## Experiment-1



CN-C32-2103164

Title: - Study of RJ458 CAT6 calling of connection using ournping tool

Theory: -

RJ45 & CATG cabling are widely used in networking to connect various durius such as computer gouter, switches and access point to weak LAN and establish internet connectivity. The process of creating these connection unvols the use of vumping tool to terminate the cable with RJ45 connector.

What is Straight-Through Caphellion?

Straight - through Calle is a type of CATS with RJ-45 connection at each end, and each has the same per out. It is in accordance with lether the same color code theroughout the LAW. For consistency. This type of twested - pair calle is used in LAW to connect a computer by a network half such as a router. It is one of most common types of network calle

What is crossover compection?

The crossover 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 to viossed with Pin 6. The internal wiring of wossower sown runners the transmission and receive signals. It is widely to connect two during of the pame trype. eg two computer or two switches to each others.

RJ45 Connector (Registered Jack 45):-

RJ45 is most common type of ethernet connectors used for wired network connection. It is an 8P8C modular plug that can accomplate eight were 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 enterference 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.

surtwist and straighten the wires inside of the cable



- 3) Arrange the wires into jught border. The proper Sequence is as follows from lift to right. Dring elwhite, Orange, Grun J white, Blue, Blue J white your, Brown / White, Brown
- prom Sheathing.
- any small wires unto the RJ45 connector. If any small wires and sor dark fit into a groom correctly, take the cause out and straighter the wires with your finger before trying again.
- 6 ) Stick the connector into the erimping part of the tool and squeeze twice.
- 7-] Remove the calle from tool and check that all of pins are down.