

Experiment-1

Title: - Study of RJ458 CAT6 calling & connection wing ournping tool.

Theory:

RJ45 D CATG calving are widely used in
networking to connect various divides such as computer
youter, switches and access point to weak LAN and
establish internet connectivity. The process of creating
these connection unvols the use of examping tool to
terminal the calle with RJ45 connector.

What is straight-Through Caphelton?

Straight - through Cable is a type of CATS with RJ-45 connection at each end, and each has the same per out It is in accordance with lither the same color code theroughout the LAN. For consistency. This type of twested - pair cable is used in LAN to connect a computer or a network hub such as a router. It is one of most common types of network cable

What is crossover compection?

The vossover ralle is a type of CATS where one and is T568A configuration and other end as T568B consiguration. In this type of



and Pin 2 is viossed with Pinb. The internal wiring of wassover cause reverses the fransmission and receive segnals. It is widely to connect two dwires of the pane type. eg two computer or two switches to each others.

RJ45 Connector (Registered Jack 45):

RJ45 is most common type of ethernet connector used for wired network connection. It is an 8P8C modular plug that can accomplate eight wire allowing for data transmission and communication. Inture network devices. The connector name indicates that it has eight position a eight contacts.

CATG Cable (category 6 cable)

cate is type of twested athernet scalle which means it consist of pair of copper wires twisted together to reduce interperence I crosswalk. It is an amprovement over it predices or CATSE, offering higher data transfer speeds and improved performance.

procedure of cooperement (crimping Process)

end.

2) Urtwest and straighten the wires inside of the cable



- 3) Arrange the wiris into jught worder. The proper Sequence is as follows from lift to right. Oring elwhite, Orange, your white, Blue, Blue, White, your, Brown / White, Brown
 - 4.) Cut the wires into wer line 1/2 inch [13mm] from Sheathing.
 - s. I theret the wires into the RJ45 connector. If any small wires and or dort fit into a groove correctly, take the case out and straighten the wires with your finger before trying again.
 - 6) Stick the comnector into the crimping part of the tool and squeeze twice.
 - 7. J Remove the calle from tool and check that all of pins are down.