

Applications

Copper

Applications Support Matrix

	Category 3	Category 5e	Category 6	Category 6A	Category 7 ¹
Voice	■	■	■	■	■
T1 Fractional	■	■	■	■	■
IBM Type 3 - 1 Mbps	■	■	■	■	■
4/16 Mbps Token Ring	■	■	■	■	■
10BASE-T Ethernet	■	■	■	■	■
100BASE-T4 Fast Ethernet	■	■	■	■	■
25.6 Mbps ATM	■	■	■	■	■
100 VG - Any LAN	■	■	■	■	■
All other applications developed to operate over Category 3 or class C cabling	■	■	■	■	■
100 Mbps TP-PMD		■	■	■	■
155 Mbps ATM		■	■	■	■
270 Mbps digital video		■	■	■	■
Broadband video		■	■	■	■
100BASE-TX Fast Ethernet		■	■	■	■
1000BASE-T Gigabit Ethernet		■	■	■	■
All other applications developed to operate over Category 5e or class D cabling		■	■	■	■
1000 Mbps ATM (CBIG)			■	■	■
All other applications developed to operate over Category 6 or class E cabling			■	■	■
10GBASE-T			■ ²	■	■
All other applications developed to operate Category 6A or class E _A cabling				■	■
All other applications developed to operate over Category 7 or class F cabling					■

Guaranteed Category 5e support of IEEE 1000BASE-T (Gigabit Ethernet) application:

Hitachi Cable America, Inc.'s Category 5e cables exceed all of the requirements specified by IEEE 802.3ab for support of Gigabit Ethernet (1000BASE-T) operation over twisted-pair cabling. Furthermore, Hitachi Cable guarantees that all of our Category 5e and higher rated cables will support the 1000BASE-T application.

To demonstrate our compliance, Hitachi Cable's products have been extensively tested for 1000BASE-T throughput at the University of New Hampshire's Interoperability Lab and found to fully support the IEEE 1000BASE-T Gigabit Ethernet application.

¹ Cat 7 Cable standard has not yet been ratified.

² Per TSB-155, Category 6 cable may accommodate 10 gigabit Ethernet up to 55 meters in a channel. Mitigation to achieve 55m may be required. Hitachi Cable's 10G-RD(TM) Enhanced Category 6 provides guaranteed 10 gigabit up to 90 meters in a channel.