

LED-FLEX II, BULK REELS



Instructions for P2-NF-SERIES 24V DC

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 rope light only with P2-NF-CONKIT-NP and 24V DC power supply. Any other power cord or feed may damage the fixture.

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 a 24V DC Driver. Ensure that the voltage of your power supply is compatible!

1. Do not cover this product as the covering may cause rope to overheat, melt, or ignite.
2. **Do not operate LED-FLEX II 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 LED-FLEX II 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 LED-FLEX II 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. Risk of fire. Do not replace attachment plug. Discard product if attachment plug is damaged.
12. LED-FLEX II 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!**
13. This product is designed for use by a qualified installer.
14. This product is for decorative use only. Not to be used by children as a toy. Keep out of reach of small children.
15. Do not exceed 65' maximum run distance in any single run.
16. Size your 24V DC driver appropriately for your run distance of LED-FLEX II using 2.8W/ft as a guide. Be sure not to load your driver to 100% as this will reduce its efficiency. An 80% load is recommended.

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

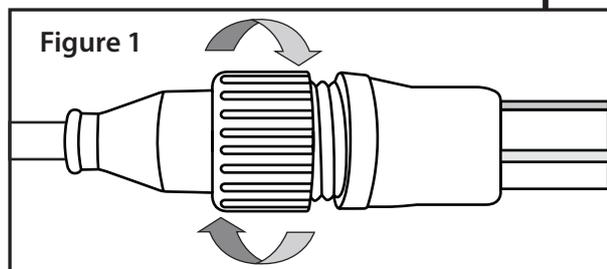
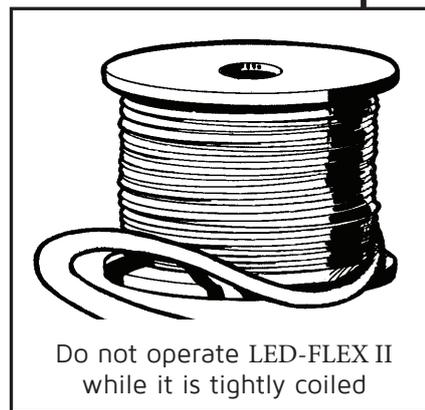
WARNING: When using outdoor portable lighting products, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

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) or outlet(s) when using outdoors.
3. Use only UL approved outdoor extension cords, such as type SW, SOW, STW, STOW, SJW, SJOW, SJTW, or SJTOW. This designation is marked on the jacket of the extension cord.

CONNECTING POWER (See Figures 1, 2, 3, and 4)

NOTE: Do not exceed 150' maximum run distance in any single run.

1. Secure attached power cord by tightening threaded collar to LED-FLEX II. (See Figure 1.)
2. Determine the required length for lighting application. **Do not exceed the maximum run distance of 65'** See directions on reverse for cutting and connecting instructions.



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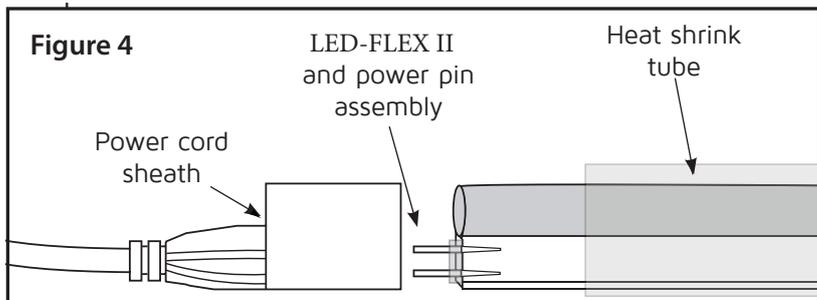
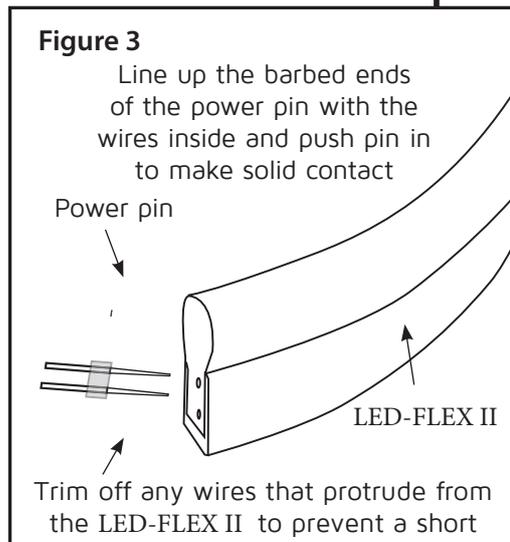
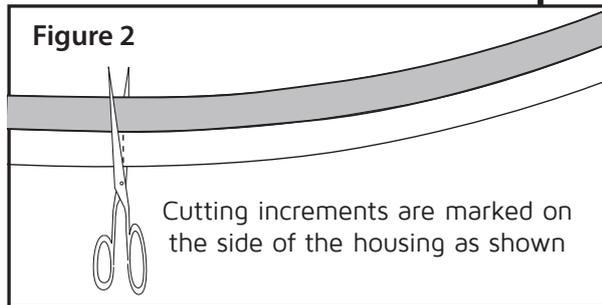


