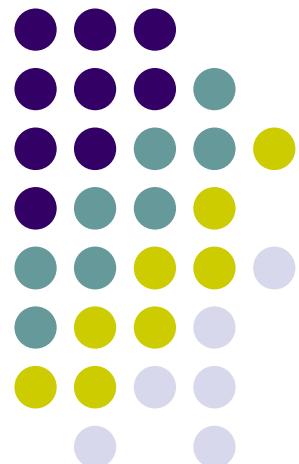


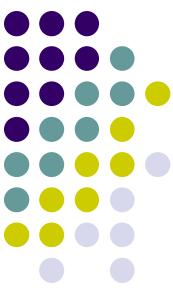
# Network Cabling

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Making connections with Cat5

Way cool!





# Cat5e cable

- 1000Mbps data capacity
- For runs of up to 90 meters
- Solid core cable ideal for structural installations (PVC )
- Terminated with RJ-45 connectors

# RJ45 connector

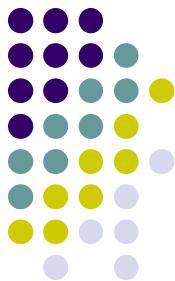




# Making connections - Tools

- Cat5e cable
- RJ45 connectors
- Cable stripper
- Scissors
- Crimping tool



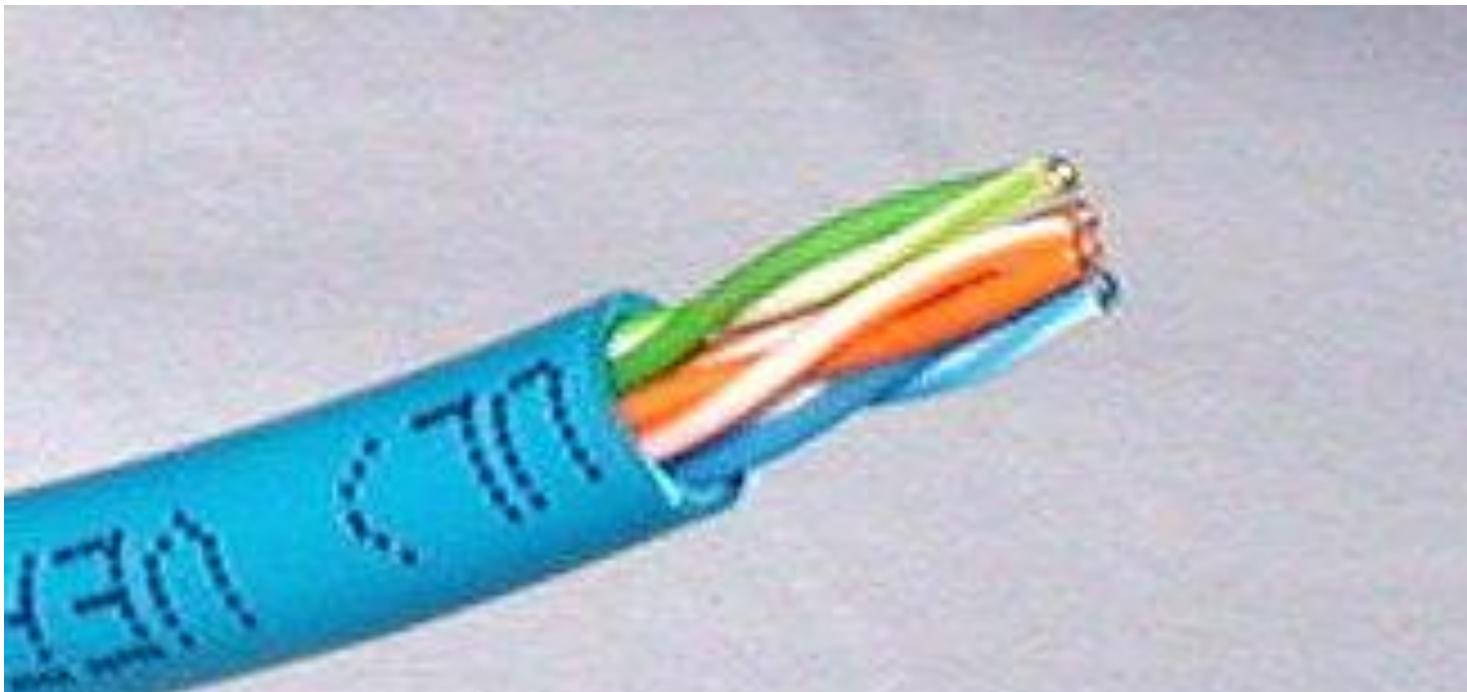


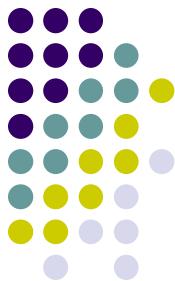
# Making connections - Steps

1. Strip cable end
2. Untwist wire ends
3. Arrange wires
4. Trim wires to size
5. Attach connector
6. Check
7. Crimp
8. Test

# Step 1 – Strip cable end

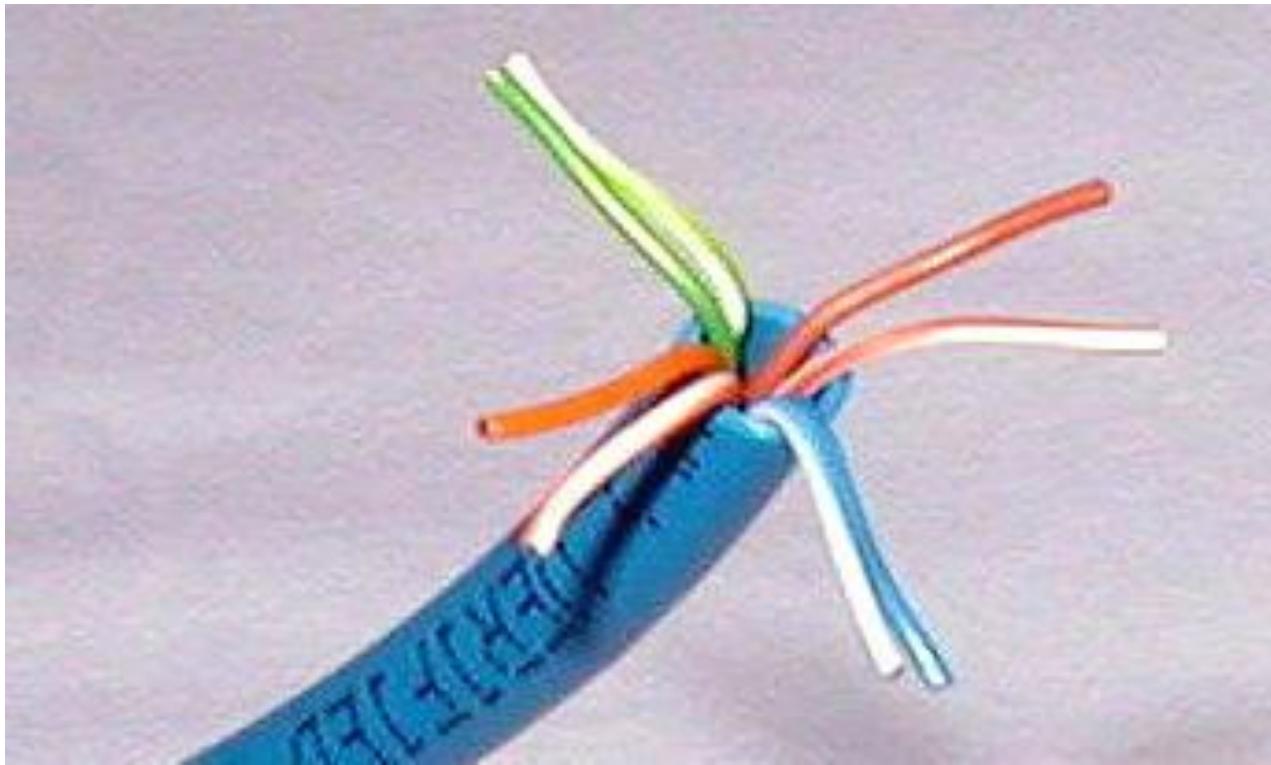
- Strip 1 – 1½" of insulating sheath
- Avoid cutting into conductor insulation

