

Deutsch plug connection guide



Deutsch connectors are a well-known waterproof power connector, with a very solid connection and reliability between 2, 4, and 6 cable connections.

In this guide we will show how to assemble the plug and socket for the 2 pin connector, as that is most common. You will find that the 4 and 6 versions have a very similar assembly.

To start with, you will notice:

- 2 green wedge connectors, one small and the other large,
- 4 metal crimp connections, 2 male pins, 2 female pins,
- 1 orange rubber grommet,
- 2 black casings, one long and the other short.

In assembly, the male pins go into the long case, with the short wedge, and the female pins go in the short case with the large wedge and orange grommet. Pictures below:

Firstly. Crimp or solder the wire connections onto the pins, making sure there is one of each type. You should end up with a pin with a positive wire, pin with a negative, female with positive, female with negative. You should remember that the short case will be considered the Deutsch PLUG, with female pin connections, and would be the detachable part of your setup (i.e. the light bar, compared to the socket with male pin connections on the car.) Give the entire manual a quick read-through before starting, in order to understand.

To first crimp the wires, use a proper crimp-tool to make the crimp point bite into the stripped wires placed into the pin. Below is the female pin to demonstrate. It is **important** to use a proper crimp tool, as pliers will "squeeze" the crimp point, rather than "bite" into the wires. The cable relief is designed to wrap around the wire and hold snugly onto the wire, and can be done with pliers.



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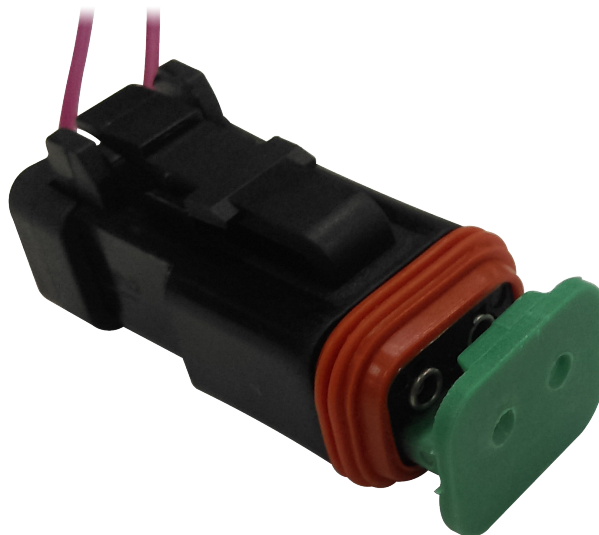
Once the pins are connected as you need, ensure that the result is flat and even with nothing protruding to snag onto anything going into the connector, and force the **female pins** through the rubber seal from the back of the **short black case**, as shown below.



(Don't mind our crimp job here, as this is just a demonstration.)

When we slide it into the connector, push it as far as possible until you hear a click and it appears to fit snugly in a groove. You should be able to see it from the front fit perfectly into the notches.

Once both of the female pins are in, you can fit the orange rubber grommet around the front of the plug, and slide the large green wedge with the face plate onto the front of the connector. This will tighten the pins against the case and clip everything together snugly. Once you get this on, you will not be able to remove it without destroying or scaring the plug.



From this, you will have a completed plug connection with female pins. Now onto the socket.

Similarly, you will want to use the male pin connectors, with an even crimp, and nothing to snag the connector, to be forced through the rubber seals on the long black socket casing.



The last remaining piece is the small wedge connector, which you can slide through the front of the connector with a pair of long-nosed pliers, ensuring that it is facing the correct way with the two notches on the green wedge facing upwards on the connector. Below is a picture to demonstrate the correct orientation.



Once it clips into place, the cables should then be firm and snug in the housing, and you now have your plug and socket connections.

We are sure you will be impressed with the quality of your Deutsch connectors.

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