Instructions for P2-NF-SERIES
24V DC

CUTTING LED-FLEX II AND CONNECTING POWER CONNECTION KIT (See Figures 2, 3, and 4)

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

- Cut the LED-FLEX II squarely at the nearest cut mark using a sharp rope light cutting tool or shears. NOTE: LED-FLEX II 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 2)
- 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 LED-FLEX II until flush, being sure to make solid contact with the flexible light's internal wires. (See Figure 3).
- Slide the shrink tube over the assembly and onto the LED-FLEX II.
- Push the power cord sheath onto the assembly until fully seated.
- Slide the heat shrink tube over the power cord sheath so that it is centered over the junction of the LED-FLEX II and the power cord sheath. (See Figure 4).
- When using splice kits and/or jumpers, follow steps 1-6 above, making connections in a similar manner.
- Attach end cap to other end of flexible light to cover exposed dead



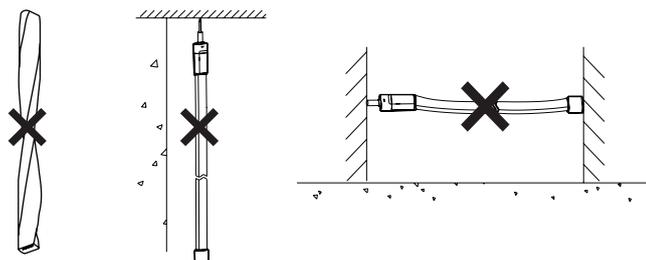
Wattage Ranges for Various Drivers and Applications

LED Driver	Non-dimming applications	Dimming applications
LED-DR30-24	6-30W (3-10 feet)	1-27W via PWM only! (1-9 feet)
LED-DR60-24	12-60W (5-21 feet)	1-57W via PWM only! (1-20 feet)
LED-DR100-24	20-100W (8-35 feet)	1-97W via PWM only! (1-34 feet)
LED-DR150-24	30-150W (11-53 feet)	1-147W via PWM only! (1-52 feet)
ELV-30-24	3-30W (2-10 feet)	18-30W via most ELV/triac (7-10 feet)
ELV-45-24	3-45W (2-16 feet)	27-45W via most ELV/triac (10-16 feet)
ELV-60J-24	3-60W (2-21 feet)	36-60W via most ELV/triac (13-21 feet)
ELV-80J-24	3-80W (2-28 feet)	48-80W via most ELV/triac (18-28 feet)

To power lengths greater than ±52 feet, but less than 65 feet (do not exceed maximum run!)

Mounting:

- Make mounting clips using cut pieces of track (P2-NF-CLIP, sold separately) or for straight line applications, use P2-NF-TRACK-4 mounting track; or use a combination of methods. P2-NF-CHAN aluminum channel is also available (sold separately).
- Make sure that the distance between any two parallel runs of lighting are at least 1/2" apart.
- Gently press flexible light into track or clips so that it snaps into place.



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