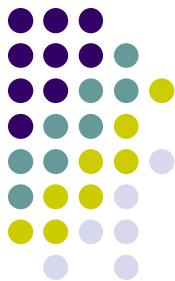




## Step 2 – Untwist wire ends

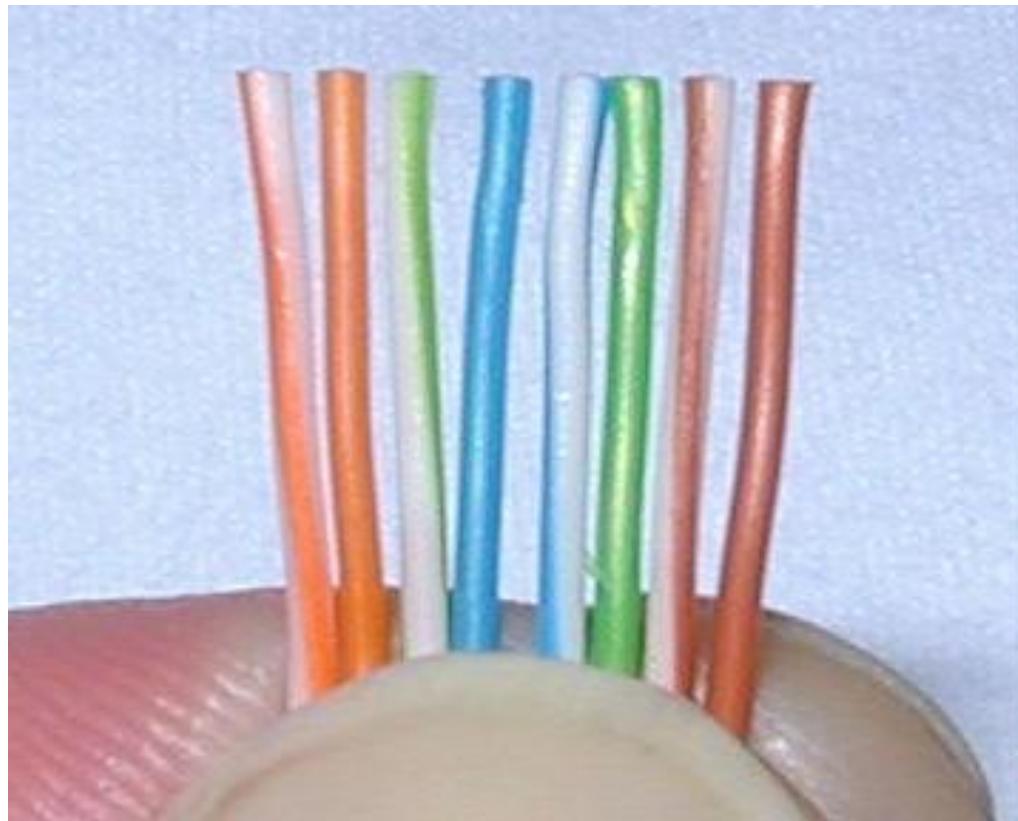
- Sort wires by insulation colors





## Step 3 – Arrange wires

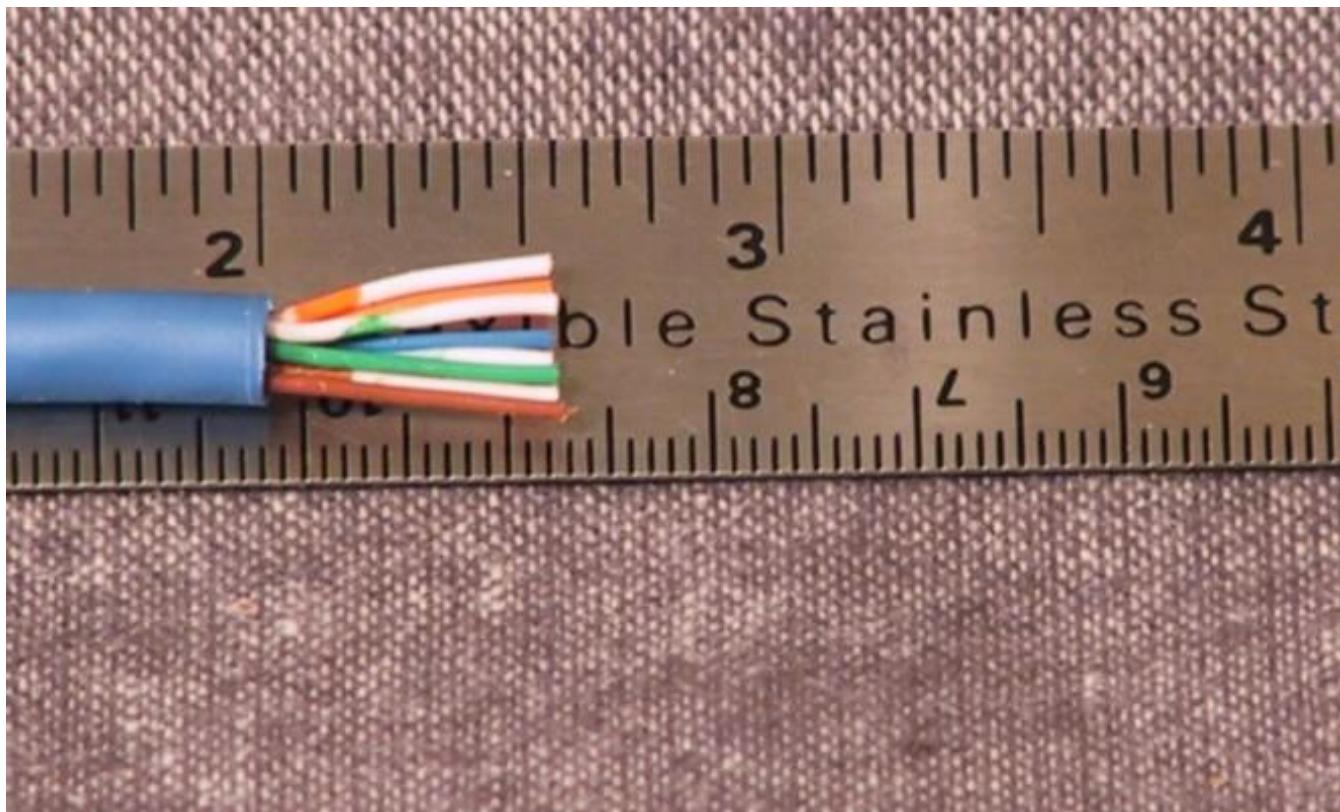
- TIA/EIA 568A: GW-G OW-BI BIW-O BrW-Br
- TIA/EIA 568B: OW-O GW-BI BIW-G BrW-Br



# Step 4 – Trim wires to size



- Trim all wires evenly
