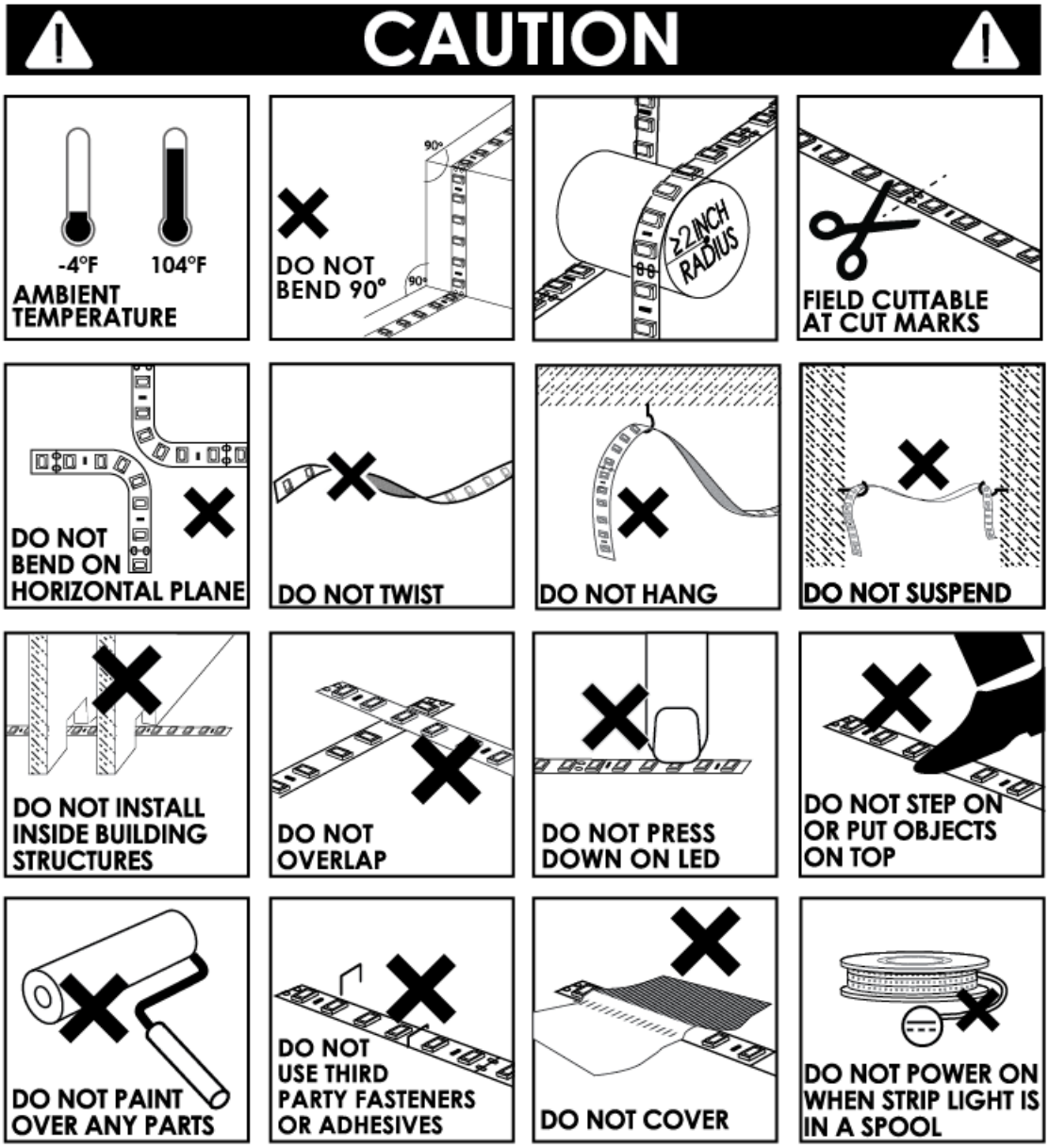
INSTALLATION INSTRUCTIONS
DL-FLEX2-DTW

IMPORTANT SAFETY INSTRUCTIONS

Please read carefully before using product. Protect yourself and others by observing all safety information, warnings and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property.
Please retain instruction sheet for future reference.
When installing or using this product, basic safety precautions should always be followed including the following:

1. Read all instructions before attempting to install this product.
2. Ensure main power is off before installing or wiring this product.
3. Ensure correct voltage is being used for this product.
4. Do not use if there is visible damage to the fixture or cord insulation. Inspect periodically.
5. Do not install in direct sunlight to avoid damaging the phosphor on the LEDs.
6. Do not submerge in any liquid or use the product where liquid might pool.
7. Disconnect electrical power before adding to or changing the configuration of this product.
8. Fixtures must be installed by a qualified/certified electrician in accordance with all national and local electrical and construction codes and regulations.

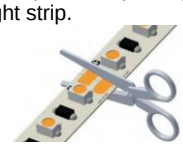


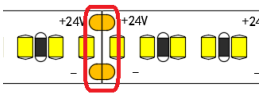
INSTALLATION INSTRUCTIONS

1. Configure design and layout of the system before attempting to install this product. Do not exceed the maximum operating temperature of 104 degrees Fahrenheit. For dry location use only.

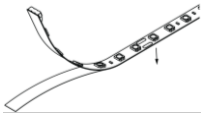
Product	Max Run Length
DL-FLEX2-DTW	16.4 feet

2. Before beginning installation, switch circuit breaker off or remove fuse.
3. **Determine location to install components**
   Refer to **WIRING DIAGRAMS on page 3**
4. **Prepare LED flexible tape for installation**
   Cut the LED strip to desired lengths as required for your application. Only cut the LED strips along the designated cut line as shown. Cutting anywhere else will damage the LED light strip.

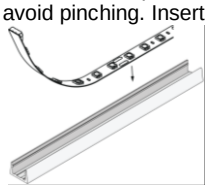




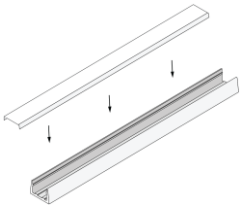
5. **Optional – Assemble Clamp Connectors**
   See **CLAMP CONNECTOR INSTRUCTIONS** on page 4
6. **Mount the LED Flexible tape**
   Clean the mounting surface. Remove backing on the flexible tape to expose adhesive (ensure ambient temperature is minimum 50• F for proper adhesion). Carefully press the flexible tape to the mounting surface. Avoid pressing on the LEDs or any electrical component, avoid using excessive force and avoid pinching. Do not bend tighter than a 2" radius.



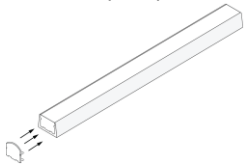
a) Optional – Install into Aluminum Channel
(Channels are field-cuttable)
Install the mounting clips on to the mounting surface (1 clip per 24 inches is recommended). Clean the channel surface. Remove backing on the flexible tape to expose adhesive. Carefully press the flexible tape into the aluminum channel. Avoid pressing on the LEDs or any electrical component, avoid using excessive force and avoid pinching. Insert the channel into the mounting clips.



b) Optional – Install Channel Lens Cover
After inserting the flexible tape, align the channel cover with the aluminum channel. Carefully press the lens into the aluminum channel. The lens will snap into place. Do not use excessive force.



c) Optional – Insert channel end caps for finished look. Live end cap for power feed end and a dead end cap for the other end.

