Type _____

Project _____

Catalog No. _____

Lamp/Wattage _____

## NUTP9-16LED 24V 16' Side-Lit Damp Label LED Tape Light

## Source: 18 LED / Foot

### PRODUCT DESCRIPTION
Nora's very low profile, energy efficient LED tape is only 7/16" wide and 1/16" thick. Designed to cast no shadows, our flexible LED light boasts a desirable seamless glow. Installation is easy as each roll (16 feet) is separable every 12" and can also be cut every 4" (2" on 12V). Our durable tape is available in two styles, Wet label*, IP65 rated silicone encapsulated tape, and Damp label* IP44 non-encapsulated tape.

### FEATURES
• Available in 16' roll
• 70 Lumens per foot with 3000K CCT
• 288 LEDs / 24W per roll; 18 LEDs / 1.5W per foot
• 24V DC single color illumination
• Available in amber background with 2 color outputs:
      Warm White (3000K), Warm White (2700K), Consult factory for other colors
• Separable every 12", easily disconnect and connect without soldering
• Field cuttable every 4" on 24V
• Maximum run: Electronic Driver (24V) 66' with 100W driver
• Easy to install with pre-applied 3M™ tape, clips or channel
• Dimmable with dimmable power supply
• Exceeds Title 24 high efficacy requirements

### MOUNTING
Each Tape Light roll comes with 15 clear acrylic clips and also comes with pre-applied 3M™ adhesive tape for simple installation. Plastic channel (NATL-420) also available, sold separately.

### DRIVER
A wide variety of drivers are available from direct plug-ins, Class II, and Dimmable Class II Drivers.

### ELECTRICAL
Power: 24V DC Input / 1.5 Watts Per Foot
Light Source: 18 LEDs per foot
Operating Temp.: -13˚ F to 140˚F (-25˚C to 60˚C)
Life Expectancy: 50,000 Hours
Maximum Run Length: 64' using 24V Tape and 96W driver

### MOUNTING
Each Tape Light Roll purchased includes a 9" power line connector [NATL-509 (24V)], (15) clear acrylic clips, pre-applied 3M™ adhesive, and 16' tape consisting of 12" sections.

### DIMMABLE
There may be some cases that require more than one lighting fixture to be used to meet minimum dimmer load. Consult with dimmer manfacturer. Click Here or refer to www. NoraLighting.com for complete updated dimmer list in the "Compatibility" page under the "Resource" tab.
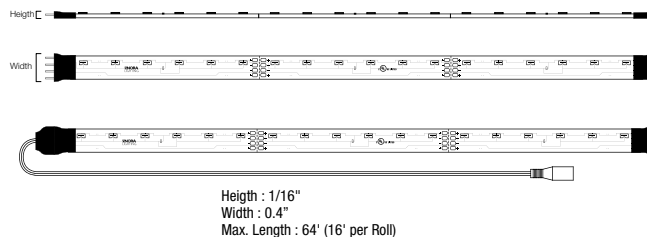
### LABELS AND LISTINGS
California Energy Commission Certified
cETLus Listed for Damp Location (not submersible)
IP44 Rated

### WARRANTY
3 Year Limited Warranty.

cULus LISTED

### DIMENSIONS



Heigh : 1/16"
Width : 0.4"
Max. Length : 64' (16' per Roll)

### HARDWIRE DRIVERS
**NAPK-530HW/12:** 12V DC / 30W Class II Hardwired LED Driver
**NAPK-560HW/12:** 12V DC / 60W Class II Hardwired LED Driver
**NAPK-530HW:** 24V DC / 30W Class II Hardwired LED Driver
**NAPK-560HW:** 24V DC / 60W Class II Hardwired LED Driver

### PLUG-IN DRIVERS
**NAPK-524/12:** 12V DC / 24W Direct Plug-In LED Driver
**NATL-524:** 24V DC / 24W Direct Plug-In LED Driver
**NATL-545:** 24V DC / 45W Direct Plug-In LED Driver
**NATL-550/12:** 12V DC / 50W Direct Plug-In LED Driver
**NATL-596:** 24V DC / 96W Direct Plug-In LED Driver

### DRIVER ACCESSORIES
**NRA-125/6:** 6" Extension Cord for NAPK-530HW/12 & NAPK-560HW/12
**NRA-125/12:** 12" Extension Cord for NAPK-530HW/12 & NATL-560HW/12
**NRA-125/18:** 18" Extension Cord for NAPK-530HW/12 & NATL-560HW/12
**NRA-125/72:** 72" Extension Cord for NAPK-530HW/12 & NATL-560HW/12
**NRA-6035W/6:** 6' Cord and Plug for NAPK-530HW/12 & NATL-560HW/12
**NRA-6035W/10:** 10' Cord and Plug for NAPK-530HW/12 & NATL-560HW/12
**NUSP-JBox:** Junction Box required for hardwiring NAPK-530HW/12 & NAPK-560HW/12

