

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
- Do not bend side to side, product is only bendable from front to back.
- Do not cover the product with insulation, paint, caulk or any substance not approved by the manufacturer.
- Do not apply power when tightly coiled.
- Maintain half inch spacing between parts.
- Do not puncture, cut, shorten or splice outside of the designated cutting marks.
- Do not route through walls, doors, windows or building structures.
- Do not mount inside cabinets, unless properly ventilated.
- Do not unroll the tape with the LEDs facing down on a rough surface or over sharp corners. This will scratch and damage the LEDs.
- When unrolling or installing do not twist, pull or kink the product.
- Do not secure with staples, nails or like means that may puncture or damage the tape.
- Do not install in locations where it is subjected to continuous flexing.
- Do not submerge in liquid or apply near standing water.
- Do not operate in temperatures exceeding 60°C (140°F).
- Do not operate on circuits that do not have proper surge suppression protection. High voltage spikes will damage the LEDs.
- Do not operate over specified voltage, LED life degradation will be greatly increased.

SAVE THESE INSTRUCTIONS!

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The specialtyLED FTK tape is constructed of extremely small Light Emitting Diodes (LED) mounted on a thin flexible copper strip. Due to the construction of the product, special care should be taken during the installation process in order to avoid damaging the LEDs or any of the resistors.

Installation:

1. Flexible tape kit contains (1) 16.4' roll of LED tape light, (3) LED strip to strip connectors, (3) LED strip to strip corner connectors and (3) LED strip to power supply connectors. **The kit does not include dimming and non-dimming transformers as well as linear mounting channels as they are sold separately.**

2. Measure the installation location to determine product length. Due to circuitry, FTK has 2" cutting increments (SMD3528) and 4" cutting increments (SMD5050).

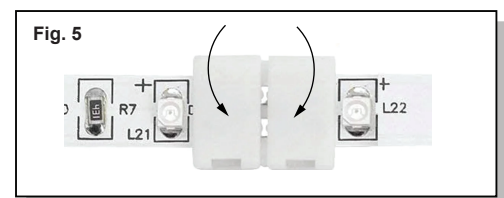
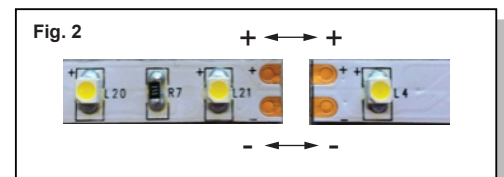
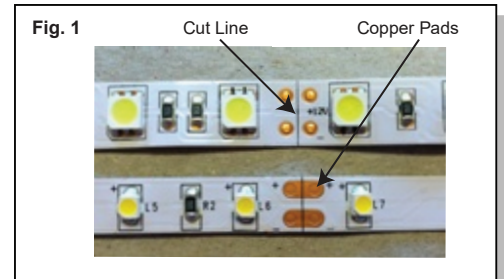
3. Measure the FTK tape to match required installation length. Locate the closest cutting mark, this is designated by a line between 4 copper pads. (Fig. 1)

4. Using scissors, make an even cut through product exactly on the line. If cut outside the line the product can be damaged. **NOTE:** It is imperative to use a sharp cutting blade to make a straight cut. Sharp blades will help you avoid pulling the internal circuitry while making the cut. Stretching or pulling can damage the product.

