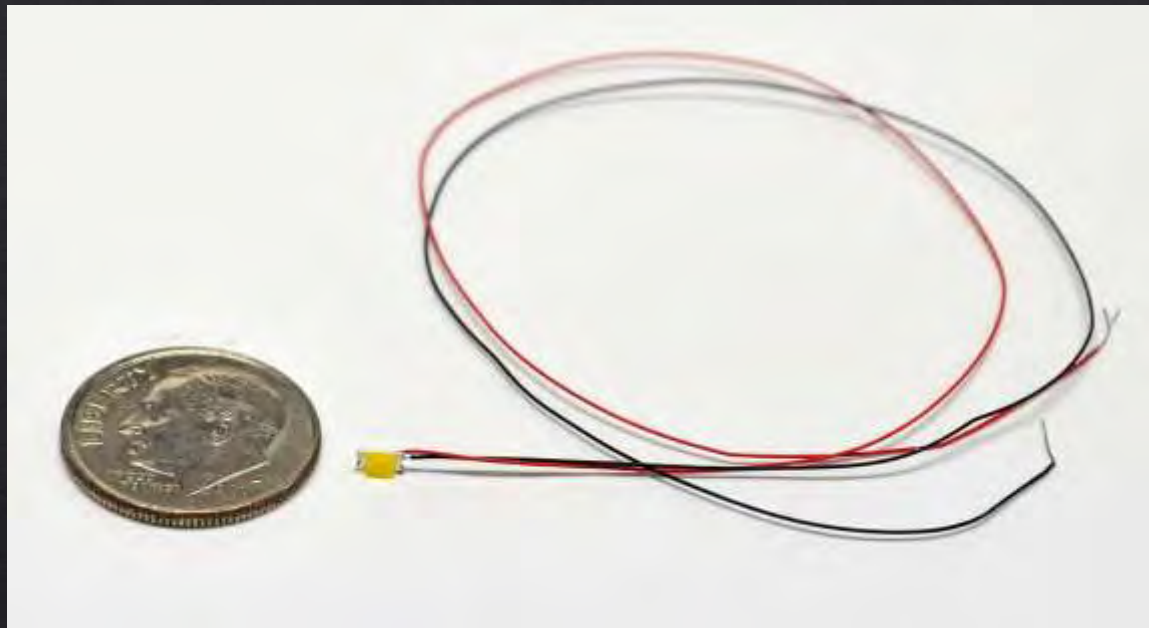
# DIY Lighting System

## LED lights Sizes



# DIY Lighting System

## LED lights Sizes

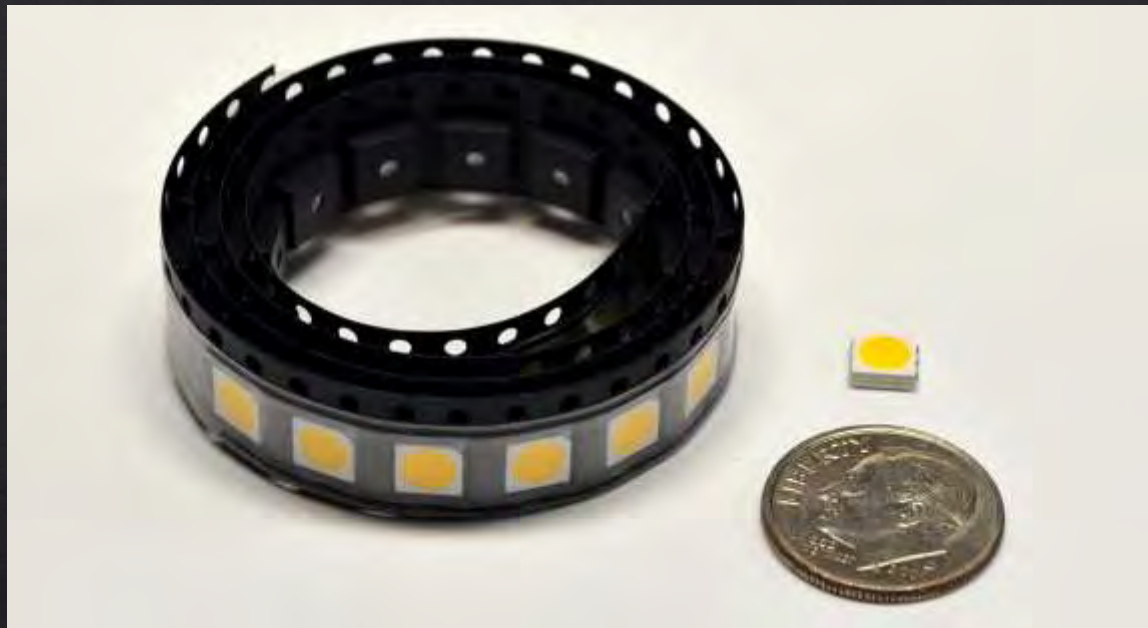


1206 Pre-Wired SMD Warm White LED's  
Ebay Price: 10 Pieces - \$8.99 & Free Shipping



