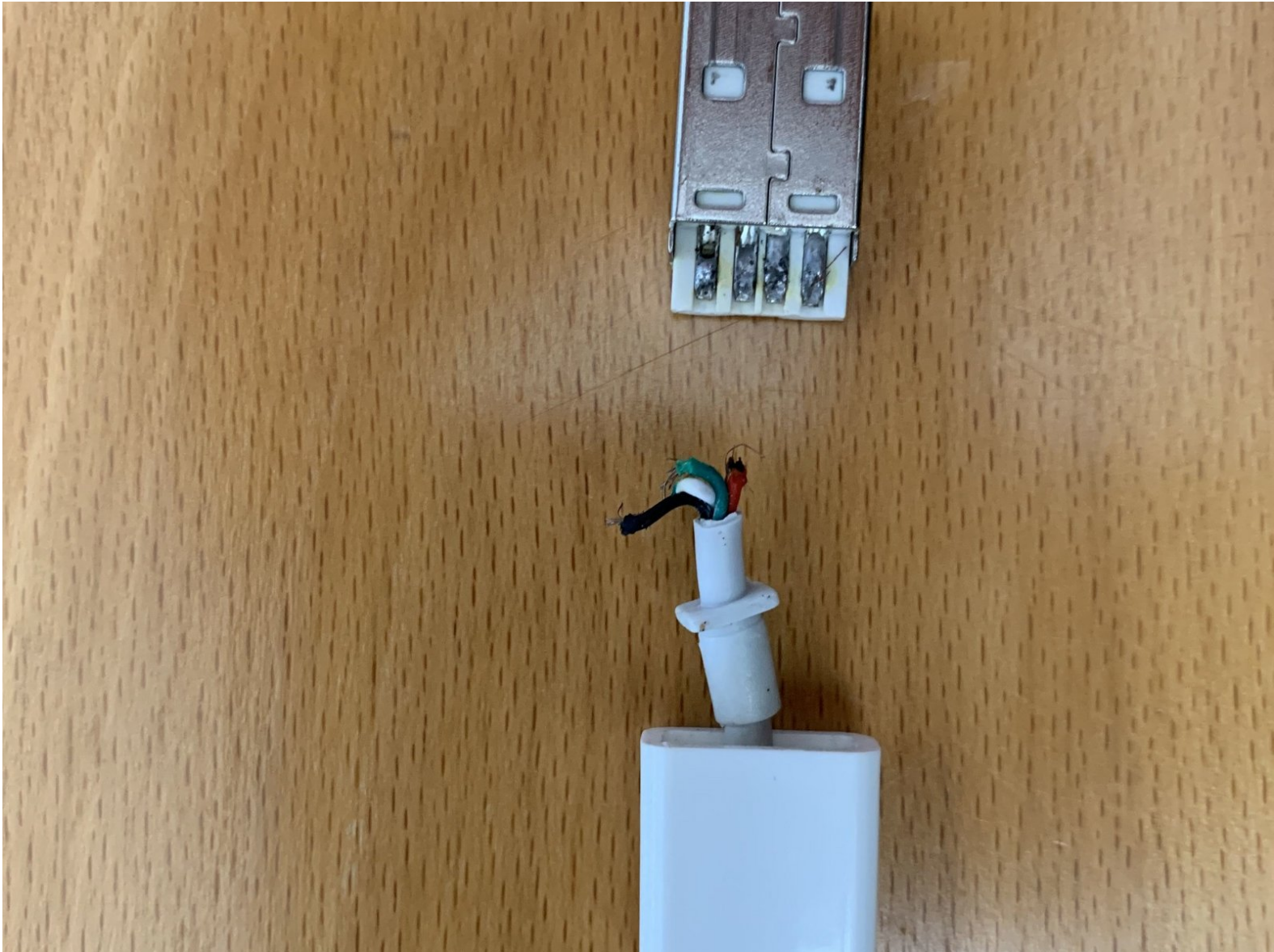




# USB connector repair

a faulty USB cable is very likely a soldering connection come loose. Or in my case, all 4 of them!

