NTE
ELECTRONICS, INC.

LED STRIPS,
EL WIRE, & LED LAMPS

Flexible LED Strips | EL Wire | LED Lamps | Accessories

www.nteinc.com

FLEXIBLE
LED STRIPS

- Available in Non-Waterproof, Water Resistant (IP65), and Waterproof (IP68) Versions

- Red, Amber, Blue, Green, White, Warm White, Pink, Purple, RGB* and RGB+White*

- 16.4 FT. (5 Meter) Reels (Many Types Available in 100 FT. Spools and 20 Inch Lengths)

- Backed with 3M Adhesive Tape ** — simply peel and stick

- Low Power Consumption

- Wide 120° Viewing Angle

- Dimmable

- 12 VDC (24 VDC Available on Special Order)

- RoHS Compliant

- Easy Installation

- 2-Year Warranty

- Long Life — 50,000 Hours Minimum

- Pre-Packaged Starter Kits: Contain everything you need to plug in and illuminate your project. All kits contain LED strip, power supply, and associated connectors. (Remote control included with RGB and RGB+White Kits)

**For more information: nteinc.com/led01.pdf
nteinc.com/led02.pdf**

AVAILABLE IN:

- Standard Output – 300 (3528 SMD) LEDs per Reel
- High Output – 600 (3528 SMD) LEDs per Reel

- Standard Output – 150 (5050 SMD) LEDs per Reel
- High Output – 300 (5050 SMD) LEDs per Reel

ACCESSORIES:

- Power Supplies
- Dimmers
- Remote Control
- L Connectors
- T Connectors
- And more!

* 5050 SMD only   ** Non-Waterproof and Water Resistant only

3528 FLEXIBLE LED STRIPS

Non-Waterproof		Epoxy Water Resistant		Silicon Tube and Epoxy Waterproof		LED Color	Luminous Intensity	WL (nm) & CCT (K)
300 / Reel	600 / Reel	300 / Reel	600 / Reel	300 / Reel	600 / Reel			
69-36R	69-312R	69-36R-WR	69-312R-WR	69-36R-WP	69-312R-WP	Red	400mcd	620 – 630nm
69-36A	69-312A	69-36A-WR	69-312A-WR	69-36A-WP	69-312A-WP	Amber	400mcd	585 – 595nm
69-36B	69-312B	69-36B-WR	69-312B-WR	69-36B-WP	69-312B-WP	Blue	300mcd	455 – 470nm
69-36G	69-312G	69-36G-WR	69-312G-WR	69-36G-WP	69-312G-WP	Green	800mcd	510 – 525nm
69-36W	69-312W	69-36W-WR	69-312W-WR	69-36W-WP	69-312W-WP	White	4lm	6000 – 7000K
69-36WW	69-312WW	69-36WW-WR	69-312WW-WR	69-36WW-WP	69-312WW-WP	Warm White	4lm	3000 – 3500K
69-36PI	69-312PI	69-36PI-WR	69-312PI-WR	69-36PI-WP	69-312PI-WP	Pink	450mcd	452.5 – 455nm
69-36PU	69-312PU	69-36PU-WR	69-312PU-WR	69-36PU-WP	69-312PU-WP	Purple	450mcd	385 – 400nm