- Leave about  $\frac{1}{2}$ " of wires exposed



# Step 5 – Attach connector

- Maintain wire order, left-to-right, with RJ45 tab facing downward



# Step 6 - Check



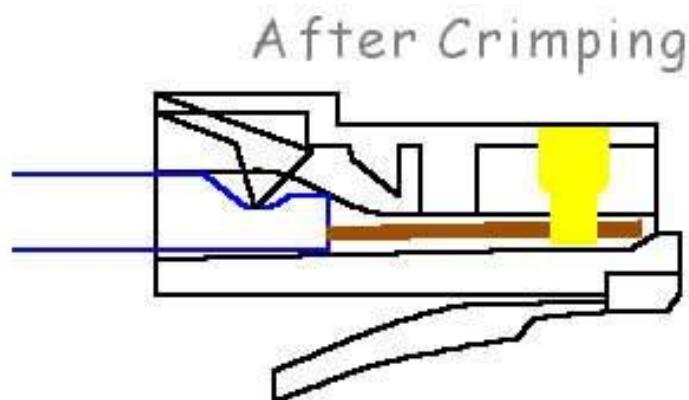
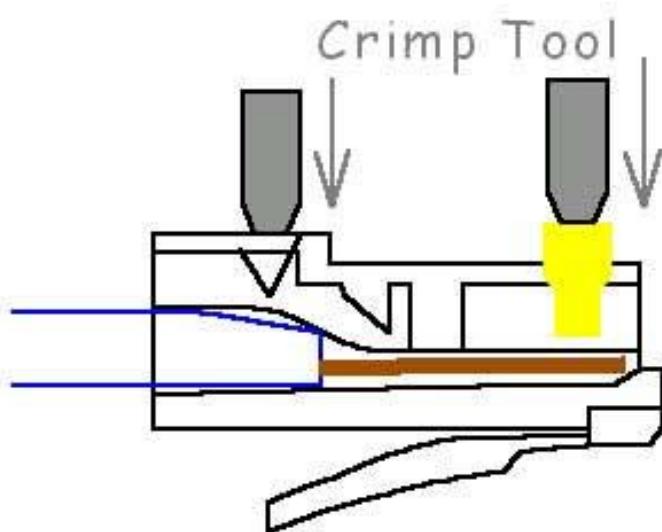
- Do all wires extend to end?
- Is sheath well inside connector?



