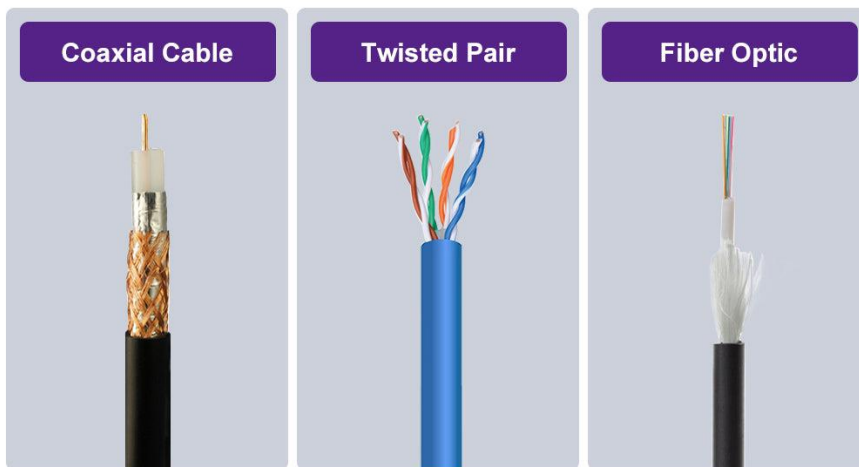


Lab2_CN

Familiarization with Transmission media and tools:

Co-axial cable, UTP cable, Crimping tool, Connectors etc.

Preparing the UTP cable for cross and direct connection using crimping tool.



Tools & Materials Needed:

- ✓ UTP Cable (Cat5e, Cat6, etc.)
- ✓ RJ45 Connectors
- ✓ Crimping Tool
- ✓ Cable Stripper
- ✓ Cable Tester (Optional but recommended)

1. Understanding Wiring Standards

There are two main wiring standards for Ethernet cables:

- **T568A**
- **T568B**

Straight-Through (Direct) Connection:

Used for connecting different types of devices (e.g., PC to Switch, Router to Switch).

T568B (Common Standard):

T568B (Other End):

mathematica

1. White-Orange
2. Orange
3. White-Green
4. Blue
5. White-Blue
6. Green
7. White-Brown
8. Brown

Crossover Connection:

Used for connecting similar devices (e.g., PC to PC, Switch to Switch).

T568A:

mathematica

1. White-Green
2. Green
3. White-Orange
4. Blue
5. White-Blue
6. Orange
7. White-Brown
8. Brown

T568B (Other End):

mathematica

1. White-Orange
2. Orange
3. White-Green
4. Blue
5. White-Blue
6. Green
7. White-Brown
8. Brown