5050 FLEXIBLE LED STRIPS

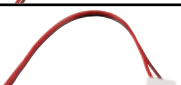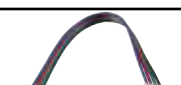|	Non-Waterproof		Epoxy Water Resistant		Silicon Tube and Epoxy Waterproof		LED Color	Luminous Intensity	WL (nm) & CCT (K)
	150 / Reel	300 / Reel	150 / Reel	300 / Reel	150 / Reel	300 / Reel			
	69-53R	69-56R	69-53R-WR	69-56R-WR	69-53R-WP	69-56R-WP	Red	1000mcd	620 – 630nm
	69-53A	69-56A	69-53A-WR	69-56A-WR	69-53A-WP	69-56A-WP	Amber	1000mcd	585 – 595nm
	69-53B	69-56B	69-53B-WR	69-56B-WR	69-53B-WP	69-56B-WP	Blue	800mcd	455 – 470nm
	69-53G	69-56G	69-53G-WR	69-56G-WR	69-53G-WP	69-56G-WP	Green	2000mcd	510 – 525nm
	69-53W	69-56W	69-53W-WR	69-56W-WR	69-53W-WP	69-56W-WP	White	15lm	6000 – 7000K
	69-53WW	69-56WW	69-53WW-WR	69-56WW-WR	69-53WW-WP	69-56WW-WP	Warm White	15lm	3000 – 3500K
	69-53RGB	69-56RGB	69-53RGB-WR	69-56RGB-WR	69-53RGB-WP	69-56RGB-WP	Red/Green/Blue	800mcd	N/A
NEW		69-56RGBW		69-56RGBW-WR			Red/Green/Blue/White	20-22lm	6000K
NEW		69-56RGBWW		69-56RGBWW-WR			Red/Green/Blue/Warm White	18-20lm	3000K
	69-53PI	69-56PI	69-53PI-WR	69-56PI-WR	69-53PI-WP	69-56PI-WP	Pink	675mcd	452.5 – 455nm
	69-53PU	69-56PU	69-53PU-WR	69-56PU-WR	69-53PU-WP	69-56PU-WP	Purple	675mcd	385 – 400nm

PRE-PACKAGED FLEXIBLE LED STRIP KITS

	Color	Part No.	Waterproof*	Description	Power Supply	Remote Control	Connectors
	Red	69-36R-KIT 69-36R-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Amber	69-36A-KIT 69-36A-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Blue	69-36B-KIT 69-36B-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Green	69-36G-KIT 69-36G-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	White	69-36W-KIT 69-36W-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Warm White	69-36WW-KIT 69-36WW-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Pink	69-36PI-KIT 69-36PI-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Purple	69-36PU-KIT 69-36PU-WR-KIT	IP20 IP65	Contains (1) 16.4ft. 300 (3528) LEDs 12V 24W Strip	69-D24	N/A	69-A1/A2/A5
	Red/Green/Blue	69-53RGB-KIT 69-53RGB-WRKIT	IP20 IP65	Contains (1) 16.4ft. 150 (5050) LEDs 12V 36W Strip	69-D36	69-RTC1	69-A1/A4/A7
	Red/Green/Blue	69-56RGB-KIT 69-56RGB-WRKIT	IP20 IP65	Contains (1) 16.4ft. 300 (5050) LEDs 12V 72W Strip	69-D72	69-RTC1	69-A1/A4/A7
NEW	Red/Green/Blue/White	69-56RGBWK 69-56RGBW-WRK	IP20 IP65	Contains (1) 16.4ft. 300 (5050) LEDs 12V 72W Strip	69-D72	69-RTC10	69-A1/A30/A31
NEW	Red/Green/Blue/Warm White	69-56RGBWWK 69-56RGBWW-WRK	IP20 IP65	Contains (1) 16.4ft. 300 (5050) LEDs 12V 72W Strip	69-D72	69-RTC10	69-A1/A30/A31

