

Technical Notes

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Product Part 17 Class Copper Cable Products	Description Technical Considerations - 350 Mhz Patch Cables	
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Subject How to sell 350 Mhz Patch Cables and the emerging standard.		

Overview

On the heels of Category 5 100 MBPS at 100MHz bandwidth, came 350 Mhz technology or Category 5E (Enhanced).

The 350 Mhz Category 5E (Enhanced) standard is not yet completely defined, but our engineers in California keep us on the cutting edge of this technology giving us invaluable design assistance, and availability of the latest product knowledge.

Technical Considerations

350 Mhz stands for - 350 Megahertz, which is 350 Million cycles per second. This is the carrier frequency to transmit 100MB of data

M = Mega or Million

Hz = abbreviation for Hertz, or cycles per second (bandwidth)

Analogy: Think of MHz as the lanes of a freeway. Think of MBPS as cars (in millions=bits)

The bigger the freeway, the more cars you can drive on it without conflict.

To attain bandwidth of this magnitude, the quality of cable used is critical. Very few manufacturers have proven their product capable of this level of performance. Quabbin's DataMax 1000® was one of the first products to successfully achieve this bandwidth. Although we are not limited to this brand, it is the primary wire we are using for the 350 Mhz/Category 5E cables; customer requests another brand, we can easily build cables to their specs.

When constructing Patch Cables the wire is always stranded, and Patch Cable lengths are 25' or less to adhere to EIA/TIA/E specs. We can build cables with longer lengths, or use a solid conductor wire with our "tiered contact" Mod Plugs, but the customer needs to be made aware this is an "out of spec" cable.

Selling Points

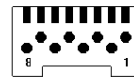
- We use one of the highest rated wire products available: Quabbin DataMax 1000®

- Our proprietary "tiered contact" Mod Plug separate the pairs to reduce crosstalk and improve high frequency performance creating a product SUPERIOR to what is in the marketplace. AMP style "load bar" plugs are also available and some customer may request this style mod plug, but they are more expensive and offer less performance than our "tiered contact" plugs.

OLD
Standard RJ45
Plug Wire Placement



NEW
Enhanced RJ45
Plug Wire Placement



- This combination on our cables will support 155/622 MBPS ATM technology, and emerging gigabit applications, including Ethernet

- Our process and product is 100% Tested, and backed up with LIFETIME WARRANTY.

- 100% US Made Components, produced in the USA, and built to EIA/TIA-568-A specifications.



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