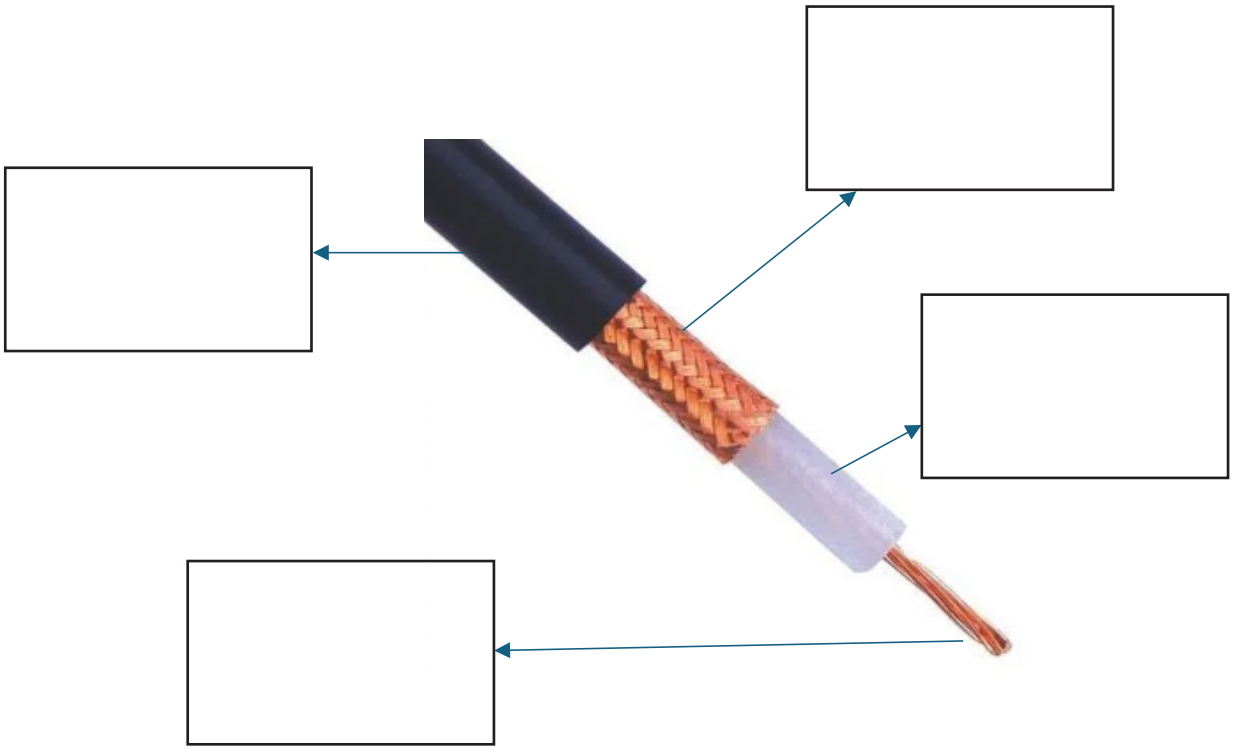
Lesson 9: Student's worksheet

Activity 1

Aim: Name the different parts of a coaxial cable.

Label the different parts of the coaxial cable shown below using the following words:

- outside insulating jacket,
- braided copper mesh,
- inside insulation, and
- thin conducting copper wire

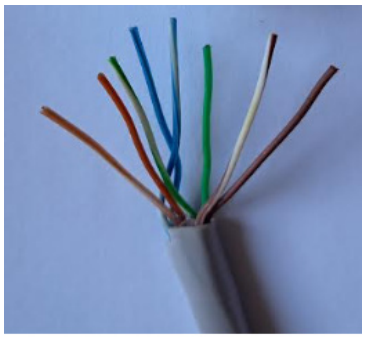


Activity 2

Aim: To successfully connect an RJ45 plug to an RJ45 cable for use in ethernet network.

Procedure:

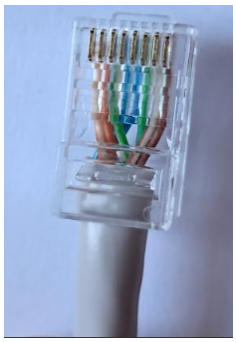
1. You are provided with an RJ 45 cable (approximately 30 cm in length) with one end already stripped, as shown in the picture below.

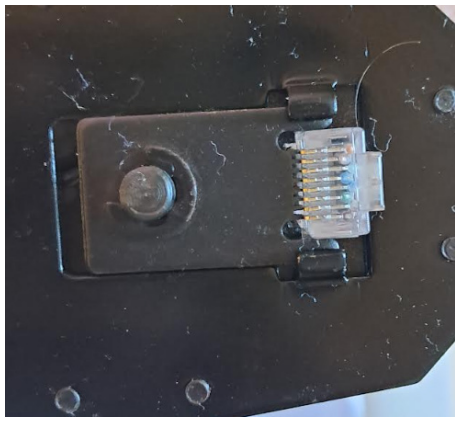


2. Arrange the coloured wires in the following order starting from your left: white-orange, orange, white-green, blue, white-blue, green, white-brown, brown.

3. Hold the RJ 45 plug with its clip pointing away from you as shown below.

4. Insert the eight coloured wires into the RJ 45 plug and ensure they are arranged in the correct order within the plug as shown below. Make sure that the tips of the wires make contact with the metal blades inside the RJ 45 plug.



5. Use a crimping tool to secure the RJ 45 cable and its wires within the RJ 45 plug as shown below.

Crimper for RJ 45