# DIY Lighting System

## LED lights Sizes



5050 SMD Warm White LED's

Ebay Price: 50 Pieces - \$5.29 & Free Shipping

# DIY Lighting System

## Resistors



470 Ohms



680 Ohms



1000 Ohms

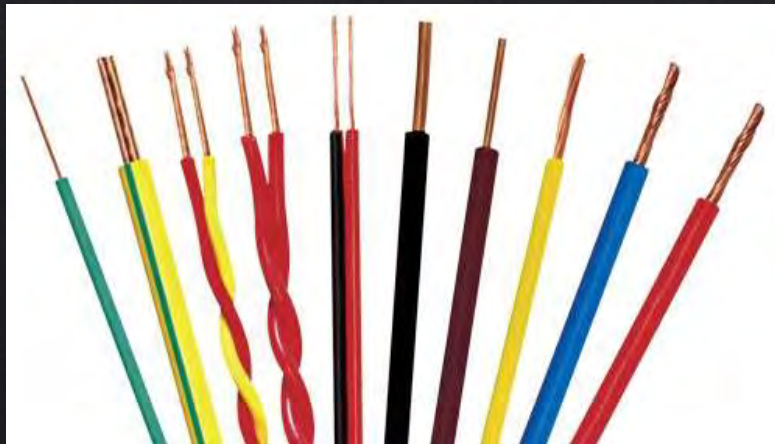
# DIY Lighting System

## Wire



Many choices:

24 - 30 AWG  
Multi-strand Copper



30 - 50 AWG  
Enameled  
Magnet Wire

# DIY Lighting System

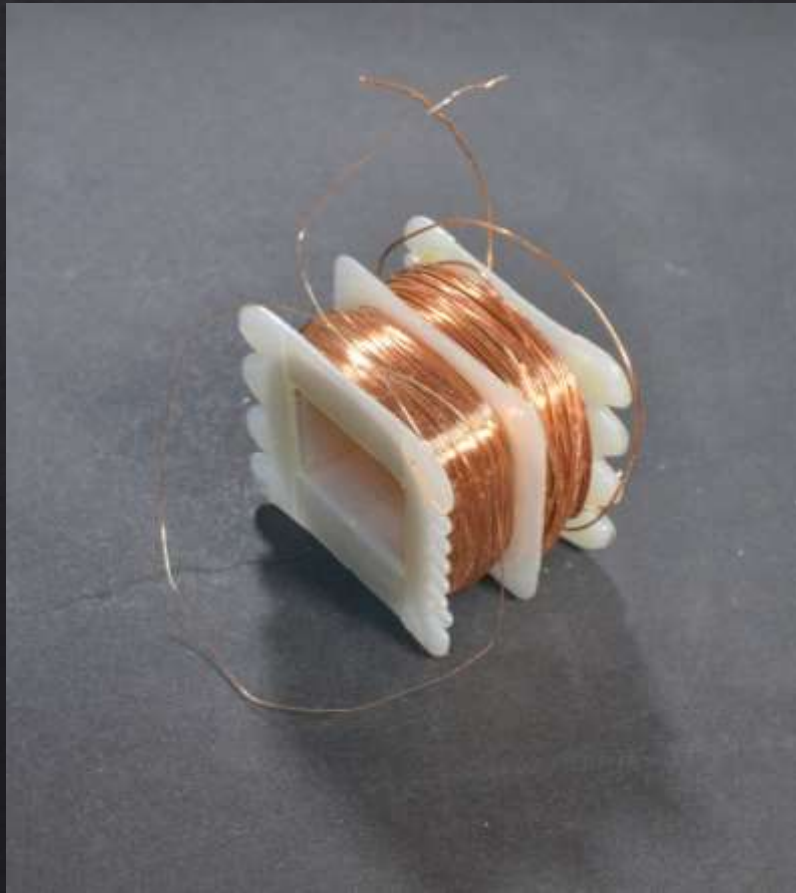
## Wire





# DIY Lighting System

## Wire

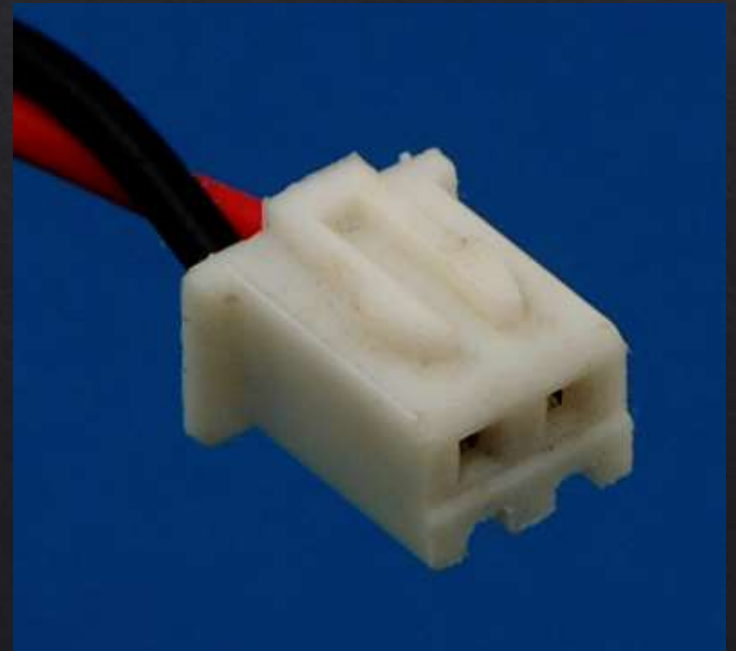
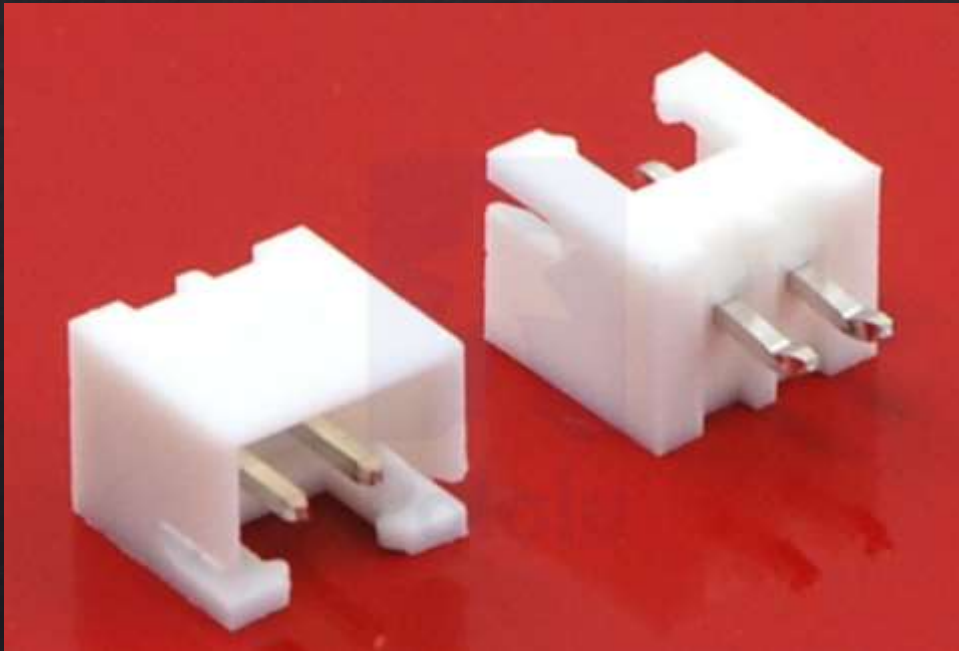


