

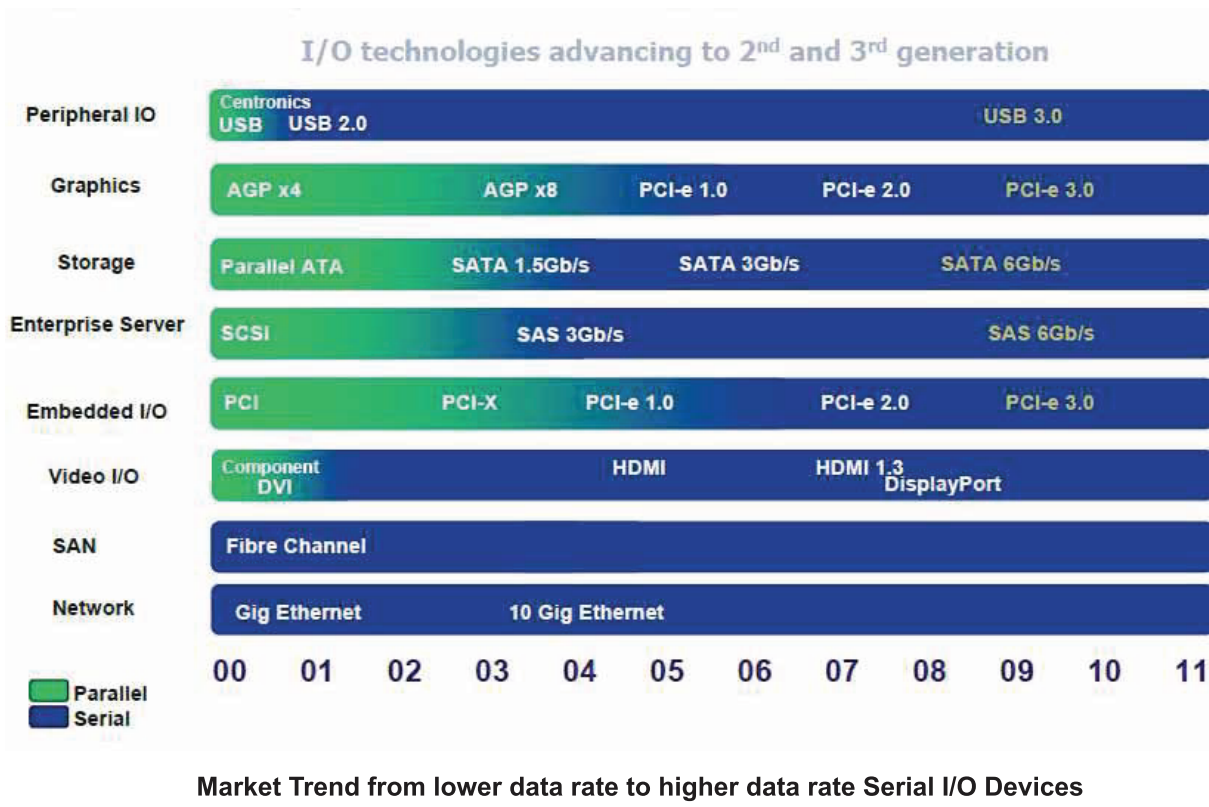
Impedance Controlled Flexible Flat Cable