### TAPE LIGHT ACCESSORIES
**NATL-2xx:** Interconnection Cable (available in 2", 6", 18", 36", 72")
**NATL-300:** "Y" Splitter Cable
**NATL-301:** "X" Splitter Cable
**NATL-400:** Shrink Wrap Tube (Pack of 5)
**NATL-401:** Clear Acrylic Mounting Clips (Pack of 15)
**NATL-403:** End Cap
**NATL-420:** 4' Plastic Channel (Black or White)
**NATL-515:** 9" Power Line Interconnector
**NATL-517:** 11" Power Line Interconnector with Switch
**NATL-C23:** 4" Aluminum Channel, Shallow w/ Wings
**NATL-C24:** 4" Aluminum Channel, Shallow
**NATL-C25:** 4" Aluminum Channel, Deep w/ Wings
**NATL-C26:** 4" Aluminum Channel, Deep
**NATL-C27:** 4" Aluminum Channel, J-Style
**NATL-C28:** 4" Aluminum Channel, Corner
**NATL-518:** In-Line Dimmer (12V & 24V, 72W Max)

### 24V 16' Side-Lit Damp Label LED Tape Light

| Item Number | Roll Length | Source | CCT | Section Length |
|---|---|---|---|---|
| NUTP9 | 16 | LED | 27 | /12 |
| | | | 30 | /4 |

Create a complete Item number:   Example: **N U T P 9 - 1 6 L E D 2 7**

# Standard LED Tape Light Optional Accessories

## Interconnection Cable
The interconnection cables allow for linking of any tape lights in any direction or extension of power line interconnectors. The arrow on the interconnection cable must always be facing upward to maintain polarity. Interconnection cables may be joined together for custom lengths.
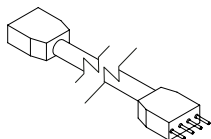
**NATL-202:** 2" Interconnection Cable
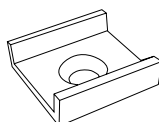**NATL-206:** 6" Interconnection Cable
**NATL-218:** 18" Interconnection Cable
**NATL-236:** 36" Interconnection Cable
**NATL-272:** 72" Interconnection Cable

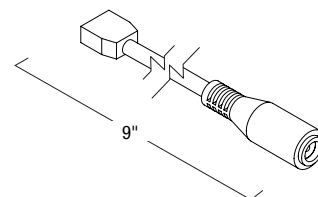## Clear Acrylic Mounting Clips (Pack of 15)
Used to mount tape light to surface, includes mounting screws. Pack of 15 are included with every Tape Light roll.

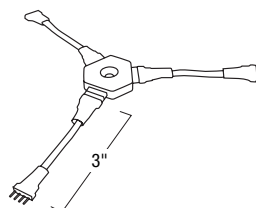**NATL-401:** Clear Acrylic Mounting Clips (Pack of 15)

## Power Line Interconnector
To connect a Tape Light run directly to LED Driver. NATL-509 is included with every Tape Light roll.

9"

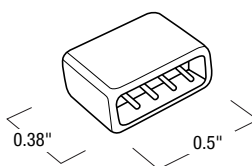**NATL-509:** 9" 24V Power Line Interconnector

## "Y" Splitter Cable
Splits connection from one tape light or driver into two separate tape lights.

3"

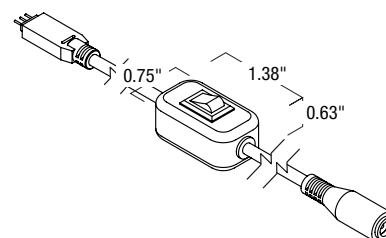**NATL-300:** "Y" Splitter Cable

## End Cap
Used to cover open end of Tape Light.

0.38"    0.5"

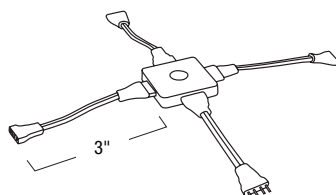**NATL-403:** End Cap

## Power Line Interconnector with Switch
Allows for individual switching on any Tape Light run. Connects a Tape Light run directly to LED Driver.

0.75"    1.38"    0.63"

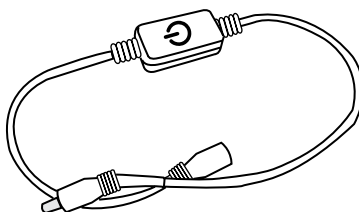**NATL-511:** 11" Power Line Interconnector w/Switch

## "X" Splitter Cable
Splits connection from one tape light or driver into three separate tape lights.

3"