30 & 36 AWG  
Enameled  
Magnet Wire

# DIY Lighting System

## Connectors

Micro JST 2.5 PH 2 Pin Connector



# DIY Lighting System

## Connectors



Bettal Micro JST 2.5 PH 2 Pin Battery Connector Plug  
with 4.75" Wire, 50 Sets  
Amazon Price - \$4.49 & FREE Shipping

# DIY Lighting System

## Power Supplies

18V AC – 1A





# DIY Lighting System

## Printed Circuit Board

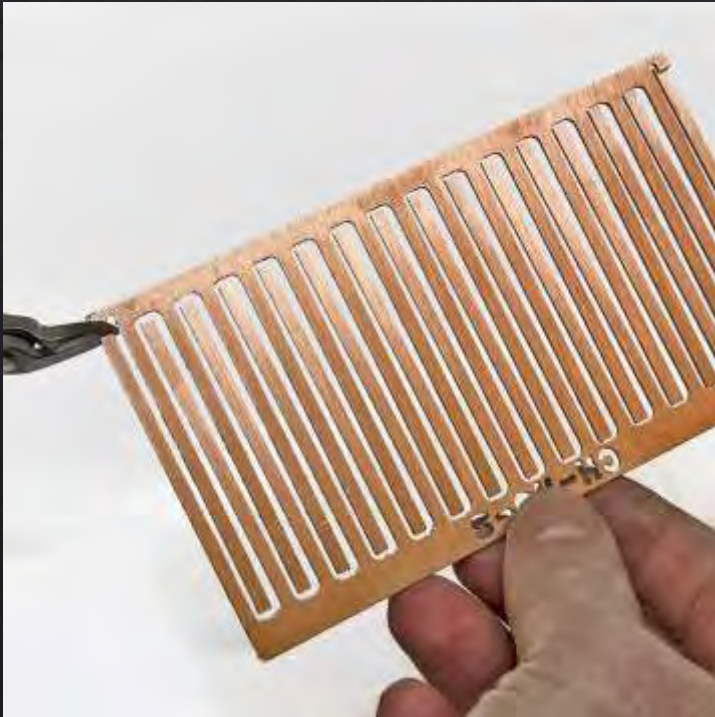
Double Sided Copper Clad



