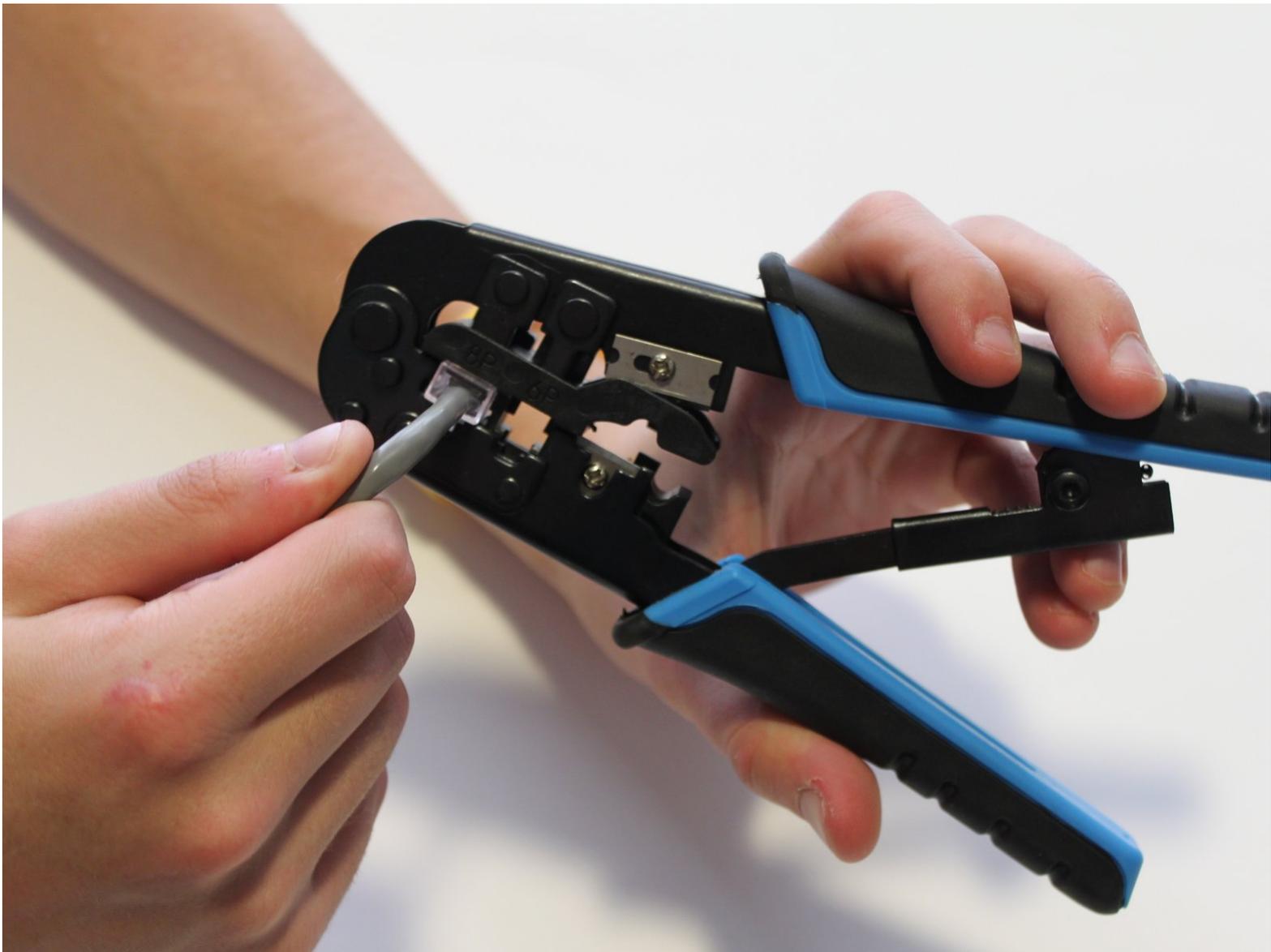




Ethernet Cable RJ45 Connector Replacement

This guide will cover removing a damaged RJ45...

Written By: Wesley Bigalke



INTRODUCTION

This guide will cover removing a damaged RJ45 connector from an Ethernet cable and the steps to replacing it with a new one using the T568B standard. This requires a wire cutter/stripper/crimper tool and an RJ45 connector.



