

# COMPUTER NETWORKING CHEAT SHEET

Layer	THE OSI MODEL Description	Device	Implementations and Protocols
Application (7)	Provides services directly to user applications. Identifies communication partners, identifies quality of service, considers user authentication and privacy, and determines if adequate resources are present.	Gateway	SMB, HTTP, SMTP, FTP, SNMP, Telnet, AppleTalk
Presentation (6)	Performs data transformations and services including formatting, compression, and encryption services to provide a common interface for user applications.	Gateway and Redirectors	HTTP, FTP, Telnet, SMTP, AFP, TDI
Session (5)	Establishes, manages and terminates connections between applications at each end. Allows 2 applications to communicate over a network by opening a session and synchronizing the involved computers.	Gateway	NetBEUI, TCP, UDP, SPX
Transport (4)	Provides transparent transfer of data between end systems by insulating layers 5-7 from complexities of layers 1-3. Responsible for end-to-end error recovery and flow control and ensures complete data transfer.	Gateway	IP, SPX, NWLink, NetBEUI
Network (3)	Establishes, maintains, and terminates network connections. Handles traffic management including addressing, routing, switching, forwarding, logical paths and virtual circuits, error handling, congestion control, and packet sequencing.	Router and Switch	IP, SPX, NWLink, NetBEUI
Data Link (2)	Divided into two sub-layers: The Media Access Control (MAC) sub-layer controls how a networked computer gains access to the data and permission to transmit it. The Logical Link Control (LLC) sub-layer controls frame synchronization, flow control and error checking.	Switch, Bridge and Router	Ethernet, PPP, HFC
Physical (1)	Controls transmission of the bit stream data over the physical medium. Standards for this layer address transmission at the electrical and mechanical level, including signal, voltage swing, voltage duration, etc.	Multiplexer and Repeater	Ethernet, Token Ring, FDDI

Type 10BaseT (Copper)

Normal RJ-45, RJ-11, RJ-12, RJ-14, RJ-48  
Special RJ-45  
Connector: RJ-45  
Max Length: 100 meters  
(328 ft.)

Type 10Base2 (Coaxial)

Normal: BNC  
Special: F-pin  
Connector: BNC  
Max Length: 185 meters (607 ft.)

**CABLE TYPES**  
Coaxial Cable

The 10Base2 Mhz stated that a 10Base2 network can have 3 cable segments connected with 1 repeaters but only 20 m of segments can be occupied by components such as switches, hubs, and repeaters. The maximum length of coaxial cables are 185 meters which have a low error probability. Twisted pair cables have 0.2 inches thick and have a 100 m transmission range.

Thickness of cables used as backbone. As transmission with a repeater has a maximum range of 100 m, the total path is 200 m in a great distance.

Type 10BaseT (Twisted Pair)

Normal: Cat 3, 5, 5e, 6, 7  
Special: 1000BaseT  
Connector: RJ-45  
Max Length: 100 meters  
(328 ft.)

Type 100BaseT (Twisted Pair)

Normal: Cat 5, Twisted Pair  
Special: 1000BaseT  
Connector: RJ-45  
Max Length: 100 meters (328 ft.)

**CABLE TYPES**  
Twisted-Pair Cables

Normal Twisted Pair (UTP) differs from Unshielded Twisted Pair (UTP) in that it has a foil jacket that helps prevent crosstalk. Crosstalk in interference occurs as adjacent wire. Plenum grade cabling is required when running cables in plenum spaces. The plenum is the space between isolating floors that is used for air circulation in heating and air conditioning systems. Typically between the structural ceiling and the suspended ceiling or under a raised floor. Plenum grade cables is resistant to fire and does not emit noxious gasses when burned.

Type 100BaseF (Fiber Optic)

Normal: Fiber Optic  
Special: 1000BaseF  
Connector: Fiber Optic  
Max Length: 2 kilometers (6,562 ft.)



Fiber-Optic cabling has high security, unlike other cable mediums, the dielectric nature of optical fiber makes it impossible to intercept data as the signal being transmitted within the cable. The only way to detect their signal is by intercepting the optical fiber itself which is easily detectable by security surveillance.

## NETWORK TOPOLOGIES



# Computer Networking Cheat Sheet

**Doug Lowe**

## **Computer Networking Cheat Sheet:**

Reviewing **Computer Networking Cheat Sheet**: Unlocking the Spellbinding Force of Linguistics

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