**NATL-301:** "X" Splitter Cable

**NATL-518:** In-Line Dimmer (12V & 24V, 72W Max)

**NATL-422W:** 2' Wire Raceway (White). Field cuttable plastic (Includes wire channel with double faced tape and cover)
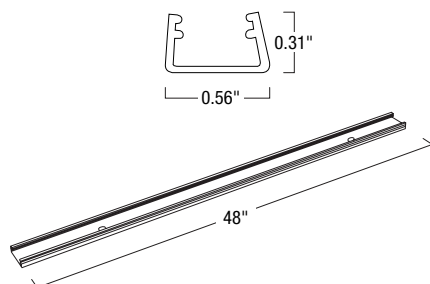
**NATL-422B:** 2' Wire Raceway (Black). Field cuttable plastic (Includes wire channel with double faced tape and cover)
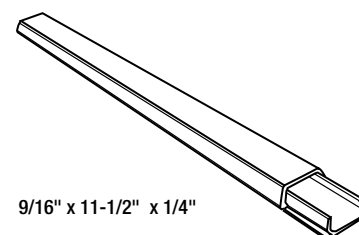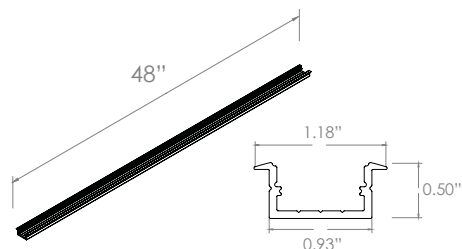
9/16" x 11-1/2"  x 1/4"

**Plastic Channel**
Used to mount tape light to various surfaces.
Tape Light snaps into the channel. Field Cuttable.
Recommended for most installations.

0.31"
0.56"
48"

**NATL-420B:** 4' Plastic Channel, Black
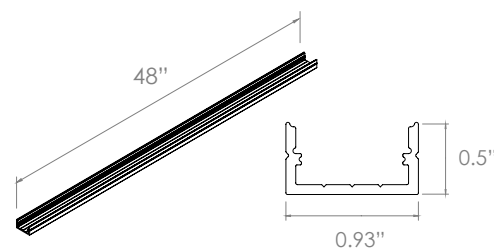**NATL-420W:** 4' Plastic Channel, White

**Aluminum Channel**
Used to mount tape light to various surfaces.
Includes plastic diffuser

48"
1.18"
0.50"
0.93"

**NATL-C23:** 4' Aluminum Channel, Shallow w/ Wings

**Aluminum Channel**
Used to mount tape light to various surfaces.
Includes plastic diffuser

48"
0.5"
0.93"

**NATL-C24:** 4' Aluminum Channel, Shallow

**Aluminum Channel**
Used to mount tape light to various surfaces.
Includes plastic diffuser.

48"
1.18"
0.79"
0.93"
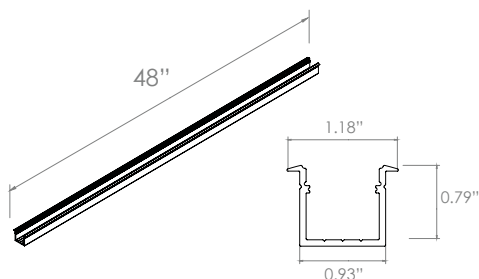
**NATL-C25:** 4' Aluminum Channel, Deep with Wings

**Aluminum Channel**
Used to mount tape light to various surfaces.
Includes plastic diffuser.

48"
0.79"
0.86"
0.93"
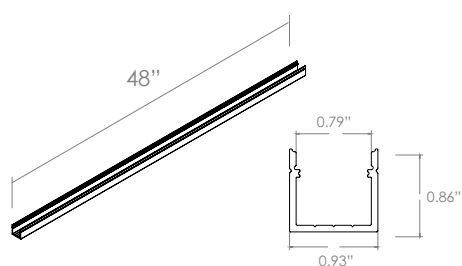
**NATL-C26:** 4' Aluminum Channel, Deep

**Aluminum Channel**
Used to mount tape light to various surfaces.

48"
0.75"
1.57"
0.82"
0.89"
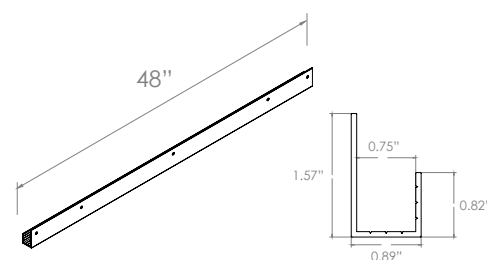
**NATL-C27:** 4' Aluminum Channel, J-Style

**Aluminum Channel**
Used to mount tape light to various surfaces.
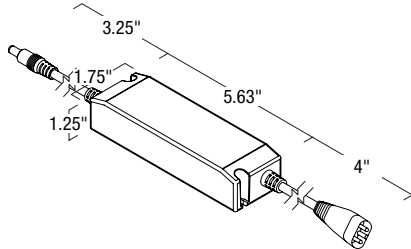Includes plastic diffuser.