* IP20 is non-waterproof, IP65 is water-resistant

FLEXIBLE LED STRIP ACCESSORIES

NTE Type No.	Description
Power Supplies and Dimmers	
69-D24	Power Supply, 12V, 2A, 24W, 2.1mm x 5.5mm plug
69-D36	Power Supply, 12V, 3A, 36W, 2.1mm x 5.5mm plug
69-D48	Power Supply, 12V, 4A, 48W, 2.1mm x 5.5mm plug
69-D72	Power Supply, 12V, 6A, 72W, 2.1mm x 5.5mm plug
69-DIM1	LED Dimmer, RF, Remote Controlled, 12V, 8A, 96W for Single Color LED Strips Contains 1 remote and 1 dimmer.
69-DIM2	LED Dimmer, Knob Operated Control, 12V, 8A, 96W for Single Color LED Strips
Remote Controls	
69-RTC1	Remote Control and Receiver for Red/Green/Blue flexible LED strips. Soft touch, solid, gradual, hopping modes, color ring. Contains 1 remote and 1 receiver.
69-RTC10	Remote Control and Receiver for Red/Green/Blue+White flexible LED strips. Features 15 different modes. Contains 1 remote and 1 receiver.
Connectors	
69-A1	Female DC Connector, 5.5mm x 2.1mm for power supplies and remote receiver
69-A1P	Male DC Plug, 5.5mm x 2.1mm with 5.75 inch wire leads
69-A2	3528 & 2835 Size LED Connector with 5.75 inch lead Add to cut strips
69-A3	5050 Size LED Solid Color Connector with 5.75 inch leads Add to cut strips
69-A4	5050 Size LED Red/Green/Blue Connector with 5.75 inch leads Add to cut strips
69-A5	3528 & 2835 Size LED Solid Color Connector For joining strips
69-A6	5050 Size LED Solid Color Connector For joining strips

NTE Type No.	Descripton
Connectors (cont.)	
69-A7	5050 Size LED Red/Green/Blue Connector For joining strips
69-A8	Waterproof 3528 and 5050 Size LED Solid Color Connector
69-A9	Waterproof DC Connectors (Male and Female) for power supplies and remote receiver
69-A10	Waterproof 5050 Size LED Red/Green/Blue Connector
69-A11	L Connector for 3528 & 2835 Size Flexible LED Strips
69-A12	L Connector for 5050 Size Solid Color Flexible LED Strips
69-A13	L Connector for 5050 Size Red/Green/Blue Flexible LED Strips
69-A14	T Connector for 3528 & 2835 Size Flexible LED Strips
69-A15	T Connector for 5050 Size Solid Color Flexible LED Strips
69-A16	T Connector for 5050 Size Red/Green/Blue Flexible LED Strips
69-A17	Female DC Connector, 5.5mm x 2.1mm, with 2 ft. long lead wires for power supplies and remote receiver
69-A18	Female DC Connector, 5.5mm x 2.1mm, with 5 ft. long lead wires for power supplies and remote receiver
69-A19	Female DC Connector, 5.5mm x 2.1mm, with 10 ft. long lead wires for power supplies and remote receiver
69-A30	5050 Size LED Red/Green/Blue+White Connector - For joining strips
69-A31	5050 Size LED Red/Green/Blue+White Connector with 6 inch leads - Add to cut strips
69-A32	5050 Size LED Red/Green/Blue+White Connector with 5.75 inch leads - For jumping cut strips

For more information: nteinc.com/led03.pdf

EL WIRE

Flexible Neon Wire, also called Electroluminescent (EL) Wire, is the new generation product in the global lighting and display industry. Unlike flexible LED strips, EL wire is not a series of points, but rather a 360 degree line of unbroken light. 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 INCLUDE:

- Operates on AC voltages unlike LED Strips, which operate on DC voltages
- Operating voltage: 90 – 120VAC
- Available in 2.3mm and 3.2mm diameters
- Standard 9.84 Ft. (3 Meter) length with pre-wired connector
- 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 and needle, etc.
- 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

APPLICATIONS INCLUDE:

- Indoor and Outdoor Advertisements
- Shop Windows, Doors, Furniture, Walls, Roofs, etc.
- Cars, Boats, and other Vehicle Ornamentation
- Indoor and Outdoor Decorations
- Guidance Lighting such as Safety Signs and Stairways
- Doorplates and Temporary Markings
- Toys, Arts & Crafts, Garments, Sporting Equipment, etc.

