

## CABLES FOR EACH NETWORK

Voice-grade UTP

Data-grade UTP (IBM Types 3 and 4)

STP (IBM Type 1)

RG-62 (coaxial cable)

Thicknet coaxial cable

Thinnet coaxial cable

Fiber-optic cable

TWISTED-PAIR (IBM specification)

Specification

Shielded or unshielded

Gauge

Number of pairs

Data rate (Mbps)

Attenuation (dB/km.)

Near-end crosstalk (dB)

Characteristic impedance (ohms)

\* Type 2 also includes 4 pairs of voice-grade lines; specifications are given for data

N/A Not applicable: The specification does not detail this characteristic.

COAXIAL CABLE

Specification

Type

Gauge

Data rate (Mbps/sec)

Attenuation (dB/1,000 ft.)

Characteristic impedance (ohms)

FIBER-OPTIC (IBM/FDDI specification)

Specification (for 62.5-/125-micron cable)

Attenuation (dB/km.)

ARCnet

y

y

n

y

n

n

y

Ethernet

n

y

n

n

y

y

y

Type 1

Shielded

22 solid

Type 2

Shielded

22 solid

22\*

16

45

-40

150

16

45

-40

150

ta lines only.

RG-58/U

Commonly used for  
thinnet

20 solid or stranded

10Base5

Ethernet trunk cable  
(thicknet)

2.17-mm. solid

10

14

10

5.18

50-53

50

850 nm.

1,300 nm.

3.75

1.5

Token-Ring

n

y

y

n

n

n

y

FDDI

n

n

n

n

n

n

y

Type 3

Unshielded

22-24 solid

Type 6

Shielded

26 stranded

4

2

1

16

8

66

N/A

-34

84-113

150

10Base2

Ethernet trunk cable

(thinnet)

0.89-mm. solid

10

14

50

Type 9  
Shielded  
26 solid or stranded

2  
16  
66  
-34  
150