In-Person Lab - Create an ANSI/TIA-568B Straight-Through Ethernet Cable.

Introduction

Cables make the network's IP packets go around.

In this lab, you will experience working with copper twisted pair ethernet cables. You will create and test an ANSI/TIA-568B straight-through cable.

Note:

This lab refers you to external guides.

Objectives

In this lab, learners will be able to:

- Create an ANSI/TIA-568B straight-through Ethernet cable.
- Test an ANSI/TIA-568B straight-through Ethernet cable

Equipment/Requirements

- Learner Tech Kit.
- Learner laptops with internet connection.
- A cellphone with a camera.

Part 1: Create and test an ANSI/TIA-568B straight-through Ethernet cable.

a. *Set up your working environment. Ensure adequate lighting, and have your tools available.*

b. *Use the Make an Ethernet cable document to guide you through the cable-making process.*

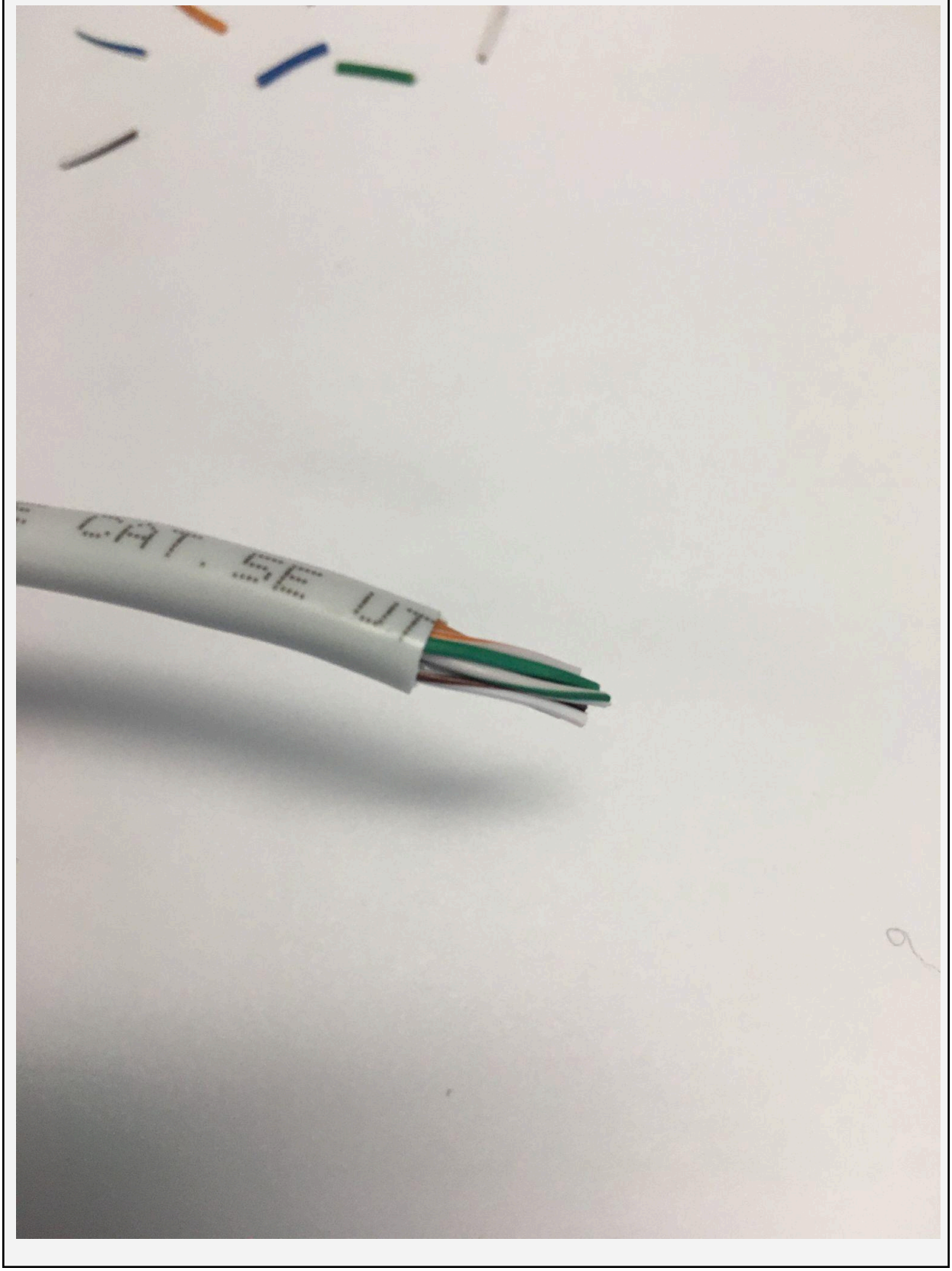
c. *Once you have a working ANSI/TIA-568B straight-through Ethernet cable, use your smartphone to take a picture of the cable, zooming in on the connectors if possible. Place the image in the box below.*

Here are the tools:

I clipped the Ethernet cable.