$$SNR = \frac{P_{sig}}{P_{noise}}$$

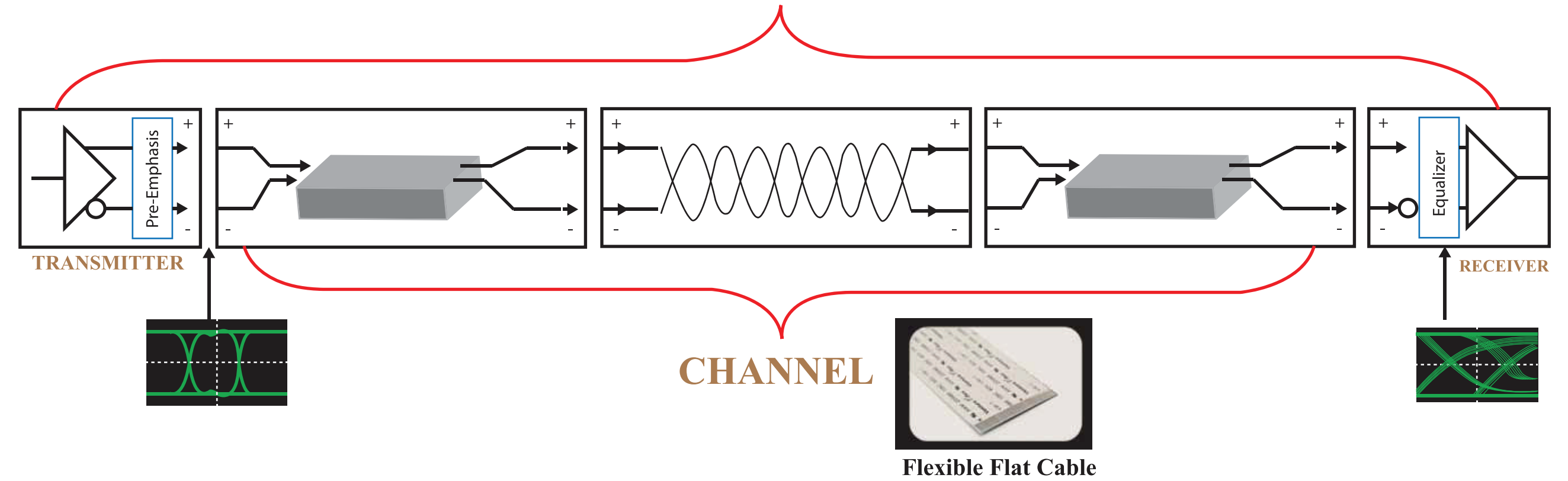
Patent Pending

BACKGROUND

As electronic devices demand higher digital serial data transmission rate, recent development of serial I/O interface accelerates in tandem with an increasing need for high performance Flexible Flat Cable (FFC) to control components/parts cost. At higher data speeds, ability to maintain Signal Integrity (Quality) becomes critical through impedance control and matching.



