

LED HYBRID 2 BULK REELS

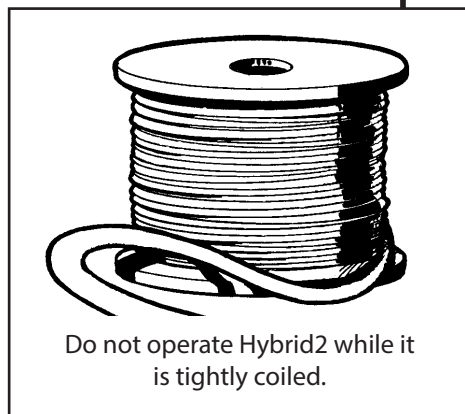


Installation instructions for 24-H2 Series 24V DC, 60Hz operation

WARNING: These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with these instructions, current electrical codes, and/or the current National Electric Code (NEC). Use this product only with a 24V DC power supply. Any other voltage and type of power feed may damage the product.

WARNINGS: READ ALL INSTRUCTIONS BEFORE YOU START:

CAUTION - To reduce risk of fire, electric shock, or injury to persons, pay close attention to this manual and stay within its guidelines when using this product. Before use, note that this product requires 24V DC power input. Ensure that the voltage of your power supply is compatible!



24V LED Hybrid2 is c/ETL/us Listed, but this safety rating is only valid for lengths cut to 65 feet or less.

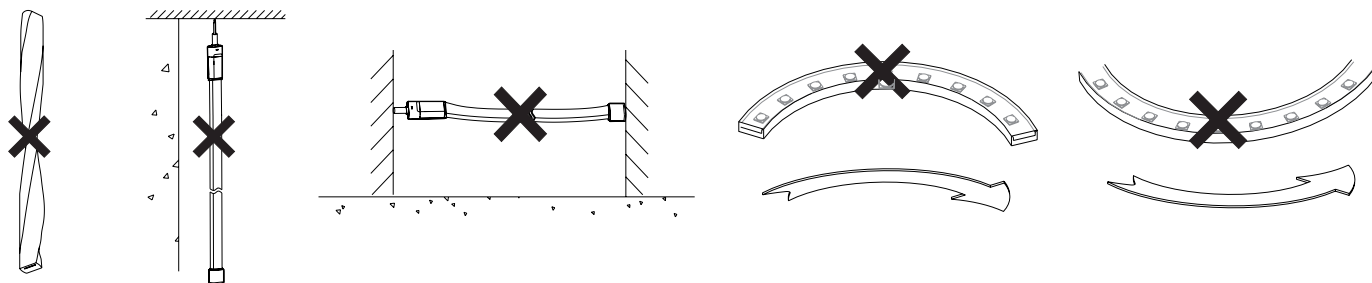
1. Do not cover this product as the covering may cause rope to overheat, melt, or ignite.
2. Do not operate Hybrid2 while it is tightly coiled.
3. Do not submerge flexible light in liquids, or use the product in the vicinity of standing water or other liquids.
4. Do not route the cord or Hybrid2 through walls, ceilings, doors, windows, or any similar part of the building structure.
5. Secure this flexible light using only the mounting clips provided or factory recommended mounting track (sold separately).
6. Do not secure this product or its cord with staples, nails, or like means that may damage the insulation.
7. Do not use if there is any damage to the PVC housing or power cord insulation. Inspect periodically.
8. Do not install on gates or doors, where subject to continuous flexing.
9. Do not install in tanks or enclosures of any kinds.
10. Follow instructions carefully when splicing Hybrid2 sections or attaching power cords. Ensure that all connections, including the end cap on the last segment, are properly installed with dielectric grease and shrink tube to preclude the entrance of water (outdoor applications).
11. **24V Hybrid2 is c/ETL/us Listed, but this safety rating is only valid for lengths cut to 65 feet or less.** Hybrid2 can only be cut at specific intervals as indicated by the cutting marks printed on the side of the PVC housing. Failure to cut at a cut mark, will result in a loss of light. Before making any cuts or attaching any power cords or jumpers, be sure power source is disconnected!
12. This product is designed for use by a qualified installer.
13. This product is for decorative use only. Not to be used by children as a toy. Keep out of reach of small children.
14. Do not exceed 65ft maximum run distance in any single run. Do not ever connect power to a full reel.

CAUTION - To reduce the risk of fire, electric shock, or injury to persons:

WARNING: When using outdoor portable lighting products, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

1. Use dielectric grease and shrink tube at all power connections, including end cap when using outdoors.
2. Use ground fault circuit interrupter (GFCI) protection on the circuit(s) when using outdoors.

CAUTION - DO NOT TWIST, HANG VERTICALLY, SUSPEND UNSUPPORTED IN THE MIDDLE OR BEND ALONG SHORT SIDE:



PROP 65 WARNING:

Handling the coated electrical wires of this product exposes you to lead, a chemical known to the State of California to cause cancer, birth defects and other reproductive harm. Wash hands after use.