TOOLS:

- [Crimping Pliers for Western plugs](#) (1)
- [Wire Stripping Tool](#) (1)



PARTS:

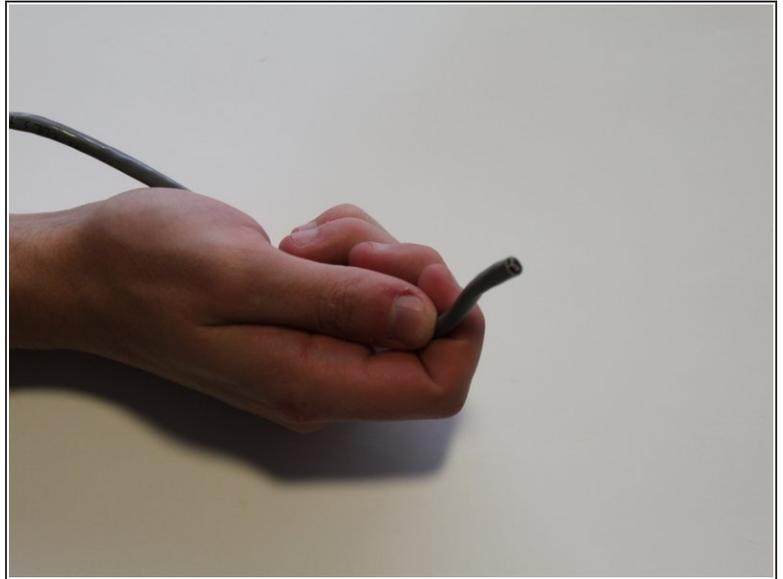
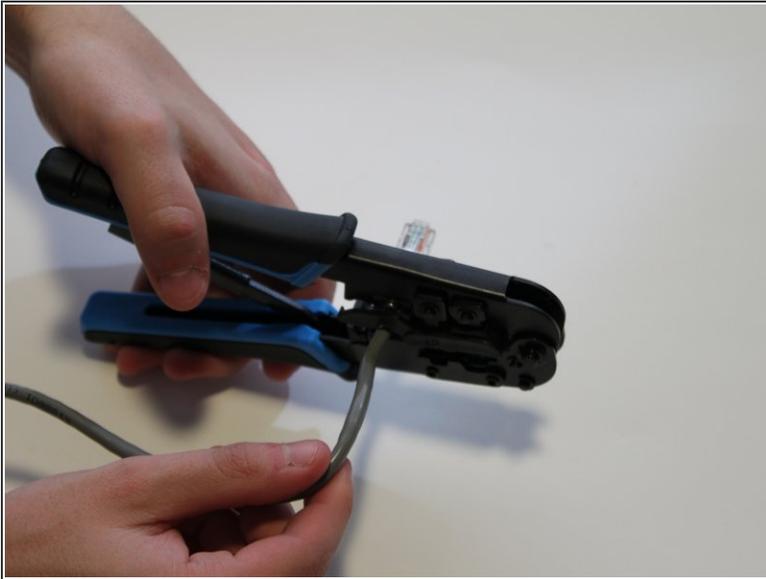
- [RJ45 Connector](#) (1)

Step 1 — Identify the parts of the tool



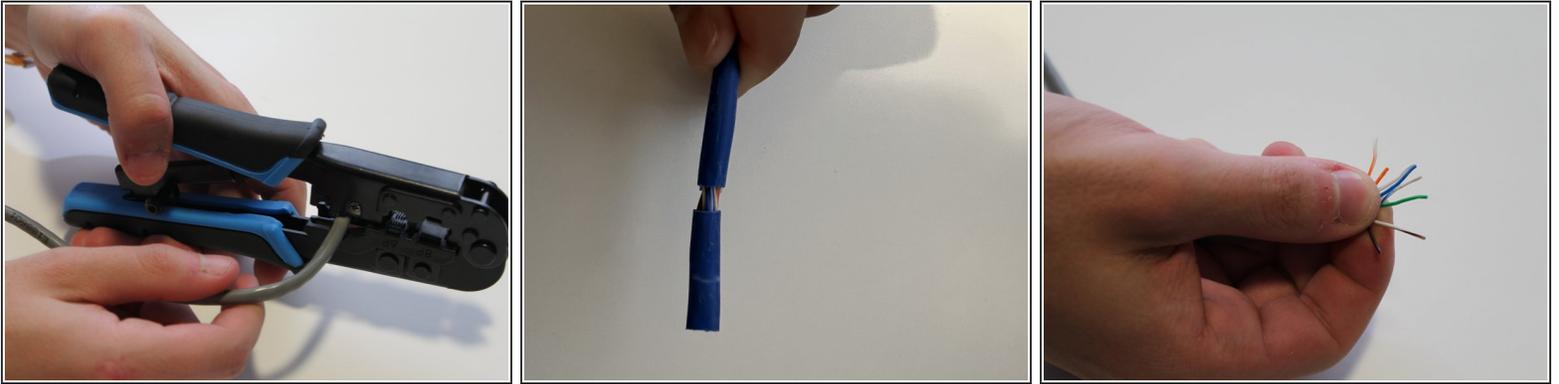
- First let's identify which side of the tool performs which functions.
 - One side of the tool is used for stripping wires. You can tell because it has two blades, one on each side, as indicated in the first photo.
 - The other side is used for cutting wires. You can tell because one side is bladed while the other is flat, as seen in the second photo.
- ⓘ If you are using a slightly different tool, the use of it will still be very similar to how it is shown in this guide.