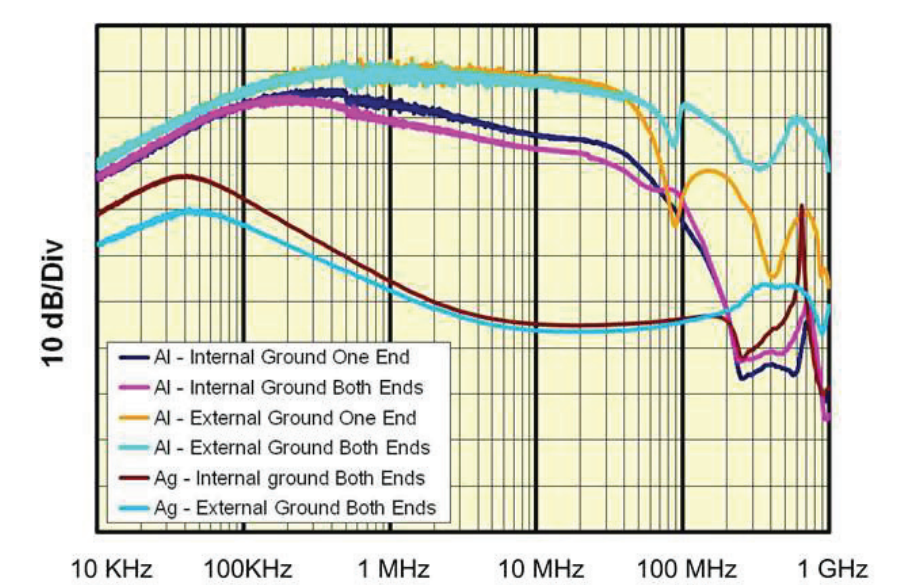
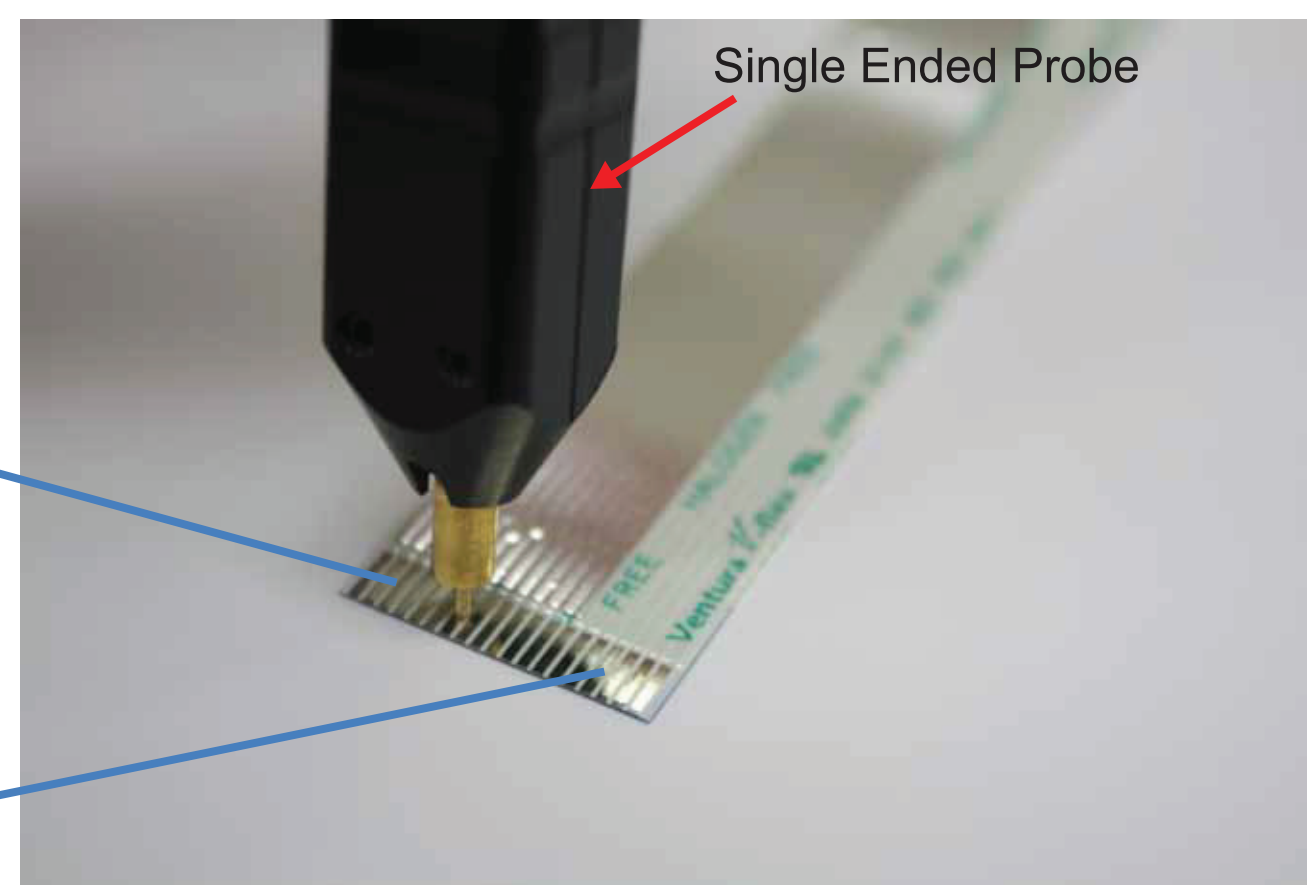