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Installation instructions for 24-H2 Series
24V DC, 60Hz operation

CONNECTING POWER CONNECTION KIT (SEE FIGURES 1, 2 AND 3)

NOTE: Do not exceed 65ft maximum run distance in any single run.

For outdoor use, apply silicone when making power connection and attaching end cap.

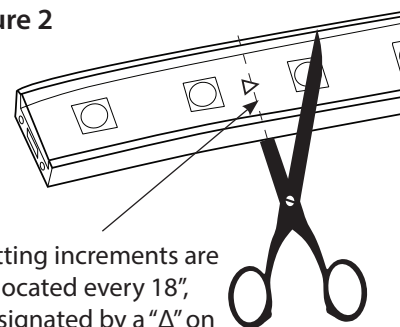
1. Determine the required length for flexible light.
2. Cut the Hybrid2 squarely at the nearest cut mark using a sharp rope light cutting tool or shears. NOTE: 24V Hybrid2 is wired in parallel with 18" cutting increments. Cutting anywhere other than the end/beginning of a cutting increment will damage an LED and/or internal wiring. See Figure 1.
3. Holding the smooth pins of the power pin with a pair of pliers, line up the barbed pins with the two wires of the flexible light. Push barbed pins into Hybrid2 until flush, being sure to make solid contact with the flexible light's internal wires. See Figure 2.
4. Slide the shrink tube over power cord sheath. See Figure 3.
5. Push the power cord sheath onto the assembly until fully seated and slide the heat shrink tube over the power cord sheath so that it is centered over the junction of the Hybrid2 and the power cord sheath. See Figure 3.
6. Gently apply heat using a heat gun to seal the heat shrink over the connection.
7. Attach end cap to other end of flexible light to cover exposed dead end.
8. For indoors, recommended power supplies are as follows:

Wattage Ranges for Various Drivers and Applications

LED Driver	Non-dimming applications	Dimming applications
LED-DR30-24	6-30W (3-11 feet)	1-27W via PWM only! (1-10 feet)
LED-DR60-24	12-60W (5-23 feet)	1-57W via PWM only! (1-21 feet)
LED-DR100-24	20-100W (8-38 feet)	1-97W via PWM only! (1-37 feet)
LED-DR150-24	30-150W (12-57 feet)	1-147W via PWM only! (1-56 feet)
ELV-30-24	3-30W (2-11 feet)	18-30W via most ELV/triac (7-11 feet)
ELV-45-24	3-45W (2-17 feet)	27-45W via most ELV/triac (10-17 feet)
ELV-60J-24	3-60W (2-23 feet)	36-60W via most ELV/triac (14-23 feet)
ELV-80J-24	3-80W (2-30 feet)	48-80W via most ELV/triac (19-30 feet)

To power lengths greater than ± 56 feet, but less than 65 feet (do not exceed maximum run!) check the product specific FAQs on www.americanlighting.com.

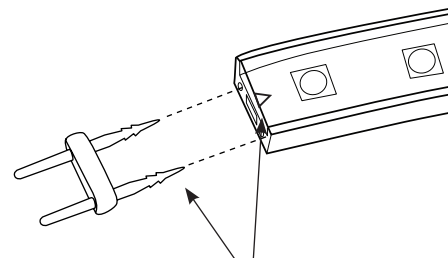
Figure 2



Cutting increments are located every 18", designated by a "Δ" on the top of the housing.

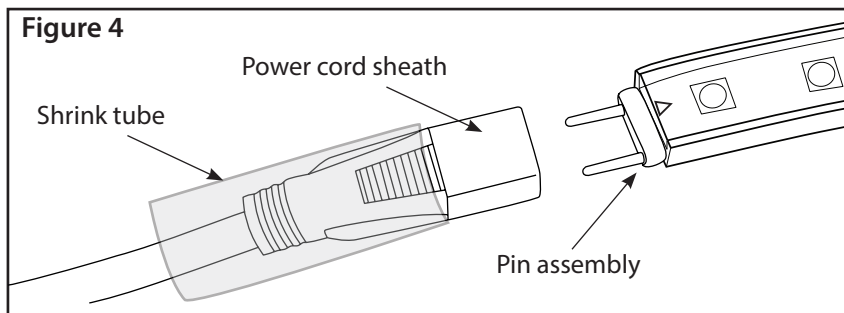
Figure 3

Line up the barbed ends of the power pin with the wires inside housing and push pins in, making solid contact.



Match the barbed side of the power pin with the direction of the "Δ" when connecting power.

Figure 4



MOUNTING:

1. Use mounting clips included with the bulk reel (or order additionally H2-CLIPS, sold separately) or for straight line applications, use H2-TRACK-3 mounting track (sold separately); or use a combination of methods. H2-CHAN-3 aluminum channel is also available (sold separately).
2. Make sure that the distance between any two parallel runs of lighting are at least 1/2" apart.
3. Gently press flexible light into track or clips so that it snaps into place.