# DIY Lighting System

## Printed Circuit Board

### Model Railroad Ties



# DIY Lighting System

## Building LED Lights



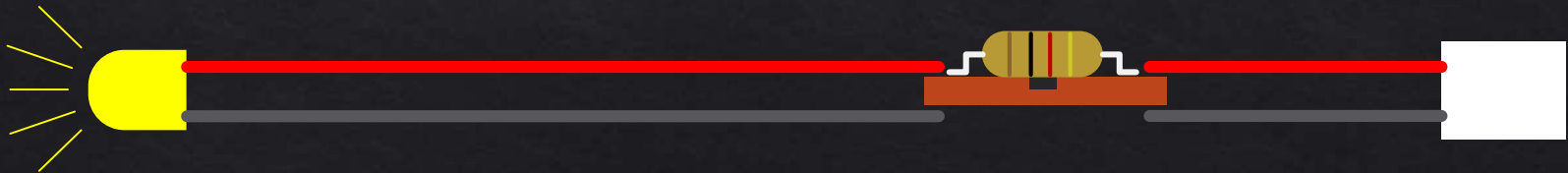
# DIY Lighting System

## Building LED Lights

### Two Types of Wiring Construction



Pre-Wired LED's



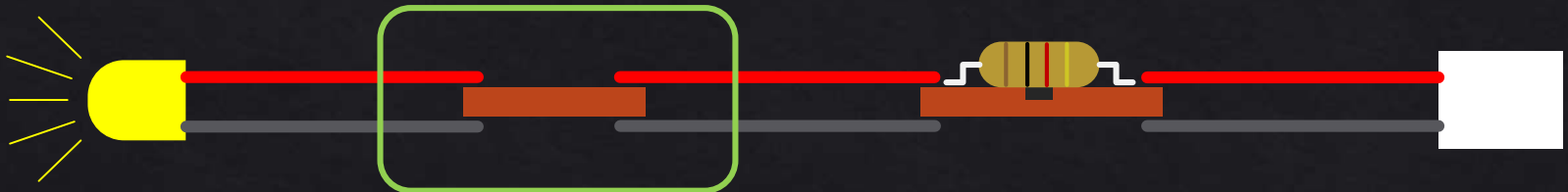
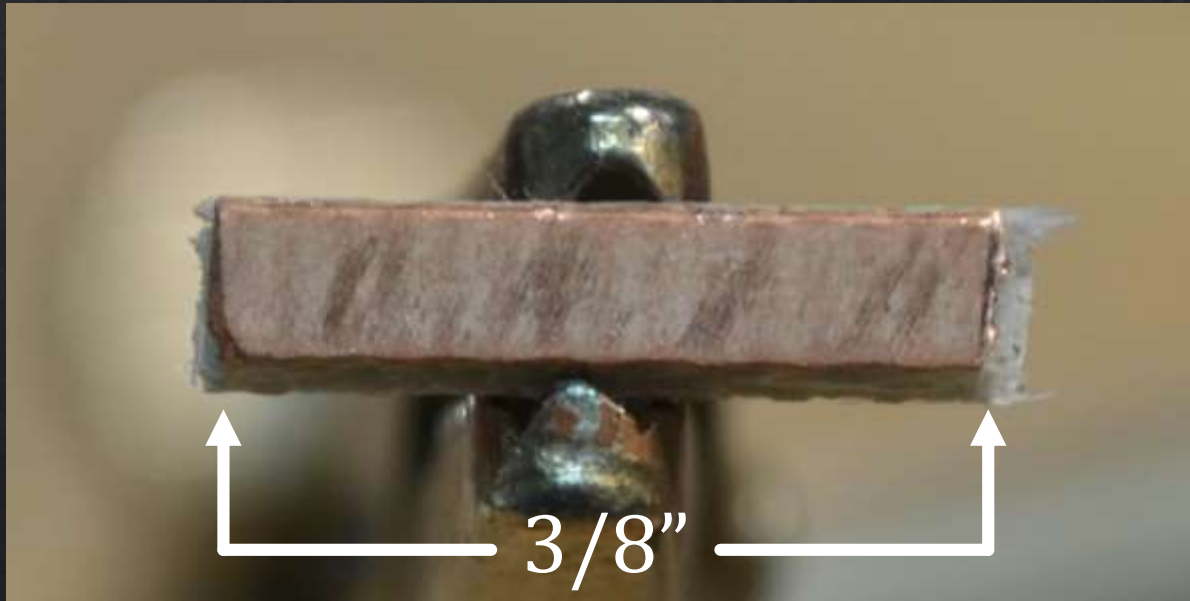
LED's Without Leads



# DIY Lighting System

Building LED Lights (Pre-Wired)

