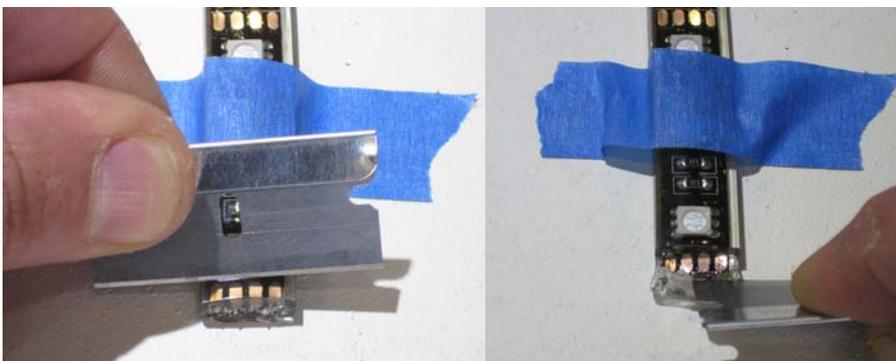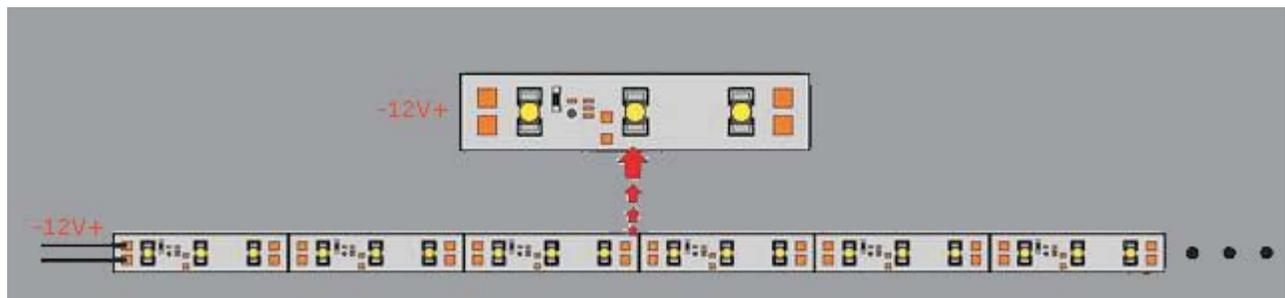# Congratulations on your purchase of LED Flexible Ribbon Strip Lighting!

Flexible LED Ribbon Tape is a very versatile lighting product that can be customized for your particular application. LED Ribbon Strips are excellent for under cabinets, under dash boards/seats, in trunk or engine compartments, glass edge or back lighting, shadow box lighting, shelf or cabinet lighting. Use the water resistant version under cars, around your bar, boat, limo and more. The possibilities are endless!
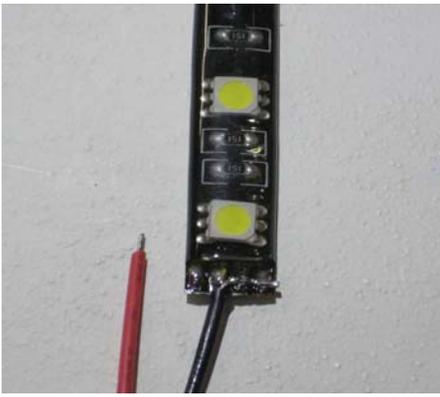
The Flexible Ribbon strip runs off **12 volts DC** (Direct Current) only. 24vDC is custom ordered. Observe polarity of Positive(+) and Negative(-) when connecting the power source. If the unit does not light, reverse the polarity and try again. You will not damage the LED Flexible Ribbon strip with connecting the 12vDC power source reversed; it simply will not light.

Cutting your LED Flexible Ribbon Strip is simple. Using a pair of sharp scissors cut the strips at the cut lines (about every three LEDs). Be careful to cut exactly along the marking; leaving both of the solder dots on each remaining half intact.
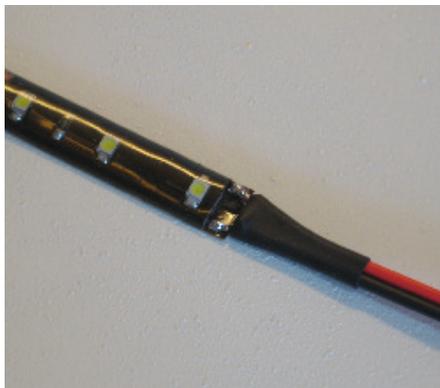
The clear silicone coating must be removed from the solder points to make your wire connections or to connect to your power source. Using a straight razor blade and using EXTREME CAUTION not to slice through the black circuit board backing, slice the silicone coating and scrape the coating off the PCB (circuit board backing).

You will need to solder leads to the remaining piece(s) to power them with your 12vDC supply. Using a low wattage soldering iron and electronic grade solder, attach you NEGATIVE lead with solder across ALL THREE Negative connectors – This is a "Tri-Chip" product and needs all Three (3) Negative leads connected to the Negative(-) copper solder dots on your next piece.
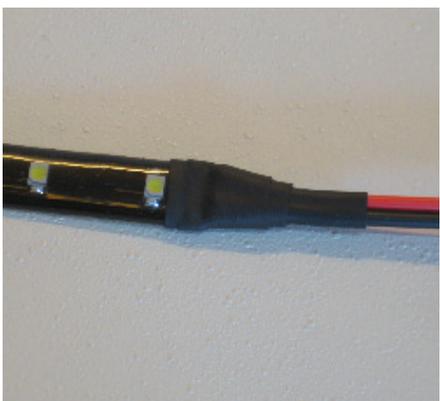
Trim, Tin and solder your POSITIVE lead to the 12v+ (Positive Lead) Remaining. These will be marked at each factory solder joint (about every 18 inches). Take care not to short the positive and negative leads – Pretest before heat shrinking.

We recommend using a 1 inch section of ¼" heat shrink tube over the ends of your leads. A second section of ½" heat shrink should then be applied over the remaining exposed leads/connection; finishing the waterproofing process. We have found that this reinforces and secures the soldered leads and LED Flexible Ribbon connection. For added waterproofing, use a marine grade (glue lined / double wall) heat shrink to seal the joint permanently.

Shrink the heat shrink mostly around your lead ends. Over-heating will bend the end of your LED tape and could ruin your connection.

Multiple strips and/or colors can be connected together. Individually powered strips should always be connected in parallel (directly back to the 12vDC power source or main feed. Do not exceed THREE 5-Meter spools total length (15 METERS or 49.2 Feet).

Make sure the surface you apply the 3M™ tape to is smooth, clean and dry. Remove tape backing and apply your LED Ribbon tape to the surface pressing along the entire surface. Connect to a 12vDC power source and/or switch and enjoy!

Creative Lighting Solutions offers low voltage connectors, Lever Lock terminal blocks, bulk wire, remote controllers and dimmers to make your installation a cinch! Visit us at http://www.CreativeLightings.com for more information or to place an order today!

KEEP UNUSED PORTIONS OF WP/Water Resistant product in an air tight sealed baggie. The longer the Resin coating is subject to air, the quicker it will harden and become brittle.

*"Waterproof" LED strips are IP66 Rated. This means they can stand up to a constant spray of water for a period of time. If water/moisture is allowed to pool around the sides or the ribbon lighting itself, it will de-laminate (Gel Resin Coated product) and fail. Please keep the "Water Resistant" strips relatively dry. Extremely wet or constantly moist environments void the warranty of this product. Our IP68 (Totally sealed and coated product) can be submersed up to 3ft for water features!