Written By: palako

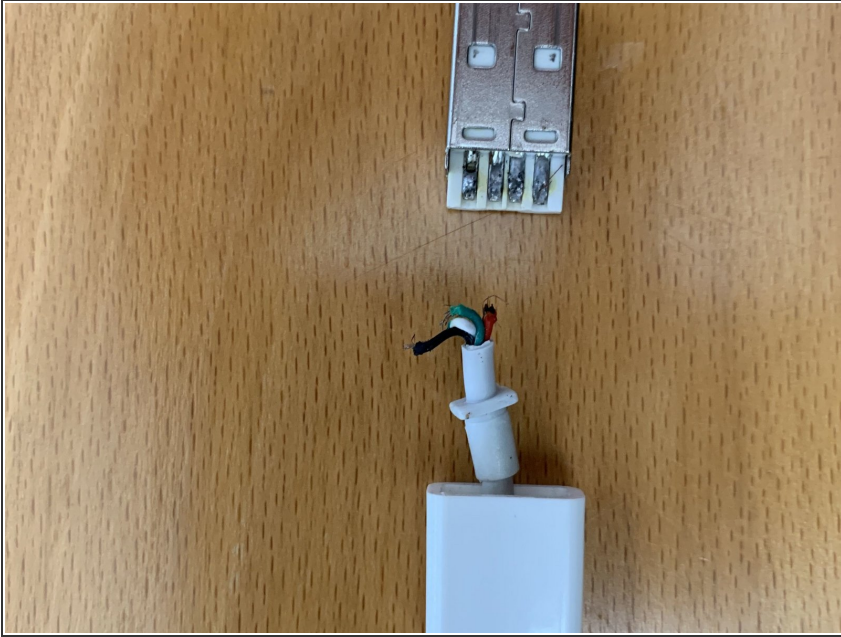




## TOOLS:

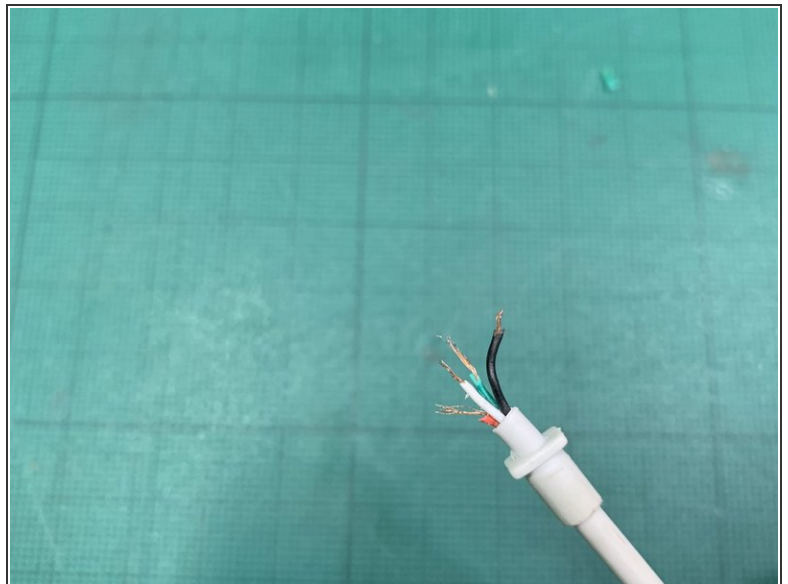
- [Soldering Iron](#) (1)
- [helping hands](#) (1)
- [Multimeter](#) (1)

## Step 1 — Find out which cable goes to which connector



- before separating the parts pay attention to the colours of the wires, which ones goes to which connector. Always a good idea to take a picture. On this apple USB cable (30-pin first generation to USB) it goes, left to right, black, white, green, red.

## Step 2 — Preparing the wires for soldering



- Cut the wires to expose enough copper to be able to solder them to the connectors. Try to get all four to the same length.

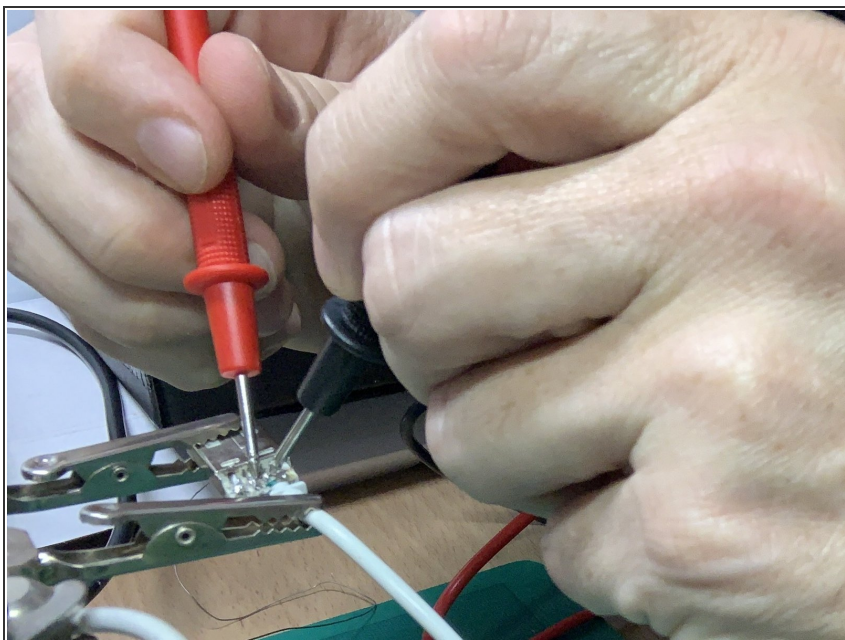


### Step 3 — Solder the wires to the connectors



- Proceed with the soldering. Very likely just heating up the solder that was in the connector will be enough to push the wire when it is melted. Otherwise, just add a tiny bit more of solder on top.
- A pair of soldering helping hands is very useful for this kind of soldering.

### Step 4 — Check for shorts



- With a multimeter, check that the pads are not in contact, either from overflowing solder or from loose wires.
- If there were any shorts, you might need to reheat the solder to make sure that stays within a single connector, or you might need to cut any wire that would be crossing from one connector to another.

It's only marked as difficult because it requires to know how to solder. It's a very easy soldering job though.