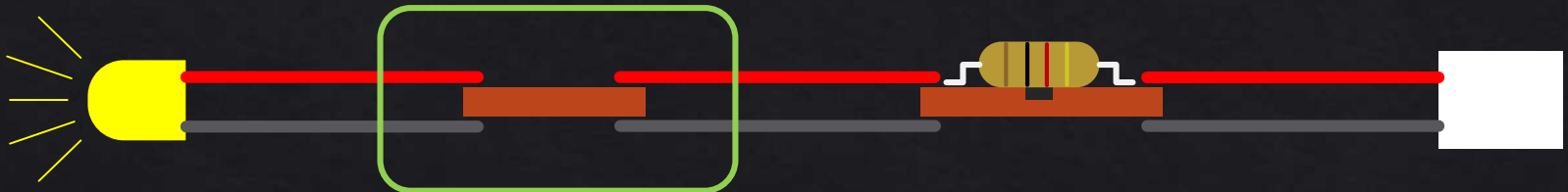
LED Connection



# DIY Lighting System

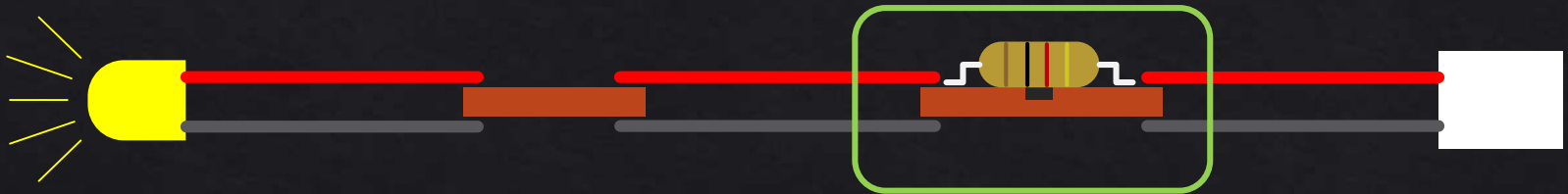
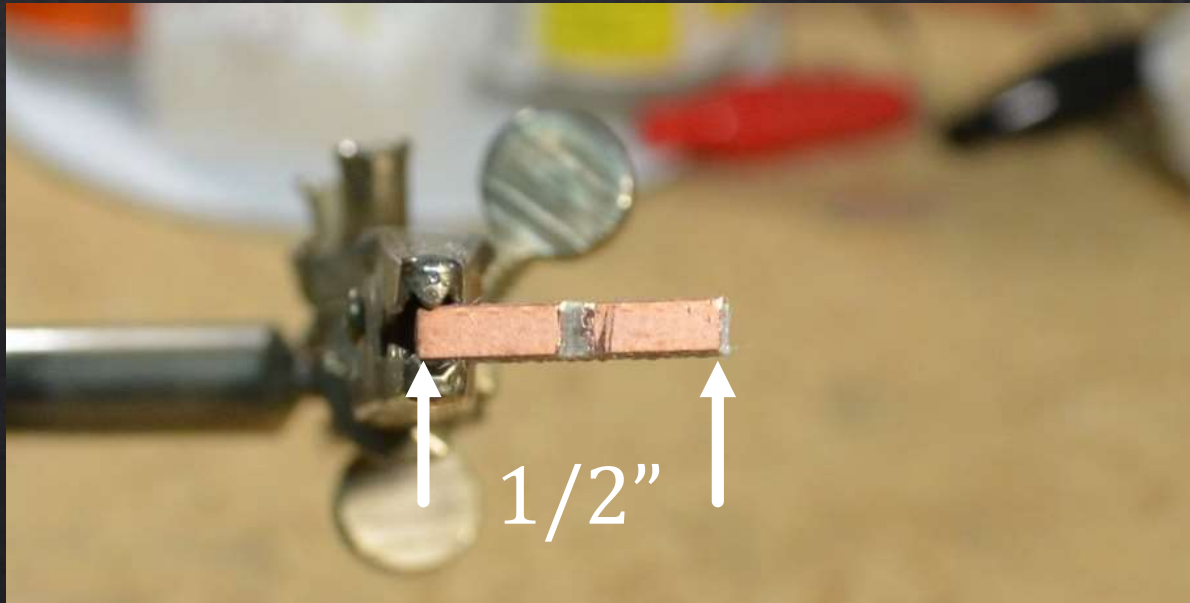
Building LED Lights (Pre-Wired)

