

# Electroluminescent (EL) Wire

## Description:

Flexible Neon Wire, EL Wire, also called Electroluminescent (EL) Wire is the new generation product in the global lighting and display industry. Wrapped by a colorful plastic tube on its surface, it appears similar to common telephone wire, emitting light along its entire length but without any heat radiation.

With a much lower power consumption, energy saving, and environmental protection, it opens a new era in the lighting and display field.

## Features

- Available in 2 Different Diameters  
2.3mm  
3.2mm
- Standard 9.84 Ft. (3 Meter) Length with Pre-Wired Connector
- Environmentally Friendly and Energy Saving, uses 50 – 70% less energy than LED lamps, 20 – 40% less than Rope Lighting, and 1 – 10% less than Neon Lighting
- Extremely Flexible, can be Bent, Knotted, Cut, Stretched, etc. without Compromising the Lighting Effect
- Can Be Mounted to Almost Any Decoration Surface using Transparent Adhesive Tape, Glue, Clips, Thread Nail, etc.
- Applications Include:  
Indoor and Outdoor Advertisements  
Shop Windows, Doors, Furniture, Walls, Roofs, etc.  
Cars, Boats, and other Vehicle Ornamentation  
Indoor and Outdoor Decoration  
Guidance Lighting such as Safety Signs, Stairways,  
Doorplates, and Temporary Markings  
Toys, Arts & Crafts, Garments, Sporting Equipment, etc.



## Specifications

**Optimum Operating Voltage:** 90 – 120VAC

**Optimum Operating Frequency:** 1500 – 2000Hz

**Power Dissipation:** 200mW

**Luminous Intensity:** 80 – 100cm/m<sup>2</sup> (90 – 100V, 1.8 – 2000Hz)

**Axial may Withstand the Strength:** ≤ 1KG

**Curving Scope:** Greater than four times the diameter

**Twist Angle:** < 30°

**Working Conditions:** -20° to +55°C (-4° to +131°F) / < 45%

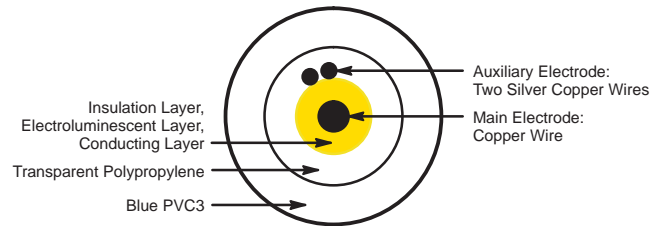
**Depositing Environment:** -20° to +60°C (-4° to +149°F) / < 80%

**Working Life:**

**Voltage:** 100V

**Frequency:** 400Hz

**Normal Temperature and Humidity:** around 3000 – 5000 Hrs (half-life)



## Ordering Information

NTE Type No.		Lighted Color
2.3mm Diameter	3.2mm Diameter	
69-ELW2.3-RD	69-ELW3.2-RD	Red
69-ELW2.3-BL	69-ELW3.2-BL	Blue
69-ELW2.3-TB	69-ELW3.2-TB	Transparent Blue
69-ELW2.3-GR	69-ELW3.2-GR	Green
69-ELW2.3-TW	69-ELW3.2-TW	Transparent White
69-ELW2.3-YG	69-ELW3.2-YG	Yellow Green
69-ELW2.3-OR	69-ELW3.2-OR	Orange

## Characteristics

With energy saving, environmental protection, and safety characteristics, EL Wire has low power consumption when applying voltages from 3V to 220V with no heat radiation. This flexible product can be bent, knotted, cut, stretched, etc. with no change to the homogeneous light displayed along the entire length. EL Wire can be mounted to a variety of surfaces including glass, furniture, walls, etc. with transparent adhesive tape, glue, and clips as well as being able to be sewn onto clothing and leather. This makes it ideal for both indoor and outdoor applications.