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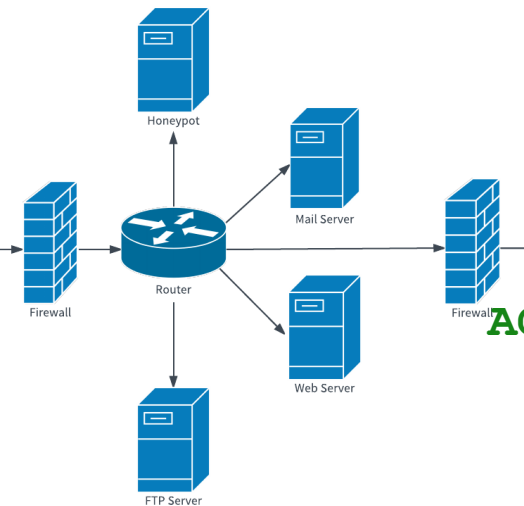
Cover designed by: Mr. Medel Valencia

**MODULE**

# **Introduction to Networking**

**NET 212**

**ACADEMIC YEAR 2024-2025**



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**Instructor**

## MODULE IN (COURSE)

**Credits** : 2 units' lecture (2 hours/week), 1-unit laboratory (3 hours/week)  
**Pre-Requisite** :

### Lesson Title: Types of Connectors

#### Lesson Objective:

At the end of the module, the learners will be able to:

1. Student learn what are the types of connectors used in different cables.
2. Student differentiate these types of connectors.

#### References:

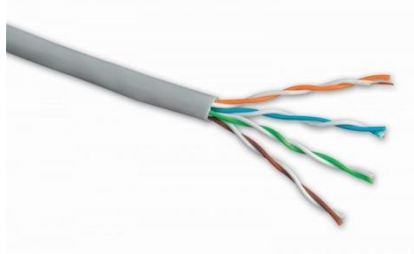
PowerCert Animated Videos. (2020, August 2). *Network Connectors Explained*. YouTube.  
<https://www.youtube.com/watch?v=ktTtAQIvYkg&t=231s>

#### Lectures and Annotations:

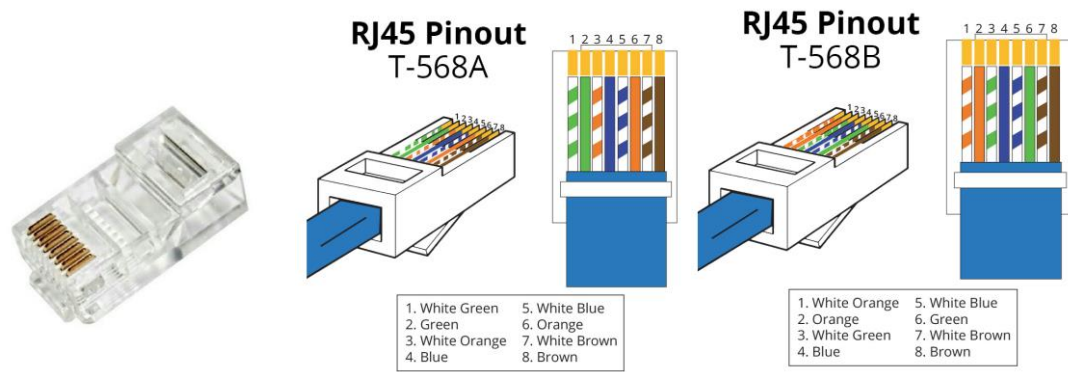
##### *Types of Networking Connectors*

There are types of connectors that are used in networking. The connectors will vary depending upon the type of network and cable that they are attached to.

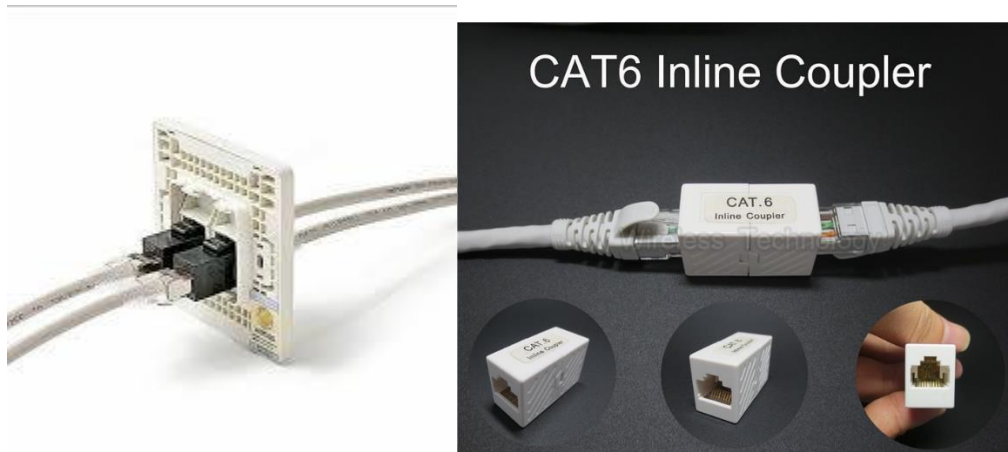
##### Connectors for Unshielded Twisted Cable (UTP)