Step 2 — Cut the wire



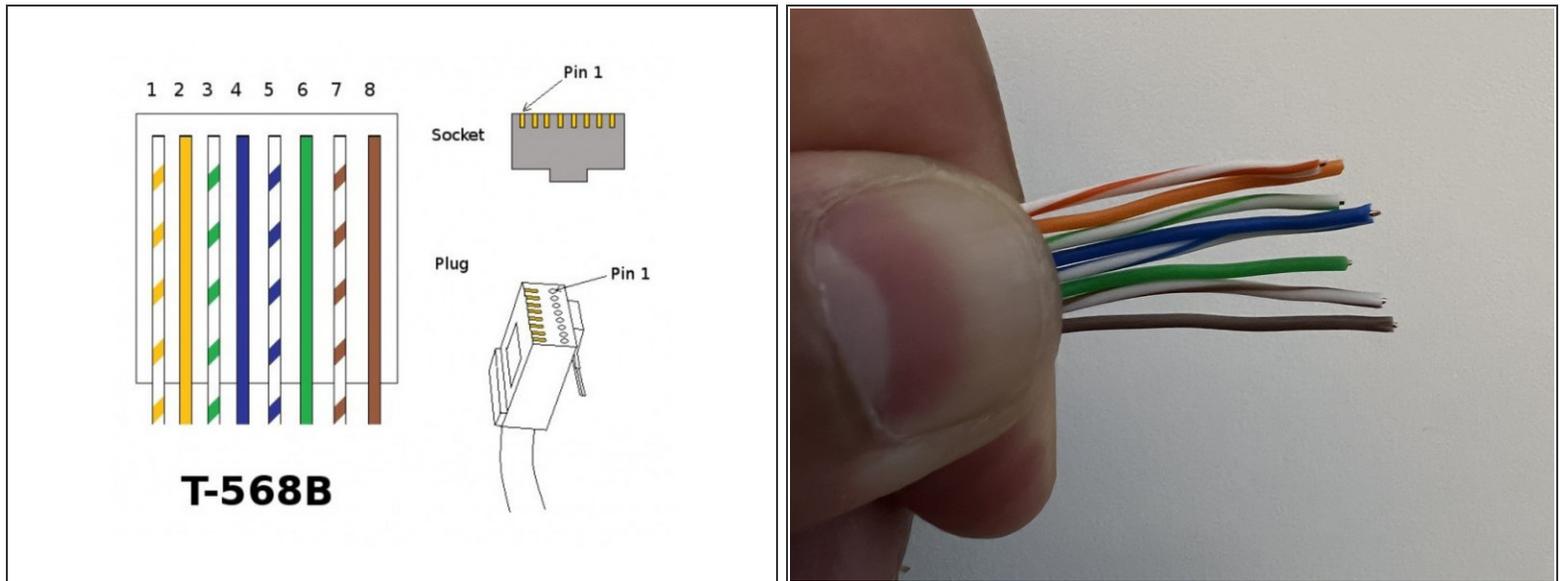
- Place the wire across the blade of the wire cutter.
- Squeeze the handles of the tool together until the wire is cut.

Step 3 — Strip off the cover



- Place about a quarter of an inch of the cable into the stripping end of the tool.
- Squeeze the handles of the tools together until the tool clicks and then release.
- Pull the stripped wire cover from the cable with your fingers.
- ⓘ If your wire cutter does not have a side specifically for stripping wires, you can simply use the wire cutting part but not squeeze the handles all the way down, so that it only cuts the outer casing of the cable.
- When you have successfully completed this step, the cable should appear similar to the third photo of this step.
- ⓘ If you have shielded cable above Cat.5e you might want to follow [this guide](#) for stripping.