# Step 7 - Crimp

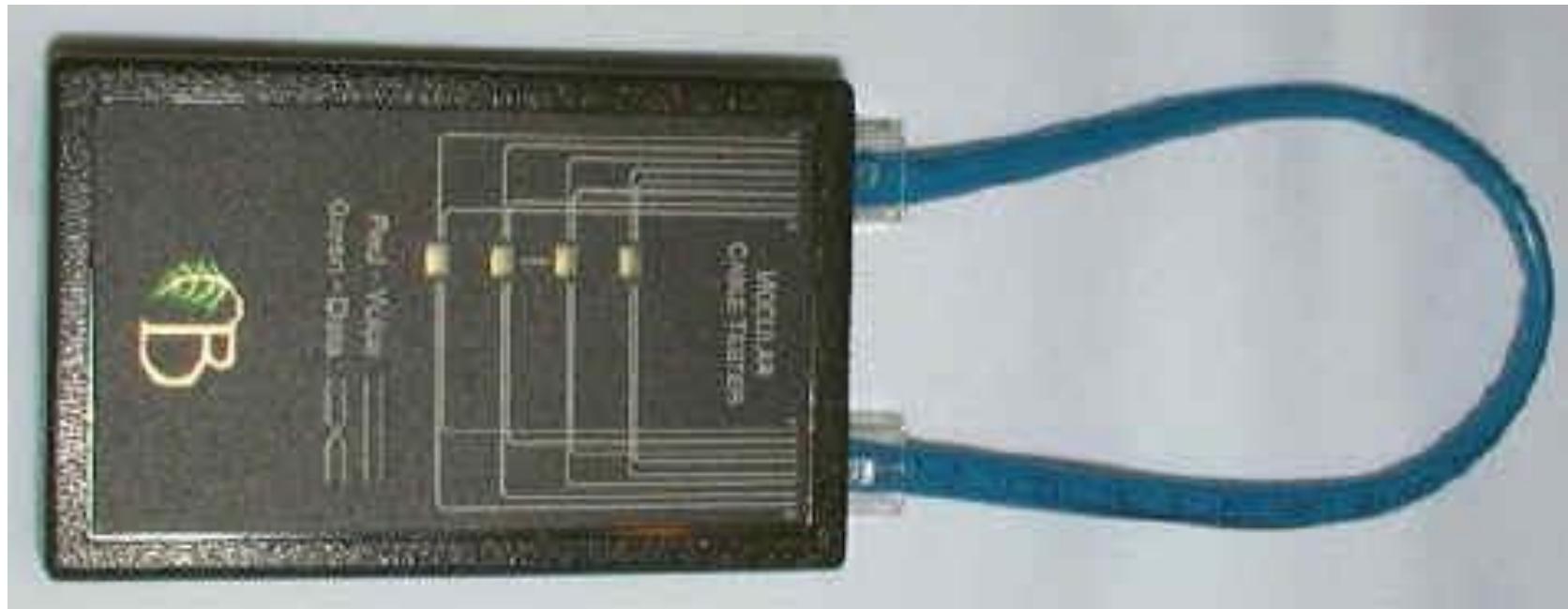


- Squeeze firmly to crimp connector onto cable end (8P)