5. Make the proper connections as follows:

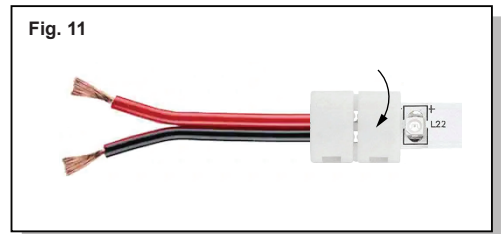
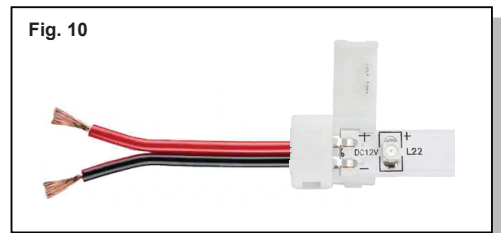
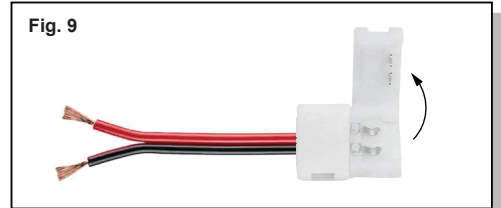
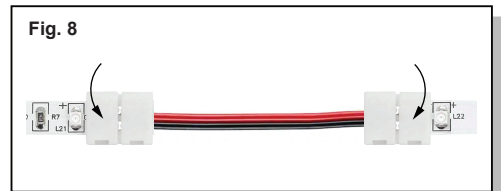
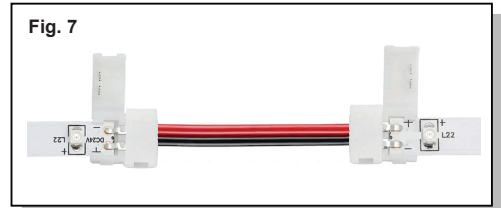
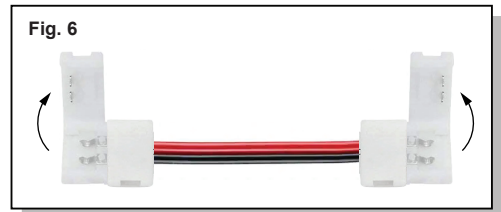
5a. Making a Tape-to-Tape Connection: (Strip to Strip Connector)

1. Ensure the polarity of the conductors on the two pieces of tape light to be connected are aligned (Fig. 2).
2. Using a tape-to-tape snap connector, open both sides of the connector so the metal teeth inside are exposed (Fig. 3).
3. Peel a small portion of the protective backing from the tape light on the end to be connected, then insert cut tape light end so the copper pad conductors are aligned with the metal teeth inside (Fig. 4).
4. Close snap connector and use pliers to ensure the connector "snaps" through the tape light (Fig. 5).



5b. Making a Tape-to-Tape Connection: (Strip to Strip Corner)

1. Ensure the polarity of the conductors on the two pieces of tape light to be connected are aligned (Fig. 2).
2. Using a tape-to-tape snap connector, open both sides of the connector so the metal teeth inside are exposed (Fig. 6).
3. Peel a small portion of the protective backing from the tape light on the end to be connected, then insert cut tape light end so the copper pad conductors are aligned with the metal teeth inside (Fig. 7).
4. Close snap connector and use pliers to ensure the connector “snaps” through the tape light (Fig. 8).



5c. Making a Tape-to-Wire Connection:

1. Ensure the polarity of the conductors on the two pieces of tape light to be connected are aligned (Fig. 2).
2. Using a tape-to-wire snap connector, open the one side of the connector so the metal teeth inside are exposed (Fig. 9).
3. Peel a small portion of the protective backing from the tape light on the end to be connected, then insert cut tape light end so the copper pad conductors are aligned with the metal teeth inside (Fig. 10).
4. Close snap connector and use pliers to ensure the connector “snaps” through the tape light (Fig. 11).

5c. Making Waterproof Connections (if applicable):

1. If the strip needs to be cut to length or into two or more lengths, all non-powered ends have to be sealed using a closed end cap. Fill the closed cap to the top with silicone. Then carefully place the filled cap on the end of the strip. Make sure all gaps are filled and a good seal is made.
2. All powered ends have to be sealed using a pierced end cap and power wires. Thread the wires through the holes in the pierced end-caps. Fill the end-cap with silicone from the tube. Gently push the end-cap on to the strip and make sure the gaps around the strip and end-cap and the protruding wires are completely sealed.
3. It is recommended that the silicone is allowed to dry for 24 hours and 7 days to cure before exposing to water.

6. Connect the driver to the wire leads of the FTK tape in accordance with current electrical codes and the current National Electric Code (NEC).
7. Test product to verify connections are correct prior to securing.
8. Prepare mounting surface by removing dirt, debris or moisture. Remove backing of 3M double-sided adhesive tape to adhere product to surface. Gently press on the tape evenly to ensure that the product adheres to the surface. Do not push directly on LEDs as this will damage the LEDs.

TROUBLE SHOOTING

Product will not light:

- Verify that there is power to the receptacle feeding the product.
- Check the GFCI and see if it is tripped.
- Check the driver and make sure it has power.
- Verify product polarity is correct.

Product does not light for the first 8" - 30":

- Product was cut incorrectly. It will be necessary to re-cut the product at the correct designated locations and reassemble.

Product has a dark section in the run:

- This indicates the product was pulled, twisted or kinked and the circuitry was damaged.
- It will be necessary to cut new product or cut out the damaged section and splice a new piece in its place.