

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 – 100cm² (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%

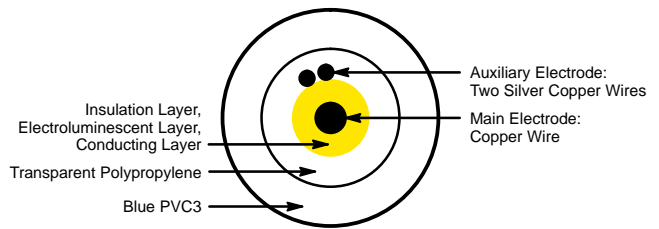
Depositing Environment: -20° to +60°C (-4° to +149°F) / < 80%

Working Life:

Voltage: 100V

Frequency: 400Hz

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



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.

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

Accessories

NTE Type No.	Description
69-ELS2	EL Wire Splitter, 2-Wire
69-ELS3	EL Wire Splitter, 3-Wire
69-ELS4	EL Wire Splitter, 4-Wire
69-ELCE2.3	End Caps for 2.3mm EL Wire
69-ELCE3.2	End Caps for 3.2mm EL Wire

Power Supplies

NTE Type No.	Description
Battery Power Supplies (Batteries not included)	
69-ELBP-1	Drives 0–5m (0–16.4 ft.) Max Length; Modes–On/Flash/Off; Uses 4 AA Batteries
69-ELBP-2	Drives 0–3m (0–9.8 ft.) Max Length; Modes–On/Slow–Flash/Fast–Flash/Off; Uses 2 AA Batteries
69-ELBP-3	Drives 0–2m (0–6.5 ft.) Max Length; Modes–On/Flash/Sound Activated/Off; Uses 2 AAA Batteries
69-ELBP-4	Drives 0–2m (0–6.5 ft.) Max Length; Modes–On/Flash/Off; Uses 1 AAA Battery
12V DC Power Supplies	
69-ELDP-1	Drives 0–3m (0–9.84 ft.) Max Length; Modes–Constant Light
69-ELDP-2	Drives 0–5m (0–16.4 ft.) Max Length; Modes–On/Sound Control/Off
69-ELDP-3	Drives 0–5m (0–16.4 ft.) Max Length; Modes–Constant Light
AC Power Supplies	
69-ELD10	Drives 0–10m (0–32.81 ft.) Max Length; Modes–On/Flash/Off; 110–250VAC
69-ELD30	Drives 10–30m (32.81–98.43 ft.) Max Length; Modes–On/Flash/Off; 110–250VAC