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

For more information: nteinc.com/el01.pdf

SPECIFICATIONS

Optimum Operating Voltage: 90 – 120VAC

Optimum Operating Frequency: 1500 – 2000Hz

Power Dissipation: 200mW

Luminous Intensity: 80 – 100cm/m2 (90 – 100V, 1.8 – 2000Hz)

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

Working Life: 3,000 – 5,000 Hrs. (Half Life)

Auxiliary Electrode: Two Silver Copper Wires

Main Electrode: Copper Wire

Insulation Layer, Electroluminescent Layer, Conducting Layer

Transparent Polypropylene

Colored PVC

EL WIRE ACCESSORIES

NTE Type No.	Description
Power Supplies	
69-ELBP-1	EL Wire Battery Power Supply – Drives 0–5M (0–16.4Ft.) Max Length, On/Flash/Off Modes, Uses 4 AA Batteries
69-ELDP-1	EL Wire 12VDC Power Supply with Cigarette Lighter Adapter – Drives 0–3M (0–9.84Ft.) Max Length, Constant Light
69-ELDP-2	EL Wire 12VDC Power Supply with Cigarette Lighter Adapter – Drives 0–5M (0–16.4Ft.) Max Length, On/Sound Control/Off Modes
69-ELDP-3	EL Wire 12VDC Power Supply with Cigarette Lighter Adapter – Drives 0–5M (0–16.4Ft.) Max Length, Constant Light
69-ELD10	EL Wire AC Power Supply, Drives 0–10M (0–32.81Ft.) Max Length, On/Flash/Off Modes, 110–250VAC
69-ELD30	EL Wire AC Power Supply, Drives 10–30M (32.81–98.43Ft.) Max Length, On/Flash/Off Modes, 110–250VAC
Splitters	
69-ELS2	EL Wire Splitter – 2 Wire
69-ELS3	EL Wire Splitter – 3 Wire
69-ELS4	EL Wire Splitter – 4 Wire
End Caps	
69-ELEC2.3	EL Wire End Caps for 2.3mm Types
69-ELEC3.2	EL Wire End Caps for 3.2mm Types

For more information: nteinc.com/el02.pdf

LED LAMPS

Used for both general and special-purpose lighting

- Square Interior - 12/24 VDC
- Round Interior - 12/24 VDC
- Rotating Swivel - 12/24 VDC
- Waterproof Light Bar - 12 VDC

FEATURES INCLUDE:
- More efficient, requires less energy
- Long life expectancy
- No warm up time – comes on instantly
- Environmentally friendly (no mercury)
- Durable
- Easy to maintain
- Cost Effective

APPLICATIONS INCLUDE:
- Automotive use
- Backlight sources for electronics
- Display screens for advertising
- Electronic equipment
- General lighting

69-LL-03
69-LL-02
69-LL-01
69-LL-04
69-LL-05
69-LL-06

ORDERING INFORMATION

NTE Type No.	Description
69-LL-01	LED Light Bar - 11 Inch Length, 12 VDC, 10 White LEDs, Gray Aluminum Housing, Waterproof
69-LL-02	Rotating, Swivel, 12/24 VDC, 4 White LEDs, White Housing, Clear Lens with Rocker Switch
69-LL-03	Rotating, Swivel, 12/24 VDC, 4 White LEDs, Silver Housing, Frosted Lens
69-LL-04	Rotating, Swivel, 12/24 VDC, 4 White LEDs, Ivory Housing, Frosted Lens with Rocker Switch
69-LL-05	Round Interior, 12/24 VDC, 14 White LEDs, White Housing with Built-In Switch
69-LL-06	Square Interior, 12/24 VDC, 14 White LEDs, White Housing with Built-In Switch

SPECIFICATIONS

LED Interior
Rating: 12 / 24VDC

LED Type: SMD 0.5W

Operating Temperature: –20 to +60 C

Beam Pattern: 120

Top Cover: ABS White

Base: PC White

For more information: nteinc.com/ll03.pdf

LED Rotating Swivel
Rating: 12 / 24VDC, 25mA / 10mA (69-LL-02)

