

# Berk-Tek

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X3T9.2/90-44

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To: John Lohmeyer  
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cc: Larry J. Lamers, Maxtor Corporation

From: John A. Gibson, Berk-Tek Inc.

Date: January 17, 1990

Subject: Proposed Digital Single End Mode NEXT Testing

Reference: X3T9.2 Working Meeting , January 8 -9, 1990

Per the discussions on January 8 - 9, 1990, Berk-Tek has agreed to carry out digital, near end cross-talk testing, on samples submitted by interested manufacturers. The presentation made by Vit Novak, of Sun Microsystems, suggests that there may be a strong correlation between the single end mode NEXT, and overall cable performance in the system. Chuck Grant, Madion Cable, submitted a recommended test procedure for conducting this test. Berk-Tek will follow this procedure. Having a single manufacturer test all cables for a given parameter, should greatly reduce measurement differences caused by different equipment and set-ups.

Ideally, other manufacturers should volunteer to measure the other parameters that were discussed. Tom Debiec, Belden, has conducted impedance measurements. These were mailed out by Kurt Chan and distributed again at the working committee meeting. The other cable characteristics of importance were:

- \* Attenuation
- \* Rise Time Degradation
- \* Time Delay

All manufacturers should assure that cables submitted for testing, are of the same design as previously submitted to Sun or HP, in order to accurately correlate system measurements to basic cable parameters.

Any interested companies should contact John Ellis, Senior Product Development Engineer, Berk-Tek Inc., at 717-354-6200. An expected test date will be given at that time. Tests will be prioritized in order of receipt. A 20.5 ft sample is required, per the test procedure submitted by Madison. Test results, and the sample will be returned within one week of test completion.

Thank you.