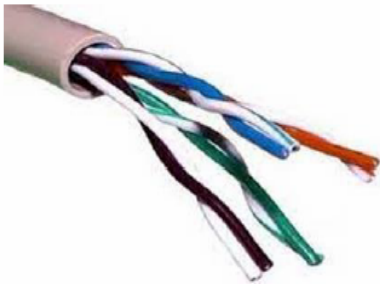


Experiment No 3 & 14: Practically implement the cross wired cable and the straight cable using the crimping tool

Materials Required:

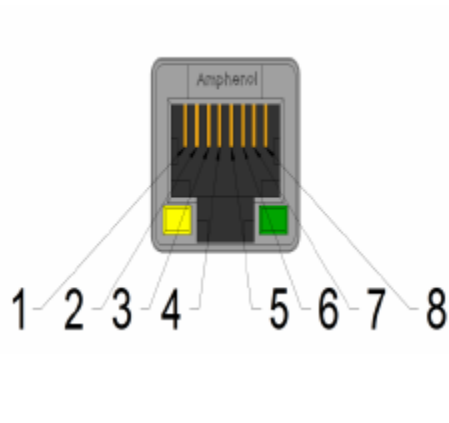
1. Cat cable
2. RJ-45 connectors
3. Crimping tool



Cat Cable

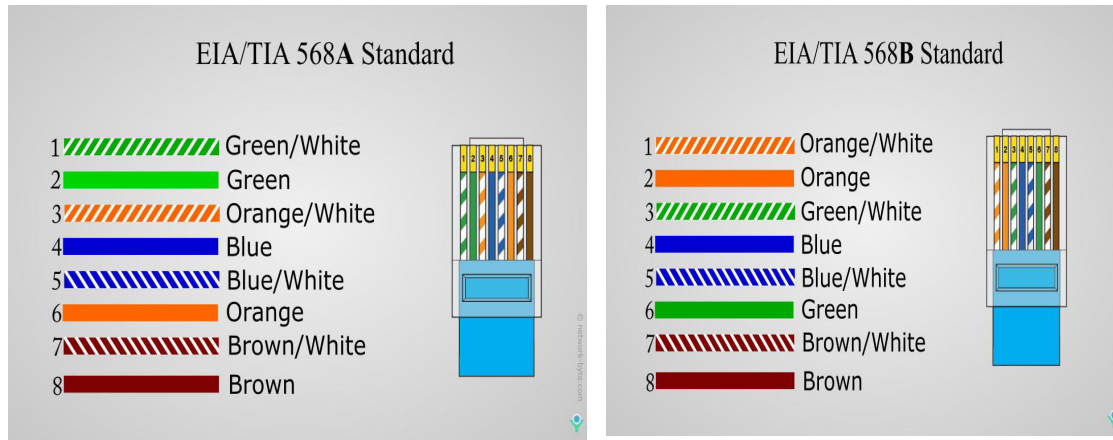


Registered Jack-45 Connector



- Each colored wire is twisted with white wire with a strip of same color on it.
- There are 4 twisted pairs with four different colored wires.
- Only Two pairs are used with cable numbers 1, 2, 3, and 6 for Tx and Rx signals.

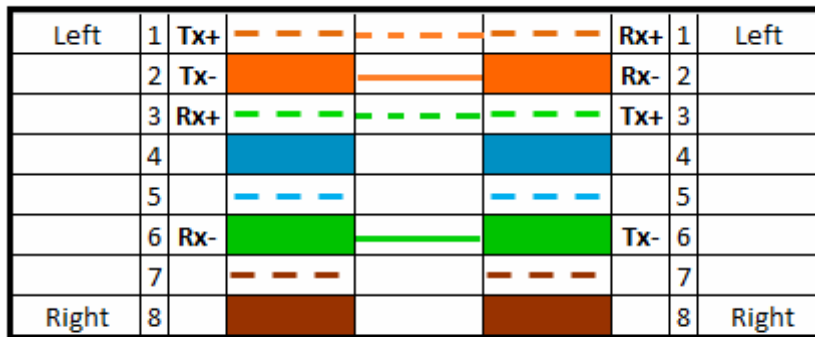
- As per EIA(Electronic Industries association) and TIA(Telecommunication Industry Association) there are two standard EIA/TIA-568-A and EIA/TIA-568-B.



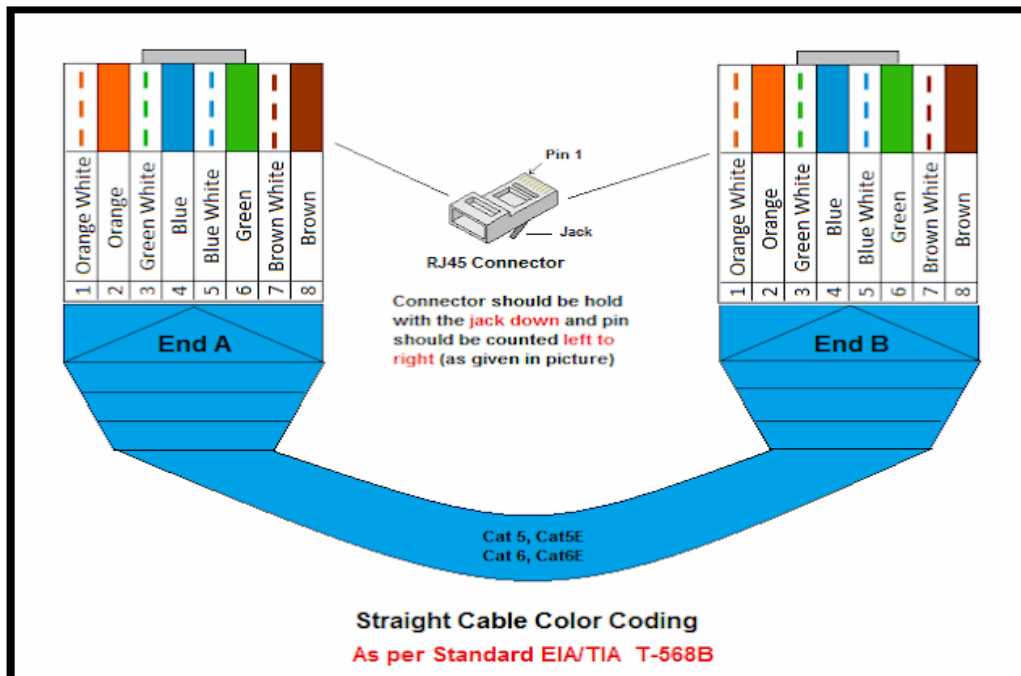
Straight Cable

Used to connect devices with different function.

- Connecting a router to a hub or switch.
- Connecting a server to a hub or switch.
- Connecting workstations to a hub.



Straight Cable



Cross Cable

Used to connect devices with same functions or roles

- Connecting uplinks between switches.
- Connecting PC to PC
- Connecting PC to a Router
- Connecting 2 routers together