Rating: 12 / 24VDC, 2W at 13.6V (69-LL-03, 69-LL-04)

LED Type: SMD, 0.3W (69-LL-02)

LED Type: SMD, 0.5W (69-LL-03, 69-LL-04)

Operating Temperature: –20 to +60 C

Base Color: Satin / White

For more information: nteinc.com/ll02.pdf

LED Light Bar
Rating: 12VDC

LED Type: SMD 0.5W

Operating Temperature: –20 to +60 C

Lamp Life Cycle: 6000 hours min

Base: Aluminum

Top and Side Cover: ABS, Gray

For more information: nteinc.com/ll01.pdf

OPTOELECTRONIC DEVICES

NTE has a broad selection of optoelectronic products designed to suit most every need. From standard discrete thru-hole LEDs and surface mount types to our newest addition, EL Wire.

Recently expanded upon is our selection of popular Super Bright LEDs in 1.8mm, 3mm, 5mm, 8mm and 10mm.

Our Extensive Product Line Includes:

DISCRETE LED INDICATORS
• Light Emitting Diodes (LEDs)
• Super Bright LEDs
• Surface Mount LEDs
• Dual & Triple Color LEDs
• Infrared Emitting Diodes

LED DISPLAYS
• LED Displays, Many Sizes, Common Anode, Common Cathode

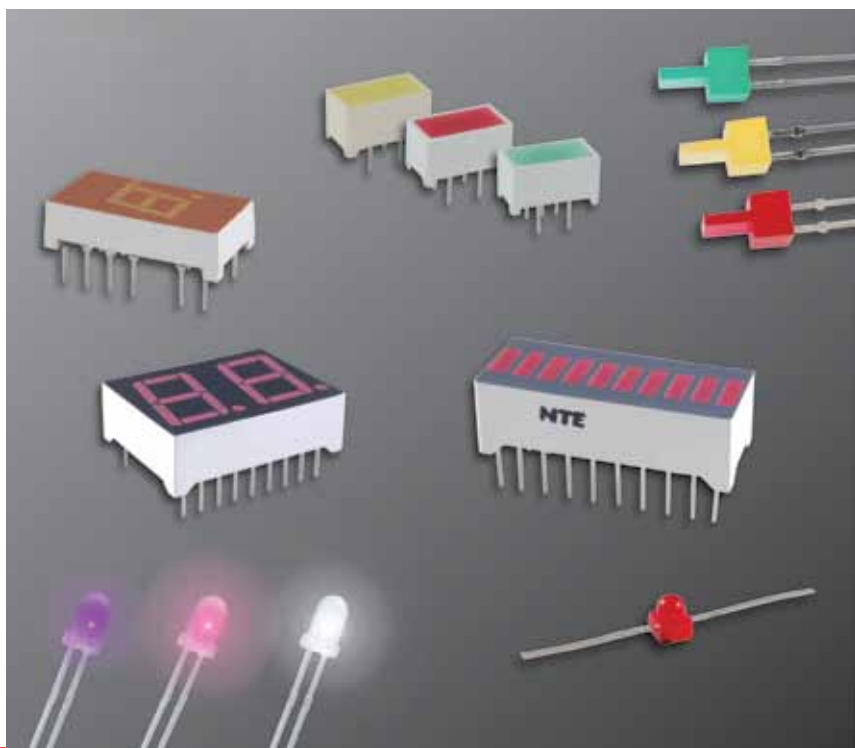## HARDWARE & ACCESSORIES
• LED Mounting Clips

OPTOISOLATORS
• Phototransistor Outputs
• Photothyristor Outputs
• Schmitt Trigger Outputs
• Photon Coupled Bilateral Analog FET Outputs
• TTL Compatible Photon Coupled Logic Gate Outputs

For more information, visit nteinc.com/opto.php

MISCELLANEOUS OPTO DEVICES
• Infrared Detector Diodes
• Phototransistor Detectors
• NTE7208 LED Driver

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