48"
1.88"
0.44"
0.79"
0.75"
90°
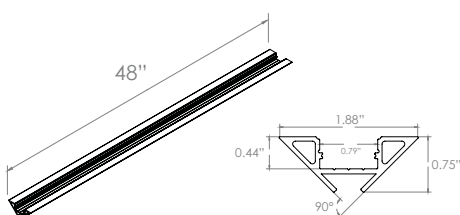
**NATL-C28:** 4' Aluminum Channel, Corner

# 24V Standard LED Tape Light Drivers

## 30W 24V Class II Hardwire Electronic LED Driver

Allows hardwiring Tape Light run by using NUSP-JBox. Can also be converted into direct plug-in driver by using NRA-6035. Non-Dimmable.



**NATL-530HW:** 24V 30W Class II Hardwire Driver

## 24V Direct Plug-In LED Drivers

Allows direct connection a wall outlet with 6' cord and plug. Non-Dimmable.



**NATL-524:** 24V 24W Direct Plug-In LED Driver
**NATL-545:** 24V 45W Direct Plug-In LED Driver

## 300W 24V Class II Dimmable Hardwire LED Driver

Includes three 100W breakers, which allows hardwiring three Tape Light runs and dimming with Magnetic Low Voltage Dimmer. Includes (3) 10' power line connector (NALTL-10). Manual reset thermal circuit - secondary side. Integral regulator for constant current and voltage. Can be mounted 30' from start of run.



**NMT-303/24C2D1:** 120V/24V 300W C2 Dimm. Driver
**NMT-303/24C2D2:** 277V/24V 300W C2 Dimm. Driver
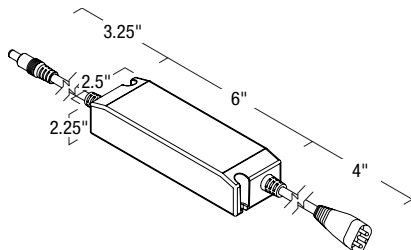
## 60W 24V Class II Hardwire Electronic LED Driver

Allows hardwiring Tape Light run by using NUSP-JBox. Can also be converted into direct plug-in driver by using NRA-6035. Non-Dimmable.



**NATL-560HW:** 24V 60W Class II Hardwire Driver

## 96W 24V Direct Plug-In LED Driver

Allows direct connection a wall outlet with 5' cord and plug and 44" power line connector. Non-Dimmable.



**NATL-596:** 24V 96W Class II Direct Plug-In LED Driver

**NMTD-60/24D** - Dimmable Class II Remote Hardware Magnetic Driver (60W)
**NMTD-96/24D** - Dimmable Class II Remote Hardware \ Magnetic Driver (96W)



**Dimmable Class II Remote Hardwire Magnetic Driver**
With Integral Regulator for Constant Current and Voltage. Includes NALTL-10 120/277V

## 100W 24V Class II Hardwire Electronic LED Driver

Allows hardwiring Tape Light run. Includes 10' power line connector (NALTL-10). Non-Dimmable.



**NATL-5100HW:** 24V 100W C2 Hardwire Driver

## 24V Class II Dimmable Hardwire LED Driver

Allows hardwiring Tape Light run and dimming with Magnetic Low Voltage Dimmer. Includes 10' power line connector (NALTL-10). Manual reset thermal circuit - secondary side. Integral regulator for constant current and voltage. Can be mounted 30' from start of run.



**NMT-48/24C2D1:** 120V/24V 48W C2 Dimm. Driver
**NMT-48/24C2D2:** 277V/24V 48W C2 Dimm. Driver
**NMT-96/24C2D1:** 120V/24V 96W C2 Dimm. Driver
**NMT-96/24C2D2:** 277V/24V 96W C2 Dimm. Driver

# 24V Standard LED Tape Light Drivers

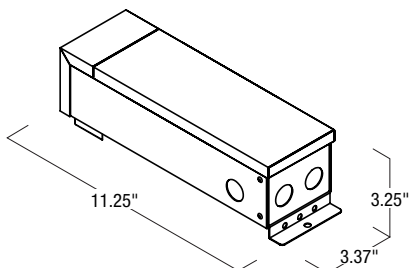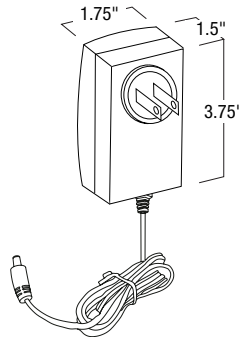## 30W 24V Class II Hardwire Electronic LED Driver

Allows hardwiring Tape Light run by using NUSP-JBox. Can also be converted into direct plug-in driver by using NRA-6035. Non-Dimmable.

**NATL-530HW:** 24V 30W Class II Hardwire Driver

## 24V Direct Plug-In LED Drivers

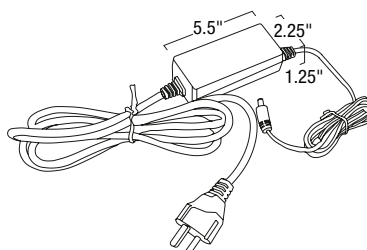Allows direct connection a wall outlet with 6' cord and plug. Non-Dimmable.