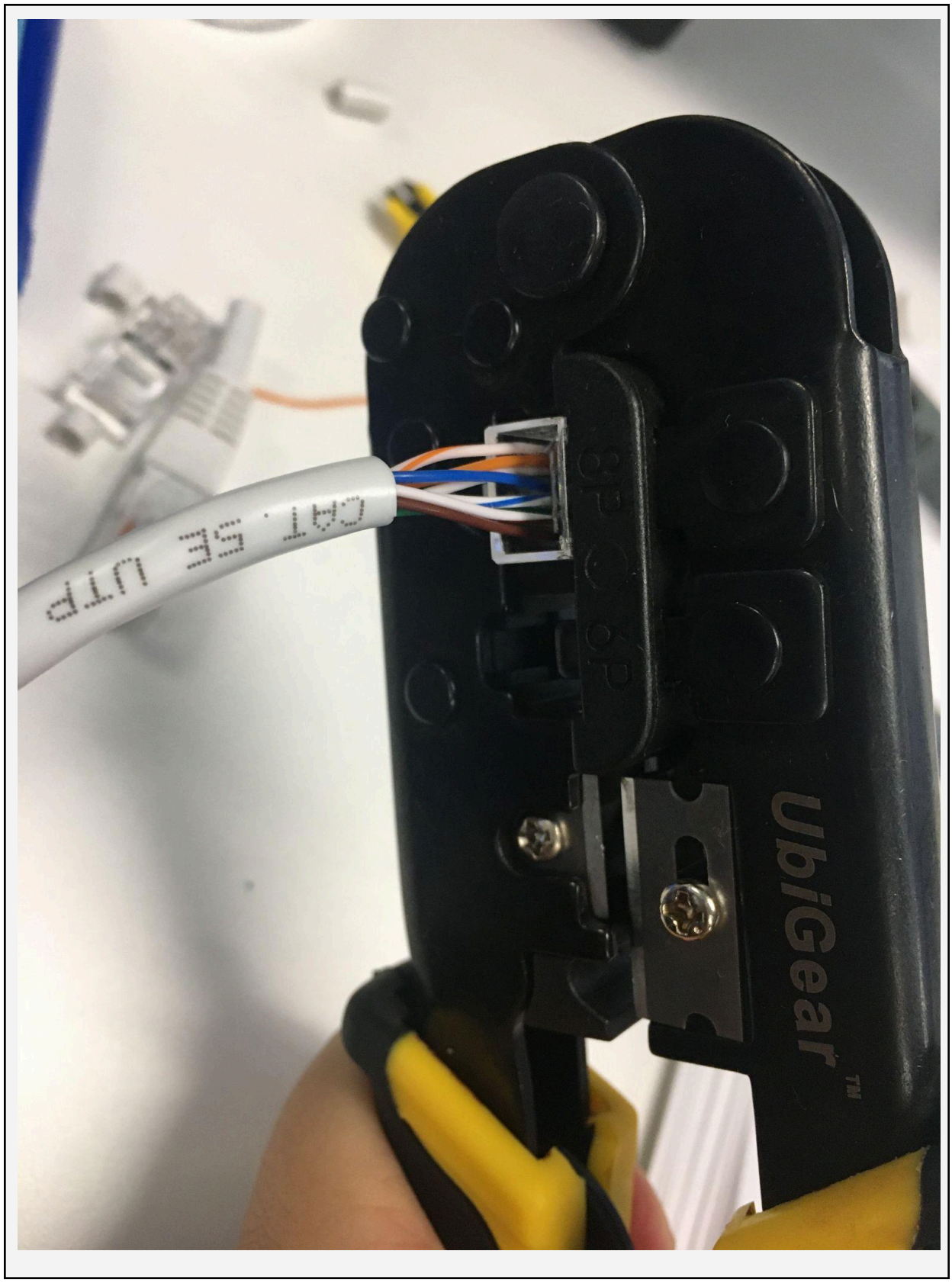
5501 MULTI-COND.
CABLE STRIPPER/CUTTER

E UTP


CAT. 6E UT

Then I arranged the wires in the correct order for TIA 568B: striped-orange, solid-orange, striped-green, solid-blue, striped-blue, solid-green, striped brown, and last, solid brown. Then I carefully threaded the wires into the Ethernet cable component.

Then I crimped the wires:


CAT. 5E UTP
UbiGear™

Then I tested the ethernet cable.

Part 2: Clear the workbench.

We hope you enjoyed this lab. The time to clean up has come.

a. *Gather all of the tools and personal belongings.*

b. *Ensure that your work area is tidy and clean.*