

# Appendices

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

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