

Instructions for Terminating LPC Cables

Background

LPC Cables from Blue Trail Engineering have a tough, cut-resistant polyurethane jacket. On the inside, they are filled with a urethane resin to prevent crushing at depths up to 600 meters. Because of the tough jacket and the urethane filling, it can be difficult to expose the wires using the traditional method of removing the jacket with wire strippers. Instead, follow the instructions below for exposing the wires.

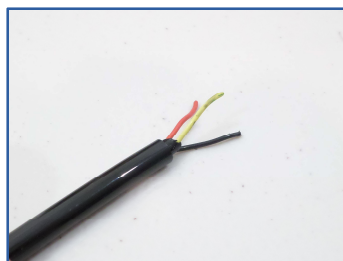
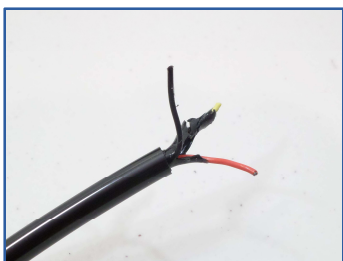
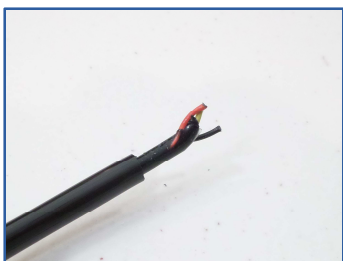
LPC Cables can be potted into your assembly using urethane potting compounds. Always make a sample of potted cable and check for proper adhesion.

Instructions

1. Cut the cable to the desired length.
2. Using a sharp X-Acto knife, make a shallow cut around the perimeter of the cable jacket where you want to remove the jacket. *Do not cut all the way through; just score the jacket.*
3. Using a small pair of wire cutters, make a lengthwise cut through the jacket starting at the end of the cable and ending at the score line that you made in step 2. Be careful not to cut through the wires on the inside of the cable. Then use a pair of pliers to remove the jacket. It should come off cleanly at the score line.



4. Separate the wires and use your fingers or a small pair of needle-nose pliers to pull the urethane filling off the wires.



5. If you will be potting the end of the cable, prepare the cable jacket by cleaning with alcohol and scuffing vigorously with 120-grit sandpaper until the cable jacket is dull (because of the abrasion resistance of the cable jacket, it will take significant effort to scuff it properly). In order to get the best adhesion possible, it is best to wait until just prior to potting to clean and scuff the cable.