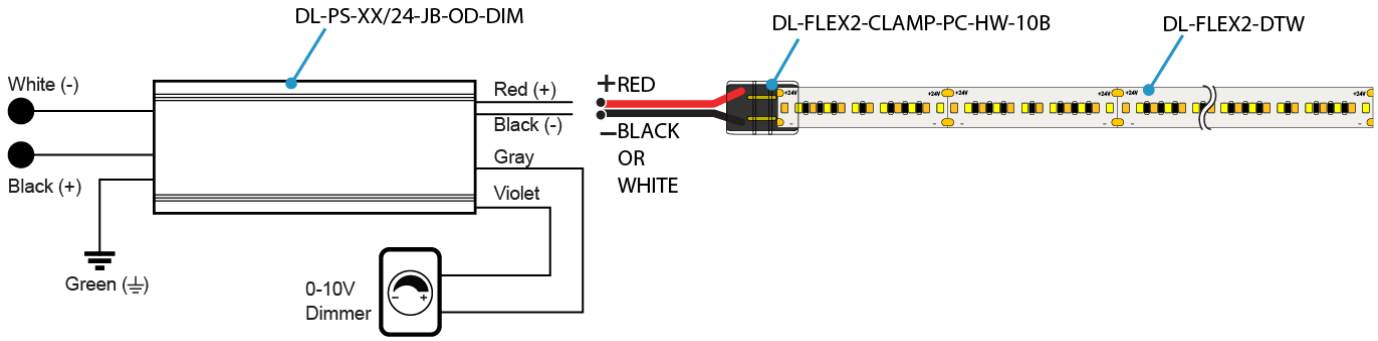


7. **Connect Power Supply**
   Using the power connector, connect to the power supply. Ensure the wires are connected correctly by observing the polarity (positive to positive, negative to negative).

WIRING DIAGRAMS

NOTE: Vertical mounting recommended for LED drivers
NOTE: Leave at least 1" spacing between LED drivers to allow for airflow to prevent heat buildup
NOTE: Leave the power connector with enough slack to account for expansion and contraction due to tempearature changes

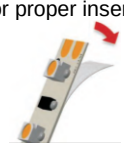
Dimming Option – 0-10V (Using our DL-PS-XX/24-JB-OD-DIM drivers).



INSTALLATION INSTRUCTIONS
DL-FLEX2-DTW

CLAMP CONNECTOR INSTRUCTIONS:

1) **Preparing the tape:**
   b) Slightly peel back the adhesive tape near the end to allow for proper insertion into the clamp connector.



2) **Preparing the tape end of the clamp connector:**
   a) There are 2 types of connectors, wire-to-tape (DL-FLEX2-CLAMP-WT) and tape-to-tape (DL-FLEX2-CLAMP-TT). The wire-to-tape connectors will have one wire end and one tape end

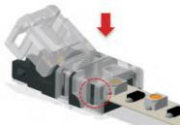
Tape to tape connector shown with tape end facing out

Wire to tape connector shown with wire end facing out

You can visibly recognize which end it is since the wire end has ridges for the wire while the tape end has pins to puncture the copper pads on the tape.

   b) Regardless of the type of connector, begin with the tape end. Open the transparent upper cover of the connector as shown up to 80 degrees. If already locked down, first carefully pry open the sides of the cover using an appropriate tool so as not to damage the connector and then open the cover. Do not force open while the sides are locked as it might damage the cover. If it is a tape-to tape connector, then follow the same procedure for the other tape end of the connector also.

3) **Inserting the tape:**
   a) Insert the LED strip into the now open tape end of the connector. Align the copper pads on the LED tape above the pins on the connector (do not push in all the way) and then snap the cover close. The cover should press down until it is secured on the side by the notch as shown in the image in the red dotted circle.

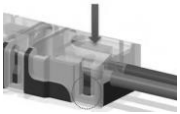


   b) If it is a tape-to-tape connector, repeat the previous step. Make sure the polarities match on both the LED strips, the polarities are printed on the PCB of each LED strip.

4) **Preparing the wire end of the clamp connector:**
   a) If using a wire to tape connector, open the transparent upper cover of the connector as shown up to 60 degrees. If already locked down, carefully pry open the sides of the cover using an appropriate tool so as not to damage the connector and then open the cover. Do not force open while the sides are locked as it might damage the cover.

   b) Cut the wires to the desired length as needed for the application. Do not strip the insulation off the wires since the clamp connectors are insulation displacement connectors.

5) **Inserting the wires:**
   a) Insert the wires into the wire end of the clamp connector. Make sure the polarities are correct while making the connection (The wire on the positive side of the tape should connect with the postive terminal of the power supply and vice versa). Close the cover by pressing down the cover until it is locked in place by the side notch. The wires should sit on the ridges otherwise cover cannot be closed properly.



NOTE: Use 18-22AWG cable with outer diameter of ø1.5mm to ø 2.1mm