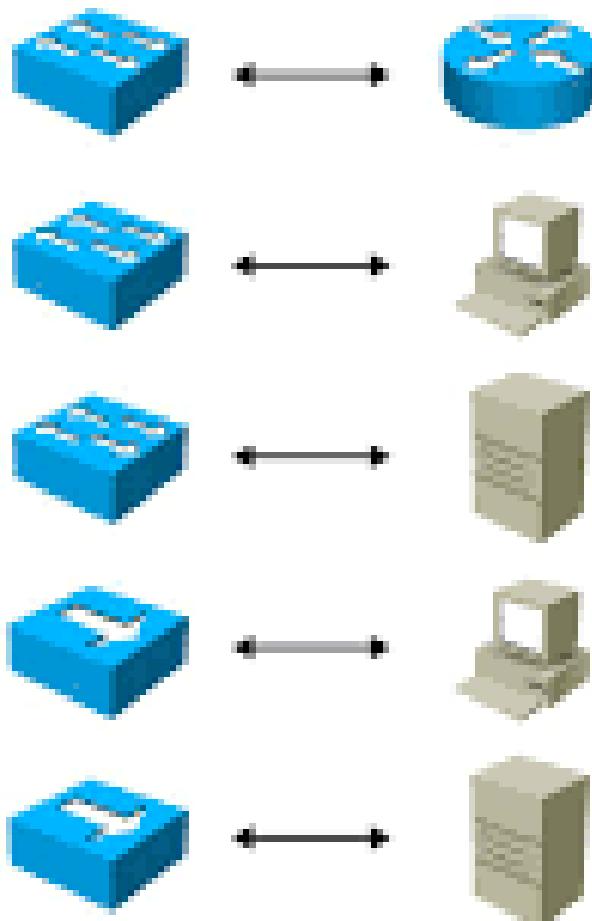


# Step 8 – Test

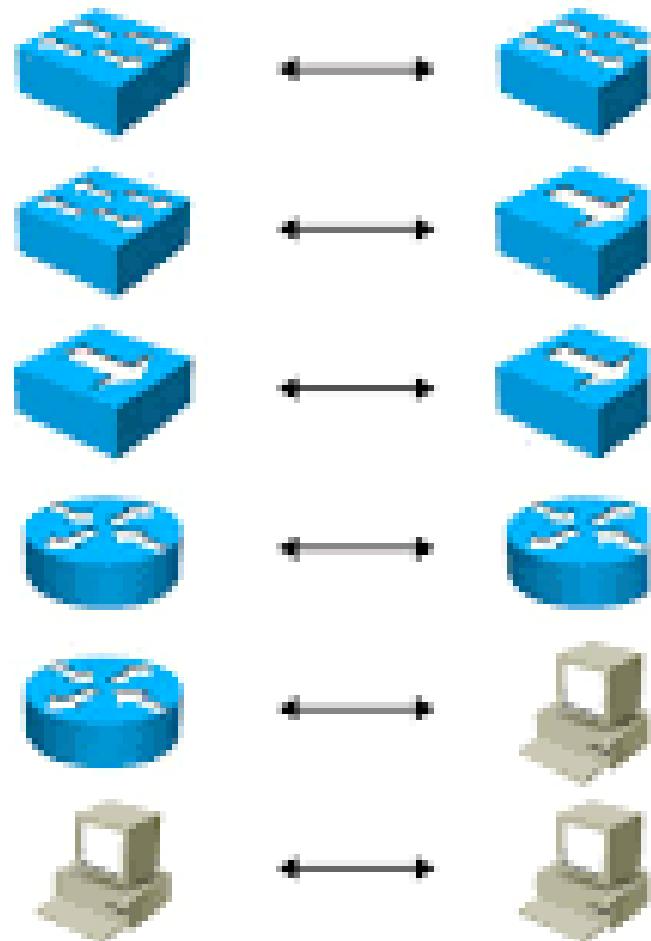
- Does the cable work?



## Straight-Through Cable



## Crossover Cable

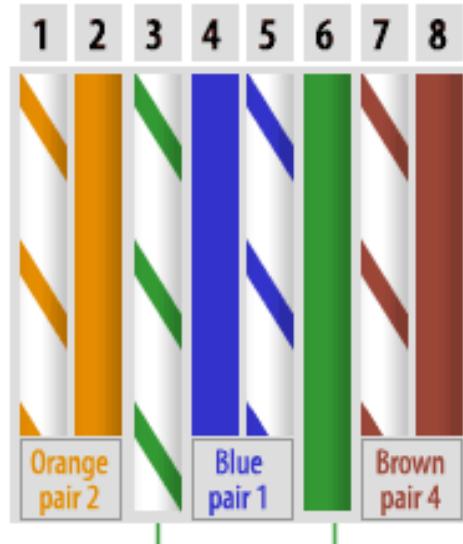




**568B Connector**



Crossover  
Cable Pinout



**568A Connector**



Orange Pair 2



# Let's go to work!

