

TEXTILE PUSH BUTTON KIT

All our kits are made with the concept 'just add a needle', so the first thing to do is finding a sewing needle.

This kit includes:

1. Textile push button
2. Battery holder
3. Battery
4. LED
5. Conductive sewing thread

As a first step place the LED and the battery holder on the fabric push button as shown in the following picture:



Pay attention that longer LED leg MUST be closest to the battery holder and battery holder MUST be positioned with this orientation or the circuit will not work.

Remove the battery holder from the fabric and gently push both LED legs through the fabric, so that they can be seen on the other side.



Using tweezers or needle nose pliers, (also works with your fingers and the tip of a pencil) bend the legs of the LED as in the picture, showing the reverse of the fabric. Be extremely careful because terminals are delicate and might break. Legs must be bent so that they are not in contact.



Thread the needle with conductive thread and start sewing the edge of the textile button, taking care that the two fine wires on the side of the button (close to the LED leg) are wrapped by your stitch. Make at least 4 or 5 stitches. While sewing, pay attention NOT to create short circuits with conductive filaments. Even a few conductive filaments in the wrong place can compromise the functioning.

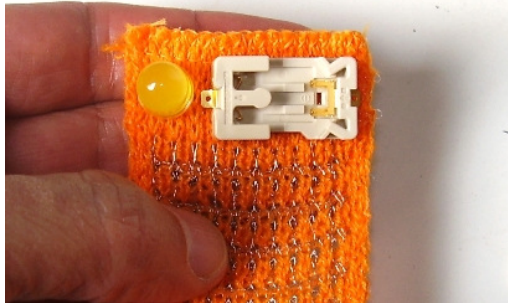


Then, without cutting the thread, sew the first LED leg:



Go around the LED leg with the conductive thread several times and at the end tie a few good knots, so electrical conductivity is guaranteed.

Turn the fabric on the front side and place the battery holder as indicated in the following picture. *Pay attention to the orientation of the battery holder* or the circuit will NOT work.

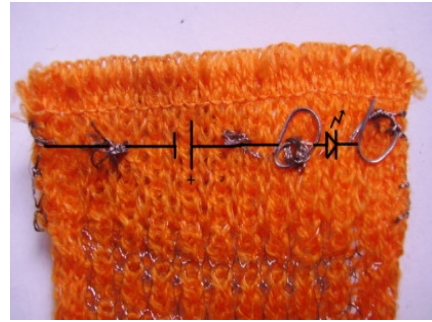


Hold the battery holder in position with your fingers, turn the fabric on the back side and sew the free LED leg to the battery holder terminal close to it. Then connect the opposite battery terminal to the fine wires on the other side of the button (see black lines in the picture below).

In total you'll have to sew three stitches:



This is the electronic circuit we want to make, seen from the back.



The button has two more sets of fine wires on the other side of the sensitive area. You might want to cut them short to avoid unwanted contacts.

When finished, insert the battery with positive (+) side on top and press to light the LED!