Step 4 — Organize the wires



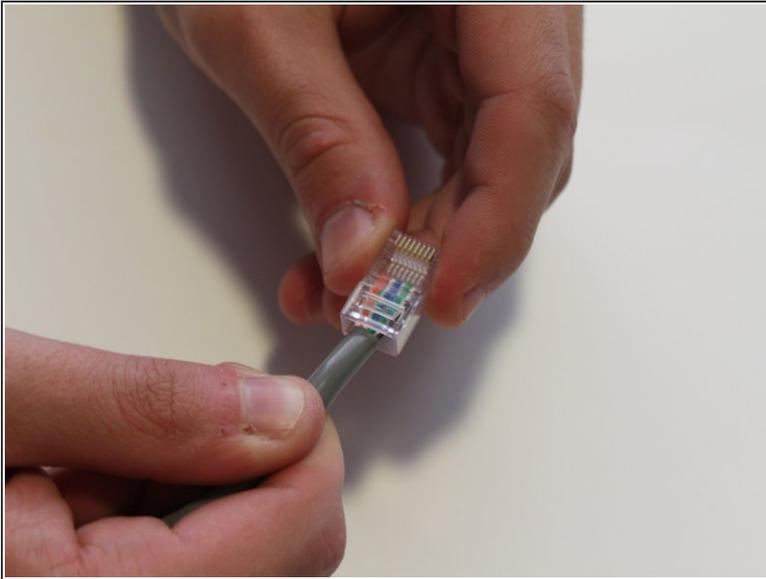
- Arrange these cables in the order shown in the diagram.
- Use your fingers to squeeze the cables about to keep them in order.
- ⓘ This is how the cables will be inserted into the connector.
- ⓘ If you have S/FTP cables you likely won't have half white/coloured wires. These wires will instead be pure white and you will have to go by the colour of its partner in the twisted pair.

Step 5 — Trim the wires



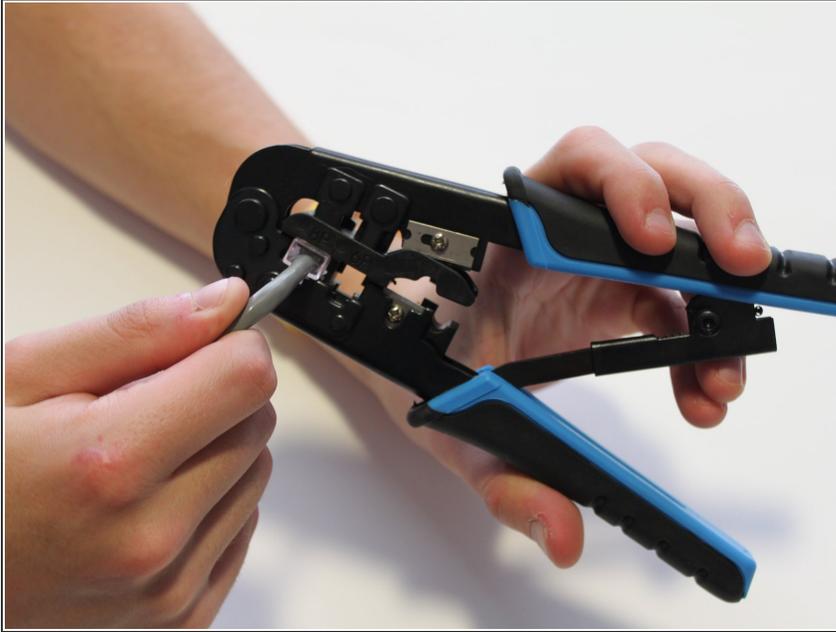
- Insert the cables into wire cutters.
- Cut all the cables at the end so they are flush together.
- ☑ Keep squeezing on the cables even after the cut to ensure they maintain the correct order.

Step 6 — Insert the new RJ45 connector



- Hold the wires closely together in the order shown in the previous step and push them into the new RJ45 connector, with the clip end of the connector facing down, and the orange/white wire to the left.
- Push the wires to the end of the connector ensuring that all wires enter their respective chambers in the connector.
- If you inspect the top of the connector you should be able to see the tips of the wires pushed against the end of the connector, as shown in the second photo in this step.

Step 7 — Crimp the connector



- Place the RJ45 into the crimper at the end of the tool. Push it in all the way, it will fit exactly in the tool—you can not push it in too far.
- Squeeze the handles of the tool together until it clicks and releases.

You have now replaced the RJ45 connector, you may test the fix by using [using a cable tester](#). If it does not work, you can always follow the steps in this guide to try again.