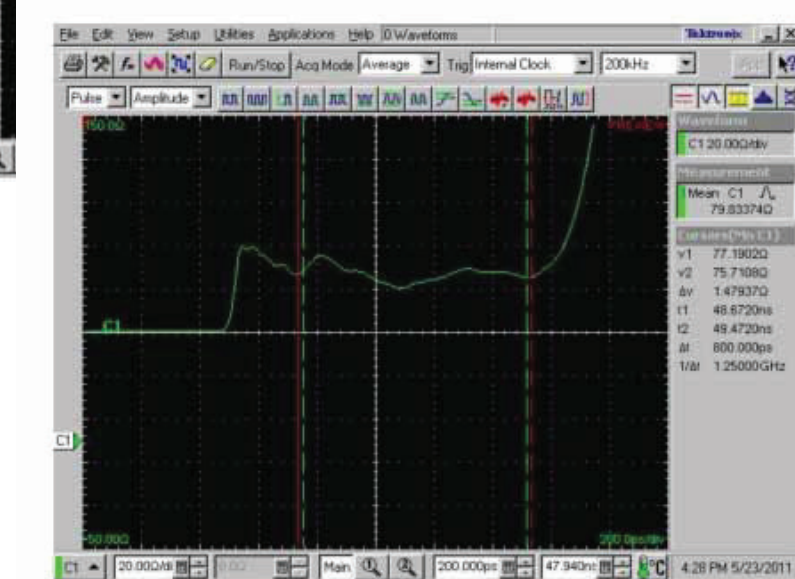
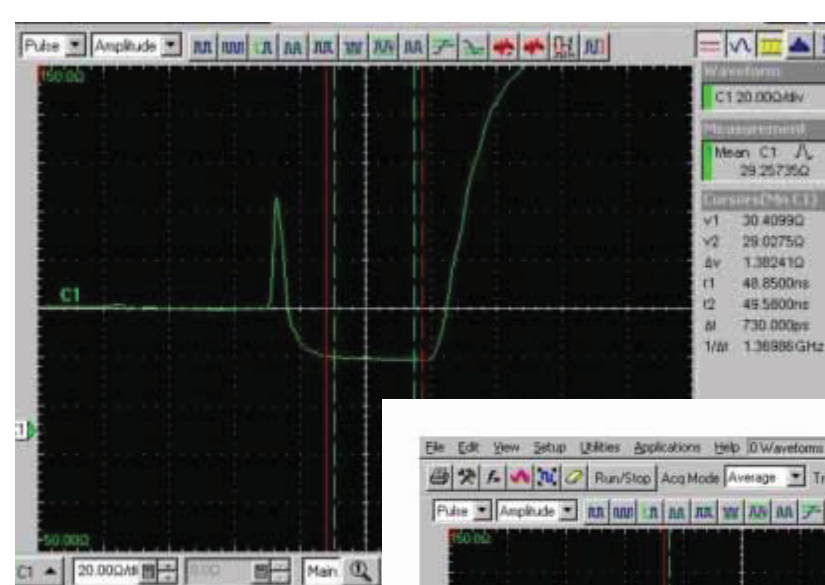
COMPLETE DIGITAL SERIAL DATA LINK