**NATL-524:** 24V 24W Direct Plug-In LED Driver
**NATL-545:** 24V 45W Direct Plug-In LED Driver

## 300W 24V Class II Dimmable Hardwire LED Driver

Includes three 100W breakers, which allows hardwiring three Tape Light runs and dimming with Magnetic Low Voltage Dimmer. Includes (3) 10' power line connector (NALTL-10). Manual reset thermal circuit - secondary side. Integral regulator for constant current and voltage. Can be mounted 30' from start of run.

**NMT-303/24C2D1:** 120V/24V 300W C2 Dimm. Driver
**NMT-303/24C2D2:** 277V/24V 300W C2 Dimm. Driver

## 60W 24V Class II Hardwire Electronic LED Driver

Allows hardwiring Tape Light run by using NUSP-JBox. Can also be converted into direct plug-in driver by using NRA-6035. Non-Dimmable.

**NATL-560HW:** 24V 60W Class II Hardwire Driver
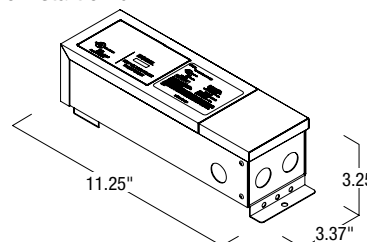
## 96W 24V Direct Plug-In LED Driver

Allows direct connection a wall outlet with 5' cord and plug and 44" power line connector. Non-Dimmable.

**NATL-596:** 24V 96W Class II Direct Plug-In LED Driver

**NMTD-60/24D** - Dimmable Class II Remote Hardware Magnetic Driver (60W)
**NMTD-96/24D** - Dimmable Class II Remote Hardware \ Magnetic Driver (96W)

**Dimmable Class II Remote Hardwire Magnetic Driver**
With Integral Regulator for Constant Current and Voltage. Includes NALTL-10 120/277V

## 100W 24V Class II Hardwire Electronic LED Driver

Allows hardwiring Tape Light run. Includes 10' power line connector (NALTL-10). Non-Dimmable.

**NATL-5100HW:** 24V 100W C2 Hardwire Driver

## 24V Class II Dimmable Hardwire LED Driver

Allows hardwiring Tape Light run and dimming with Magnetic Low Voltage Dimmer. Includes 10' power line connector (NALTL-10). Manual reset thermal circuit - secondary side. Integral regulator for constant current and voltage. Can be mounted 30' from start of run.
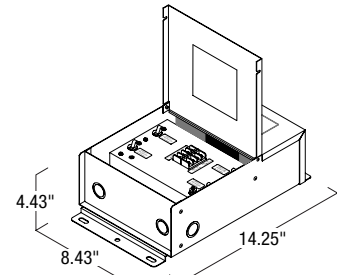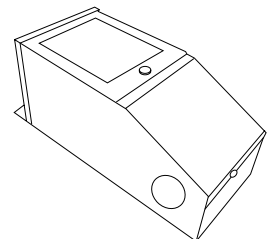
**NMT-48/24C2D1:** 120V/24V 48W C2 Dimm. Driver
**NMT-48/24C2D2:** 277V/24V 48W C2 Dimm. Driver
**NMT-96/24C2D1:** 120V/24V 96W C2 Dimm. Driver
**NMT-96/24C2D2:** 277V/24V 96W C2 Dimm. Driver

# 24V Standard LED Tape Light Drivers Accessories

**Replacement Power Line Connector**
For use with NMT Series and NATL-5100HW.
Replaces included 10' lead wire, to allow for 30'
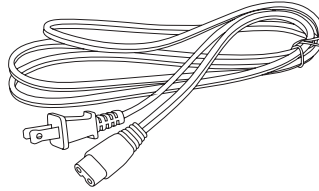or less length between Tape Light run and LED
Driver.
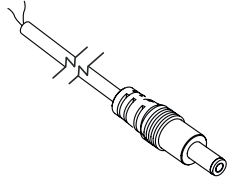
**NALTL-10:** 10' 24V Power Line Connector
**NALTL-30:** 30' 24V Power Line Connector

**Cord and Plug for NATL-530HW or NATL-560HW**
Used to convert NATL-530HW or NATL-560HW into
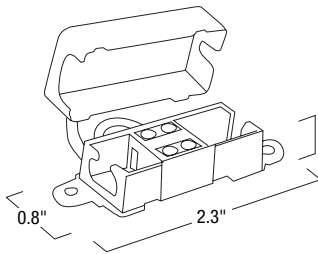a direct plug-in driver.

**NRA-6035W/6:** 6' Cord and Plug
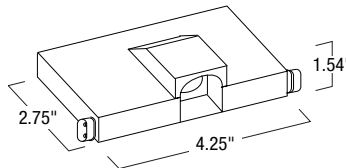**NRA-6035W/10:** 10' Cord and Plug

**Low Voltage Splice Box**
Use to join Romex® low voltage lead to power line
connector.

0.8"    2.3"

**NATL-415:** Low Voltage Splice Box

**Junction Box for Hardwiring**
Required for hardwiring NATL-530HW or
NATL-560HW. Can be used to feed to separate
runs. Accepts Romex®.

