

**SAVE THESE INSTRUCTIONS!**

**READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY**

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure the electricity connections conform to the National Electrical Code 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 readily be 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.

The specialtyLED Ribbon Flex is an extremely small profile product made up of Light Emitting Diodes (LED) mounted on a thin flexible copper strip. The wet version has a clear flexible silicon housing. Due to the construction of the product, special care needs to be taken during the installation process in order to avoid damaging the LEDs or any of the resistors.

**INSTALLATION INSTRUCTIONS**

**SAFETY PRECAUTIONS:**

- Do not over bend to the side, product is only bendable front to back.
- Do not cover the product unless done so with extreme caution and attention to ventilation.
- 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, tanks or enclosures unless properly ventilated.
- Do not unroll on a rough surface or over sharp corners. This will scratch or 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 can damage the insulated PVC housing.
- Do not install in locations where it is subject to continuous flexing.
- Do not submerge in liquid or apply near standing water.
- Do not operate in temperatures exceeding 149°F (65°C).
- Ground Fault Circuit Interrupter (GFCI) protection should be provided on all circuits when used for outside applications.
- 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.

**General Material/Tool Requirements:**

Material needed for installation:

- RFX Ribbon Flex Reel (16.4')
- RFX Transformer
- RFX accessories (Optional)

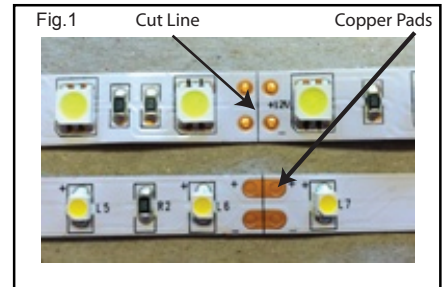
- Additional wire as needed for connections
- Measuring tape
- Scissors

1. Measure the installation location to determine product length. Due to circuitry, RFX has a 2" cutting increment.

2. Measure the RFX to match required installation length. Locate the closest cutting mark. This is designated by a line between 4 copper pads. (Fig. 1)

3. Using scissors, make an even cut through product exactly on the line. If cut off 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 the product can result in damage.



4. Connect the transformer to the wire leads of the RFX in accordance with current electrical codes and the current National Electric Code (NEC). Transformers are IP67 rated / Class 2 power supplies. Install the transformer within 10' of the RFX.

Part Number - 12 volt	RFX*-12V (2.25W/Ft)	RFX*-12V-5050 (5.56W/Ft)
XFMR-12-20	7.1'	2.87'
XFMR-12-35	12.44'	5.04'
XFMR-12-60	21.33'	8.63'
XFMR-12-150	50.00' MAX	21.58'
XFMR-DIM-12-20	7.10'	2.87'
XFMR-DIM-12-40	14.22'	5.75'
XFMR-DIM-12-60	21.33'	8.63'
XFMR-DIM-12-96	34.13'	13.80'
XFMR-DIM-12-120	42.66'	16.4'

Part Number - 24 volt	RFX*-24V (2.25W/Ft)	RFX*-24V-5050 (5.56W/Ft)
XFMR-12-20	7.1'	2.87'
XFMR-12-35	12.44'	5.04'
XFMR-12-60	21.33'	8.63'
XFMR-12-150	50.00' MAX	21.58'
XFMR-DIM-12-20	7.10'	2.87'
XFMR-DIM-12-40	14.22'	5.75'
XFMR-DIM-12-60	21.33'	8.63'
XFMR-DIM-12-96	34.13'	13.80'

5. Test product to verify connections are correct.

6. Adhere product to surface. Do not push directly on LEDs as this will cause damage to LEDs.

**ACCESSORIES**

- RFX-CSS-XXX is designed to join (2) cut sections together. (Fig. 2)
- RFX-CSS-FLEX-XXX is designed to join (2) cut sections together with 2" wire spacing allowing the RFX to bend or turn corners. (Fig. 3)
- RFX-CSP-XXX is designed to provide wire leads to a cut section of RFX, to be used to assist with connection to the transformer. (Fig. 4)

**NOTE:** When Connecting RFX accessories attention to polarity is require.

- When connecting lengths together keep all negatives (-) on one side and all positives (+) on the other. Failure to do so will leave a section non-working. (Fig. 5)
- Peel the silicon sleeve back approximately 1/8" and slide the tape under the connector terminals, aligning the copper dots with the terminal prongs. Snap cover down to secure the RFX in place. (Fig. 6)

**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 transformer and make sure it has power.
- Verify product porlarity 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 location and reassembled.

Product has a dark section in the run.

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

