

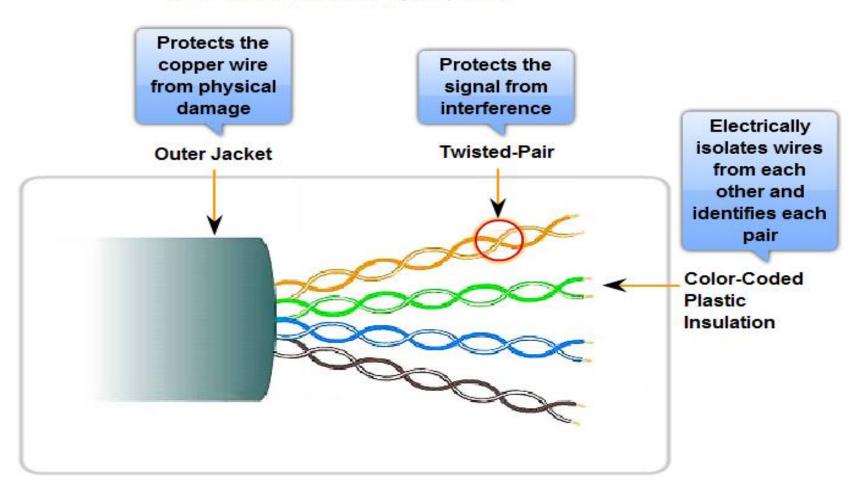
LAN Cabling



Implementing UTP

Unshielded Twisted Pair (Pair)

Unshielded Twisted-Pair (UTP) Cable



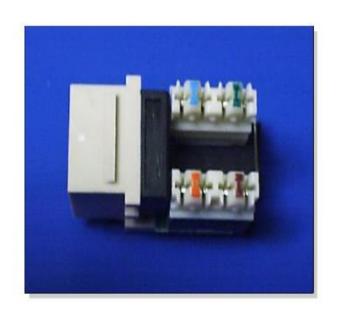
RJ-45 Connector



RJ-45 Jack



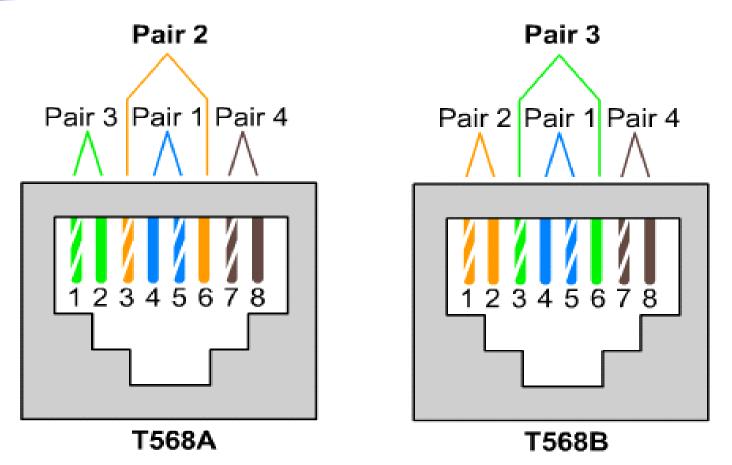
Front View



Top down View



T568A and T568B Color Code

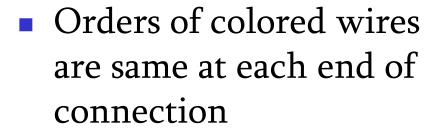


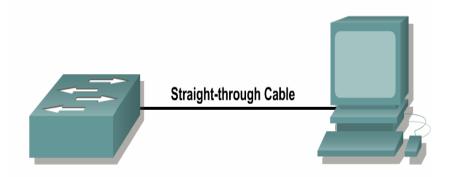
Cabling Instruction

- Determine the EIA/TIA category of cable
 - Use the documentation of the device
 - Look for a label on the device near the jack.
 - Otherwise use Category 5E or greater
- Determine the type of Connection
 - Straight Through
 - Crossover
- Make proper connection following color code (TIA568A or TIA568B)

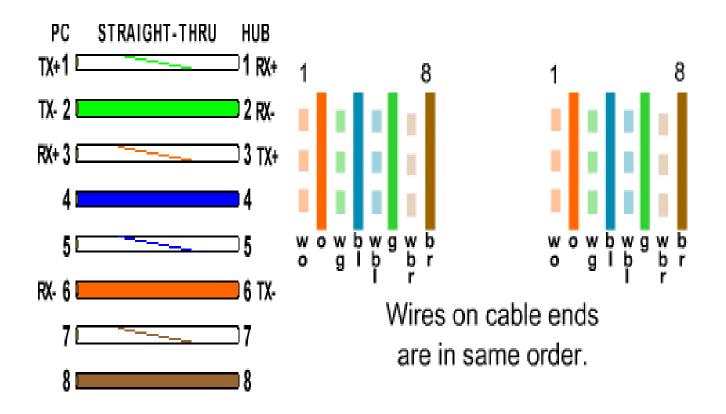


- Connects different layer devices
 - Switch to router
 - Switch to PC or server
 - Hub to PC or server



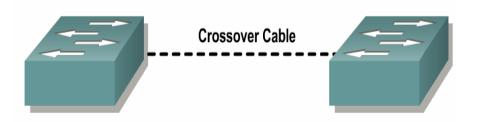


Straight-through Cable

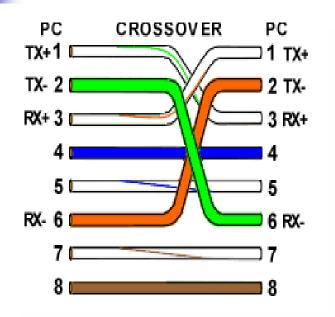


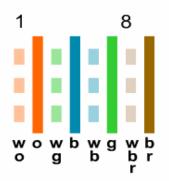


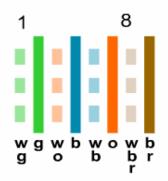
- Connects Similar Devices
 - Switch to switch
 - Switch to hub
 - Hub to hub
 - Router to router
 - PC to PC
 - Router to PC



Crossover Cable

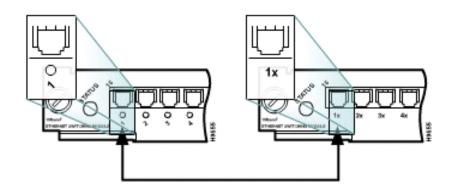




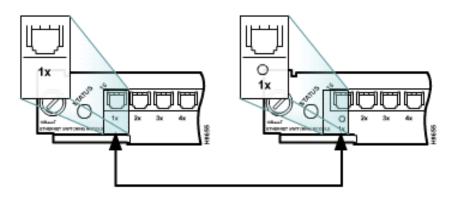


The orange wire pair and the green wire pair switch places on one end of the cable.

Connecting Cisco Devices



Use straight-through when only one port is designated with an "x".



Use crossover cable when BOTH ports are designated with an "x"or neither port is designated with an "x".

Interconnecting Devices