1.54"
2.75"
4.25"

**NUSP-JBox:** Junction Box for Hardwiring

**Extension Cord for NATL-530HW or NATL-560HW**
Used to extend length between NUSP-JBox and
NATL-530HW or NATL-560HW. Can be joined
together to create custom lengths.
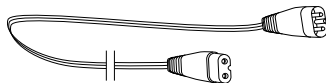
**NRA-125/6:** 6" Flexible Extension Cord
**NRA-125/12:** 12" Flexible Extension Cord
**NRA-125/18:** 18" Flexible Extension Cord
**NRA-125/72:** 72" Flexible Extension Cord

# LED TAPE LIGHT
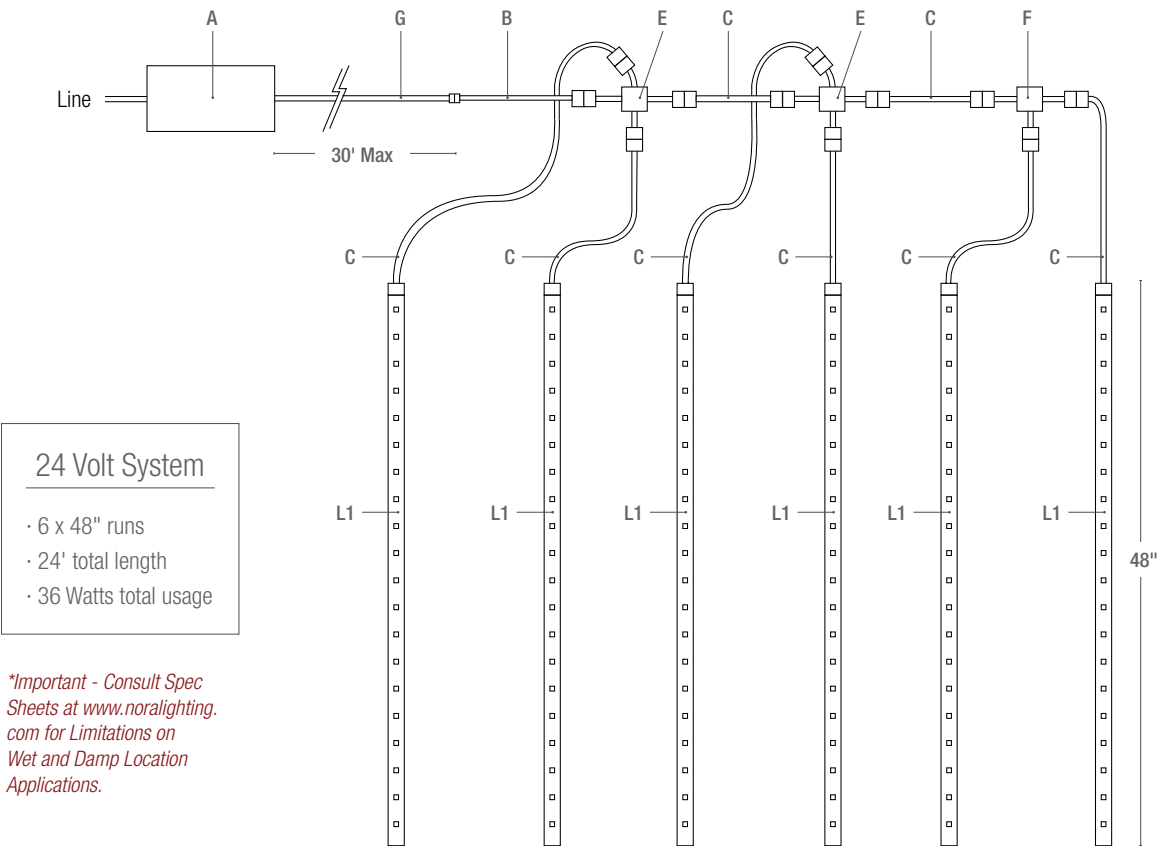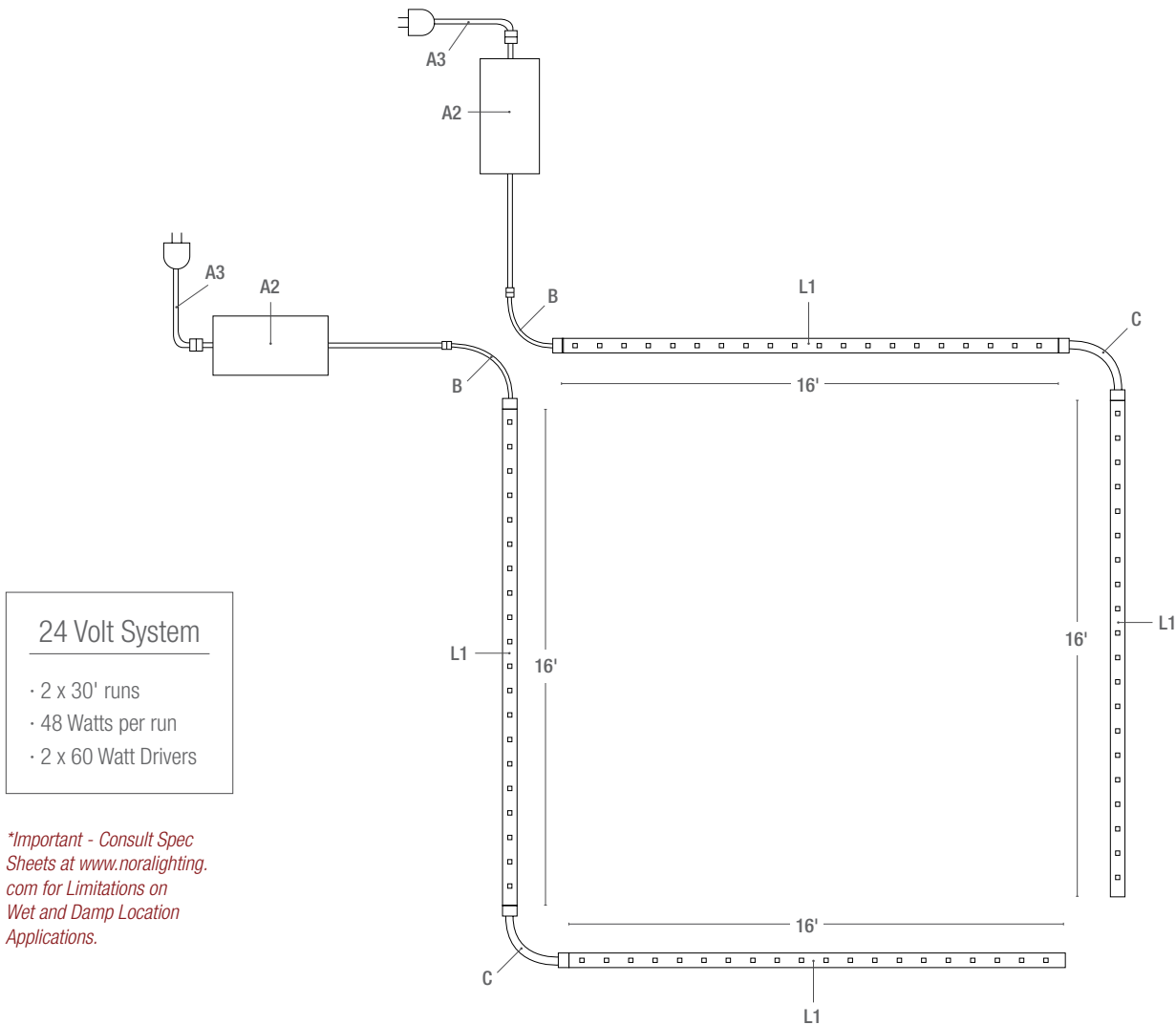## Standard and Side-Lit Sample Layout



