



## Department of Computer Science and Engineering

Faculty of Engineering, University of Moratuwa

### CS 3032 – Computer Network

B. Sc. Engineering Semester 4

Student Name .....  
Index No ..... Field CSE  
Group ..... Date .....

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### Lab 01 – Orientation

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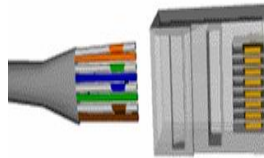
#### Objective

- Identification of equipment
- Identification KVM switch operation
- Identification Patch panel and cabling

#### Procedure

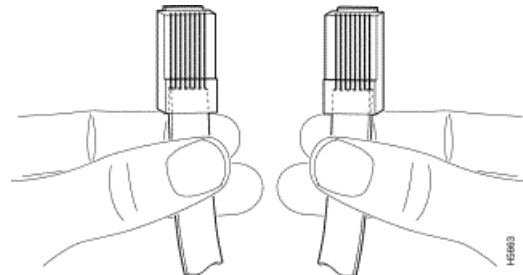
Identify RJ45 (used with UTP CAT5 cables) pin configurations for straight through and crossover cables.

#### Identifying cables used in communication



What are the three types of commonly used RJ45 cabling?

- 1.
- 2.
- 3.



How you differentiate those cables by just observing the RJ45 male connector?

.....  
.....  
.....

What are the active wires used in communication?

Pin 1		Pin 5	
Pin 2		Pin 6	
Pin 3		Pin 7	
Pin 4		Pin 8	

Identify the pairs used as:

TX :

Rx :

How does the wiring sequence changes for crossover cables?

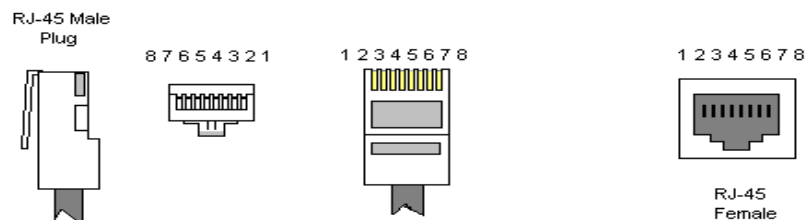
#### Standard end

Pin 1  
Pin 2  
Pin 3  
Pin 4  
Pin 5  
Pin 6  
Pin 7  
Pin 8

#### Crossover end

Pin 1  
Pin 2  
Pin 3  
Pin 4  
Pin 5  
Pin 6  
Pin 7  
Pin 8

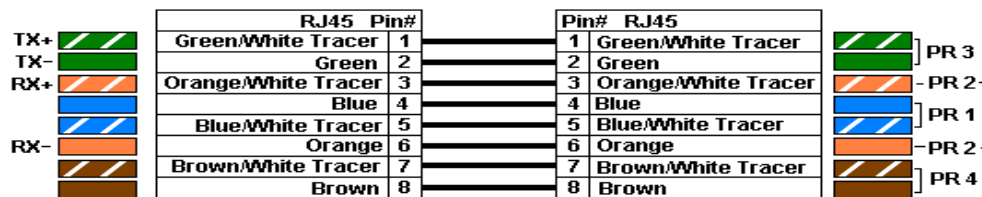
**Note:**



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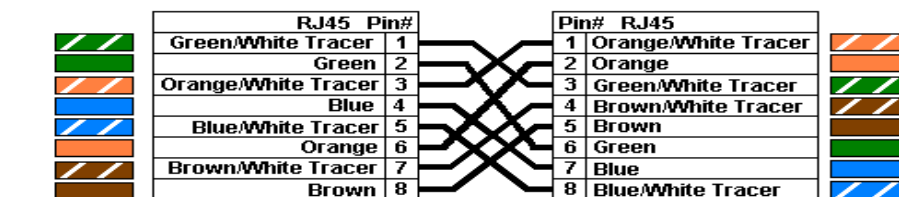
#### Color Standard EIA/TIA T568A

#### Ethernet Patch Cable



#### Color Standard EIA/TIA T568A

#### Ethernet Crossover Cable



"A," is earlier