LED Connection



# DIY Lighting System

Building LED Lights (Both Types)  
Resistor Connection





# DIY Lighting System

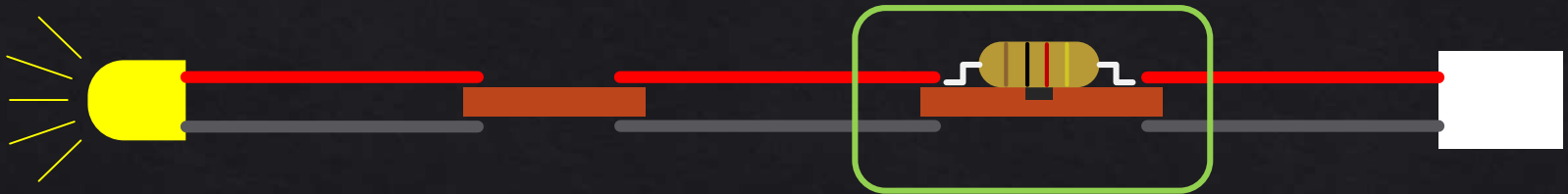
Building LED Lights (Both Types)

Resistor Connection



# DIY Lighting System

Building LED Lights (Both Types)  
Resistor Connection



# DIY Lighting System

Building LED Lights (Both Types)

Resistor Connection

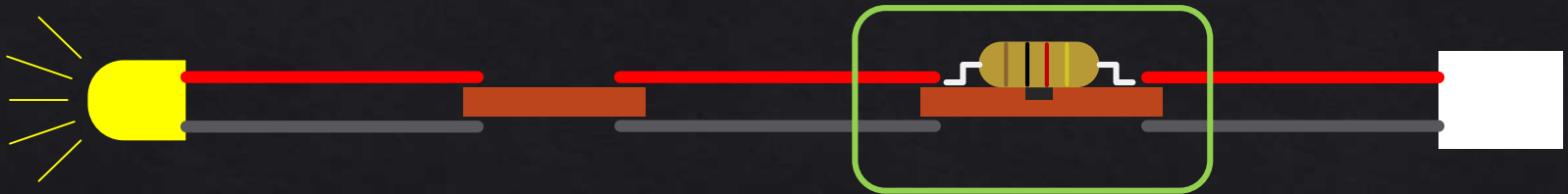




# DIY Lighting System

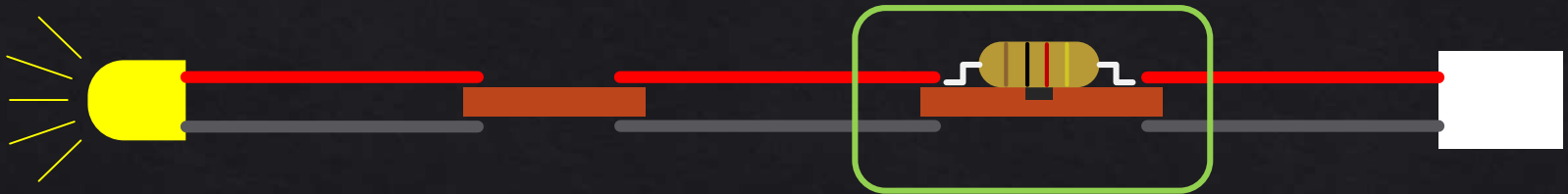
Building LED Lights (Both Types)

Resistor Connection



# DIY Lighting System

Building LED Lights (Both Types)  
Resistor Connection



# DIY Lighting System

## Building LED Lights



# Results





# Results



# Results



# Results



# Results





# Results





*That's all Folks!*