Appendices

Appendix A- **Physical-Layer Media Specifications**

Specifications	**10Base5**	**10Base2**	**10Base-T**	**100Base-TX (Fast Ethernet)**	**1000Base-TX (Gigabit Ethernet)**	**FDDI**
Cable Type	Thick coaxial cable	Thin coaxial cable	Twisted-pair	Twisted-pair (two pairs)	Twisted-pair (four pairs)	Fiber optic
Cable Impedance	50 ohms	50 ohms	85-110 ohms	85-110 ohms	85-110 ohms	-
Signaling techniques	Baseband (Manchester)	Baseband (Manchester)	Baseband (Manchester)	Baseband (Manchester)	Baseband (Manchester)	Baseband
Data Rate	10 Mbps	10 Mbps	10 Mbps	100 Mbps	1000 Mbps	1000 Mbps
Maximum cable segment length	500 m	185 m	100 m	100 m	100 m	~ 2 km
Maximum network length	2500 m	925 m	2500 m	2500 m	2500 m	10 km
Attachments per segment	100	30 (29 with a repeater)	1	1	1	-
Attachments spacing	2.5 m	0.5 m				-
Connector type	DB-15 connector	BNC	RJ 45 (8 pin)	RJ 45 (8 pin)	RJ 45 (8 pin)	MIC, ST
Topology	Linear Bus	Linear Bus	Star-wired bus	Star-wired bus	Star-wired bus	Ring
Maximum number of stations per network	1024	1024	1024	1024	1024	1000