- **RJ45** – The most common network connector that used in networking with 8 pin modular connector and used to connect computers and networking devices in a local Area Network.



- UTP Coupler – Used to connect UTP network cables.



[utp coupler with cable - Google Search](#)

Connectors for Shielded Twisted Pair (UTP)



[Network Connectors Explained - YouTube](#)

- RJ48 – Looks similar to the RJ45, used with shielded twisted pair cable



[ry48 - Google Search](#)

Connectors for Telephone/DSL



[telephone cable - Google Search](#)

- RJ11 – 4 Wire connectors mainly used to connect telephone equipment.



[ry11 - Google Search](#)

Connectors for Coaxial Cable



[coaxial cable - Google Search](#)

- **BNC (bayonet neill–concelman) Connector** – Radio Frequency connector used on coaxial cable. Used for analog and digital video transmissions as well as audio.



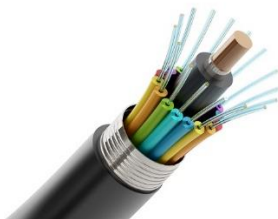
[bnc connector - Google Search](#)

- **F type Connector** – Threaded connector typically used on coaxial cables. Primarily used by cable providers to attach to cable modems.



[f type coaxial - Google Search](#)

## Connectors for Fiber Optic Cable



[fiber optic - Google Search](#)

- **Square Connector (SC) Connector** – Called standard connector or square connector. This connector uses a push-pull connector similar to audio and video plugs.



[sc connector fiber - Google Search](#)

- **Mechanical Register Transfer Jack (MTRJ) Connector** – Fiber optic connector that uses a latched pull-pull connection. It has a small form factor used for high packed density and it will design to replace the SC connector. Uses 2 fibers in a single design.



[mtrj connector - Google Search](#)

- **Lucent Connector (LC)** – Design to compete the SC connector, half size of SC connector which makes it better with highly populated racks and panel. Locks with a latch similar to RJ 45.



[local and sc connector - Google Search](#)



- **Straight Strip (SC) Connector** – Fiber optic cable that uses a half twist bayonet type of lock. Commonly used in single mode fiber optic cable. This is large size connector that was develop by AT&T. Because of its large size, its usage has declined in favor of smaller connectors.



[st connector - Google Search](#)

- **Fiber Coupler** - Joins or couples 2 fiber optic connectors together, the 2 connectors have to be the same type.



[fiber coupler - Google Search](#)

Other Connectors:

- USB Connectors



[usb wifi adapter - Google Search](#) and [usb ethernet adapter - Google Search](#)

## **I. Activities:**

### **A. Academic**

Quiz 1: (*Mode of Quiz via google forms*)

Video presentation-Groupings. Each group consists of minimum 5 members only.

Discuss the following.

1. Guided Media
2. Twisted Pair cable (unshielded twisted pair cable & shielded twisted pair cable).
3. Differentiate UTP & STP.
4. Coaxial Cable.
5. Fiber Optic Cable.
6. Deirrentiate Coaxial Cable, Fiber Optic Cable, and Twisted Cable.

### **B. Life Activity will be uploaded on gclassroom**

## **II. Assessment**

Academic Activity:

Quiz 1	–	15pts
Video Presentation	-	25pts

Life Activity: - 10pts

1. Quizzes shall be 20% of class standing.
2. Data Model to be graded based on the following criteria:

Understandable	-	40%
Explanation	-	30%
Presentation	-	30%
Total	-	100%

3. Life Activity to be graded based on the following criteria:

Presentation	-	20%
Lesson Applied	-	20%
Values/Skilled learned	-	50%
Punctuality	-	10%



Total - 100%

### **References**

Computer Hope. (2019, April 2). Computer Networking History.

<https://www.computerhope.com/history/network.htm>

What Is Computer Networking? (2021, February 3). Cisco.

<https://www.cisco.com/c/en/us/solutions/enterprise-networks/what-is-computer-networking.html>