Line

30' Max

24 Volt System

· 6 x 48" runs
· 24' total length
· 36 Watts total usage

*Important - Consult Spec
Sheets at www.noralighting.
com for Limitations on
Wet and Damp Location
Applications.*

48"

| | DESCRIPTION | ITEM # |
|---|---|---|
| A1 | 24V 48W Dimmable Magnetic Power Supply - Hardwire | NMT-48/24C2D1 |
| B | 9" Power Line Interconnector (one included with each Tape Light roll) | NATL-509 |
| C | 2" Interconnection Cable<br>6" Interconnection Cable<br>18" Interconnection Cable<br>36" Interconnection Cable<br>72" Interconnection Cable | NATL-202<br>NATL-206<br>NATL-218<br>NATL-236<br>NATL-272 |
| E | "X" Splitter Cable (1 in & 3 out) | NATL-301 |
| F | "Y" Splitter Cable (1 in & 2 out) | NATL-300 |
| G | 30' Power Line Connector | NALTL-30 |
| L1 | 48" LED Tape Light Segment<br>(Each NUTP(1, 7 or 9)-16LED Roll contains (16) 12" detachable sections) | (1) NUTP(1, 7 or 9)-16LED(color) and<br>(8) NUTP(1, 7 or 9)-LED(color)/12 |
| | *Note: All drivers require power line interconnector to connect to tape. | |

# LED TAPE LIGHT
## Sample Layout  **Standard and Side-Lit**



### 24 Volt System

· 2 x 30' runs
· 48 Watts per run
· 2 x 60 Watt Drivers

*Important - Consult Spec Sheets at www.noralighting. com for Limitations on Wet and Damp Location Applications.*

| | DESCRIPTION | ITEM # |
|---|---|---|
| A2 | 24V 60W Class II Hardwire LED Driver | NATL-560HW |
| A3 | Flexible 6' Power Cord | NRA-6035W/6 |
| B | 9" Power Line Interconnector (one included with each Tape Light roll) | NATL-509 |
| C | 2" Interconnection Cable<br>6" Interconnection Cable<br>18" Interconnection Cable<br>36" Interconnection Cable<br>72" Interconnection Cable | NATL-202<br>NATL-206<br>NATL-218<br>NATL-236<br>NATL-272 |
| L1 | 16' LED Tape Light Roll (Disconnect every 12" or can be cut every 4", contains (16) 12" segments) | (4) NUTP(1, 7 or 9)-16LED(color) |

**NORA** | *NSPEC*®

ILLUMINATING THE FUTURE...SINCE 1989

Type

Project

Catalog No.

