

Terminating CAT5e Cable

This section outlines step-by-step procedures for terminating CAT5e cable using a crimping tool, UTP cable stripper, and RJ45 connector.

Step 1 | Trim cable

Using a Crimping Tool, trim the end of the cable you're terminating to ensure that the ends of the conducting wires are even.



Step 2 | Strip jacket

Being careful not to damage the inner conducting wires, strip off approximately 3cm of the cable's jacket, using a modular crimping tool.



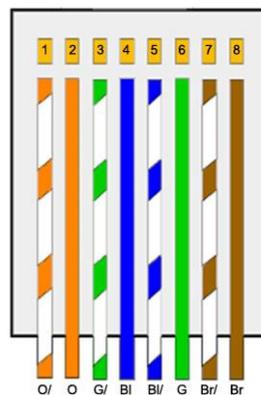
Step 3 | Separate wires

Separate the 4 twisted wire pairs from each other, and then unwind each pair, so that you end up with 8 individual wires. Flatten the wires out as much as possible, since they'll need to be very straight for proper insertion into the connector.



Step 4 | Arrange wires

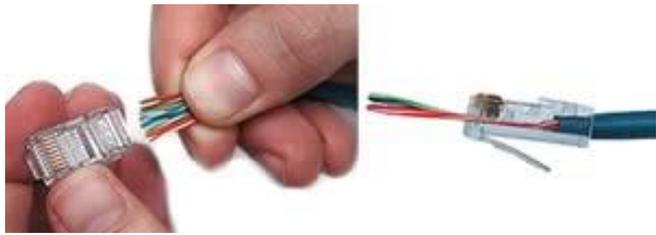
Hold the cable with the wire ends facing away from you. Moving from left to right, arrange the wires in a flat, side-by-side ribbon formation, placing them in the following order: white/orange, solid orange, white/green, solid blue, white/blue, solid green, white/brown, solid brown.



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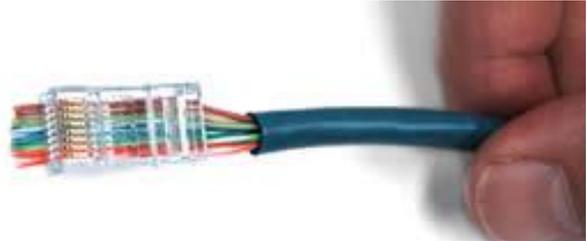
Step 5 | Insert wires

Holding the RJ45 connector so that its pins are facing away from you and the plug-clip side is facing down, carefully insert the flattened, arranged wires into the connector, pushing through until the wire ends emerge from the pins. For strength of connection, also push as much of the cable jacket as possible into the connector.



Step 6 | Confirm proper formation

Check to make sure that the wire ends coming out of the connector's pin side are in the correct order; if not, remove them from the connector, rearrange into proper formation, and re-insert. Remember, once the connector is crimped onto the cable, it's permanent. If you realize that a mistake has been made in wire order after termination, you'll have to cut the connector off and start over.



Step 7 | Crimp plug

Insert the prepared connector/cable assembly into the RJ45 slot in your crimping tool. Firmly squeeze the crimper's handles together until you can't go any further. Release the handles and repeat this step to ensure a proper crimp.



Step 8 | Repeat

After the first termination is complete, repeat process on the opposite end of your cable.



View online at <http://www.cableorganizer.com/learning-center/how-to/how-to-terminate-RJ45.htm>