Lamp/Wattage

## NATL-5060-12-HWD10 Hardwire Electronic Driver | 12 Volt, 60 Watt Class II (0-10V Dimming)

### PRODUCT DESCRIPTION
12 Volt enclosed driver to be used with Nora Lighting's 12 Volt systems requiring a Class II driver (0-10V Dimming).

### FEATURES
- 120/277V 0-10V Dimmable
- Type 3R Rainproof Enclosure
- Conduit Access Wiring Compartment
- Meets Class II output limits
- 12 Volt DC Rated output
- Includes NALTL-10, 12V 10' Power Line Connector
- cULus Listed Enclosure & cULus Recognized Driver

### ELECTRICAL
**Input:** 120/277V
**Output:** 12VDC
**Wattage:** 60W

### OPTIONAL ACCESSORIES
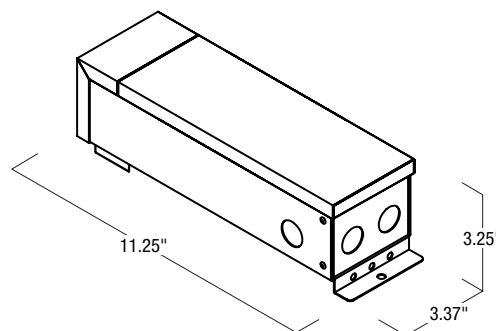**NALTL-10:** 24V 10' Power Line Connector (included)
**NALTL-30:** 24V 30' Power Line Connector

**Labels and Listings**
cULus Listed Enclosure
Type 3R Rainproof Enclosure
cULus Recognized Driver

11.25"    3.25"    3.37"

Width:   3.37"
Length:  11.25"
Height:  3.25"

| 12V 60W Class II Hardwire Electronic Driver 0-10V Dimming | Optional Accessories |
|---|---|
| **NATL-5060-12-HWD10:** 12V 60W Class II Hardwire Electronic Driver 0-10V Dimming | **NAPK-10:** 12V 10' Power Line Connector (included with each driver) |
| | **NAPK-30:** 12V 30' Power Line Connector |

**NORA** | *NSPEC*®

ILLUMINATING THE FUTURE...SINCE 1989

Type

Project

Catalog No.

Lamp/Wattage

## NATL-5096-24-HWD10 Hardwire Electronic Driver

## 24 Volt, 96 Watt Class II (0-10V Dimming)

### PRODUCT DESCRIPTION
24 Volt enclosed driver to be used with Nora Lighting's 24 Volt systems requiring a Class II driver (0-10V Dimming).

### FEATURES
- 120/277V 0-10V Dimmable
- Type 3R Rainproof Enclosure
- Conduit Access Wiring Compartment
- Meets Class II output limits
- 24 Volt DC Rated output
- Includes NALTL-10, 24V 10' Power Line Connector
- cULus Listed Enclosure & cULus Recognized Driver

### ELECTRICAL
**Input:** 120/277V
**Output:** 24VDC
**Wattage:** 96W

### OPTIONAL ACCESSORIES
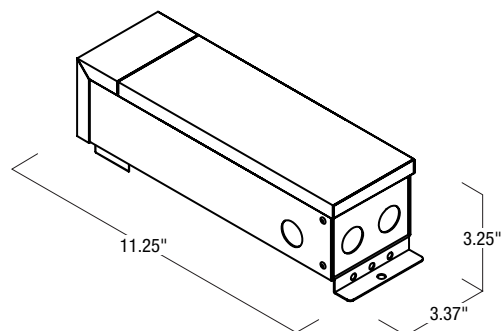**NALTL-10**: 24V 10' Power Line Connector (included)
**NALTL-30**: 24V 30' Power Line Connector

**Labels and Listings**
cULus Listed Enclosure
Type 3R Rainproof Enclosure
cULus Recognized Driver



11.25"    3.25"
3.37"

Width:    3.37"
Length:   11.25"
Height:   3.25"

---

### 24V 96W Class II Hardwire Electronic Driver 0-10V Dimming

**NATL-5096-24-HWD10:** 24V 96W Class II Hardwire Electronic Driver 0-10V Dimming

### Optional Accessories

**NALTL-10:** 24V 10' Power Line Connector (included with each driver)

**NALTL-30:** 24V 30' Power Line Connector