Ventura **V-Flex**[®] IMPEDANCE CONTROLLED FFC

Ventura **V-Flex**[®] High Performance Cost Effective Impedance Controlled FFC utilizes JSB TECH's proprietary V-Flex Selective Shielding FFC[™] method employing both Shielding and Controlled Capacitance to achieve the required characteristic impedance.

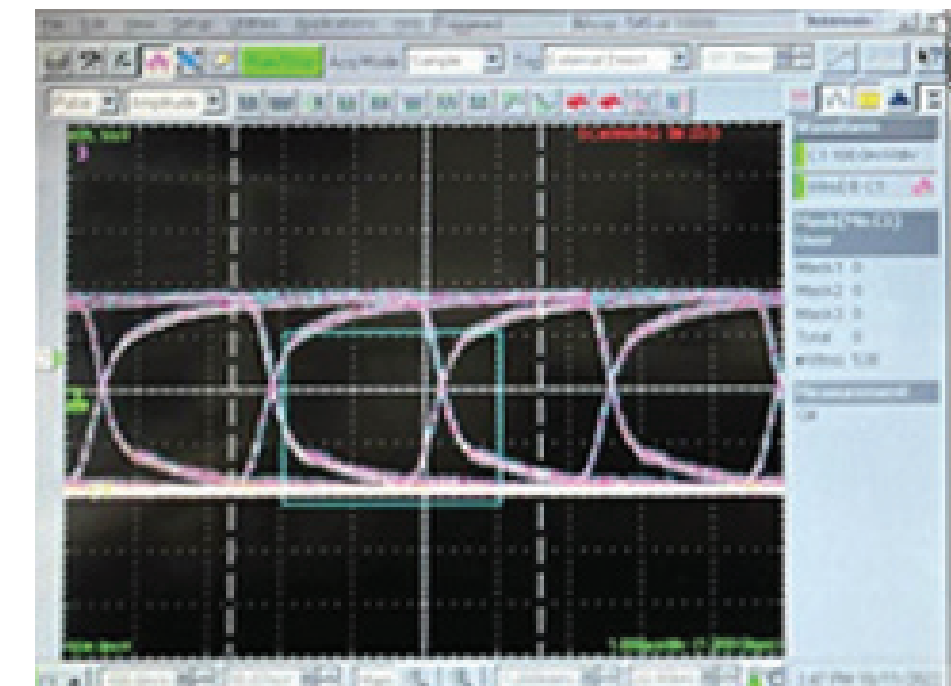
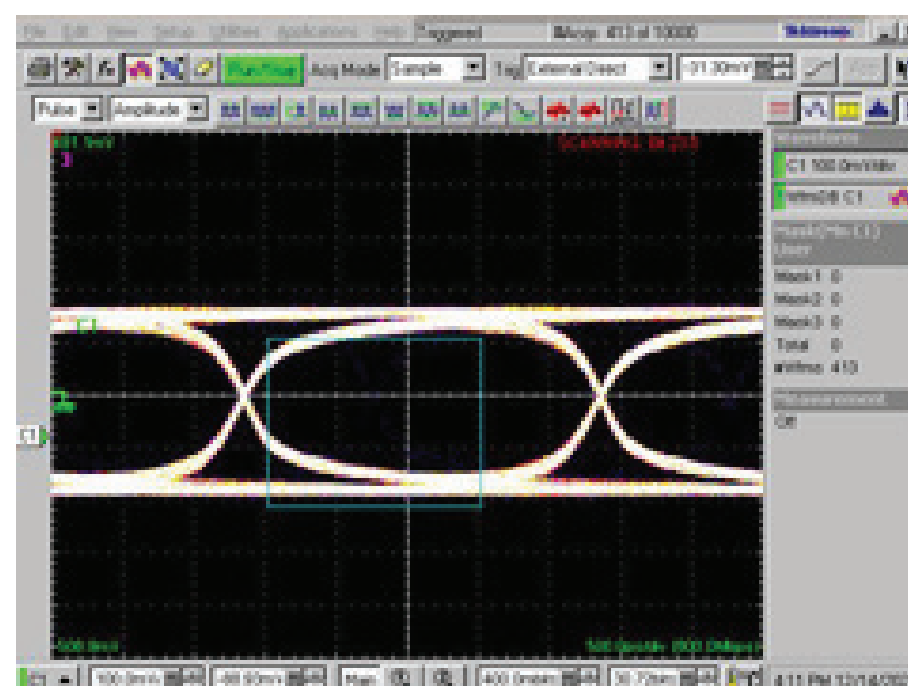
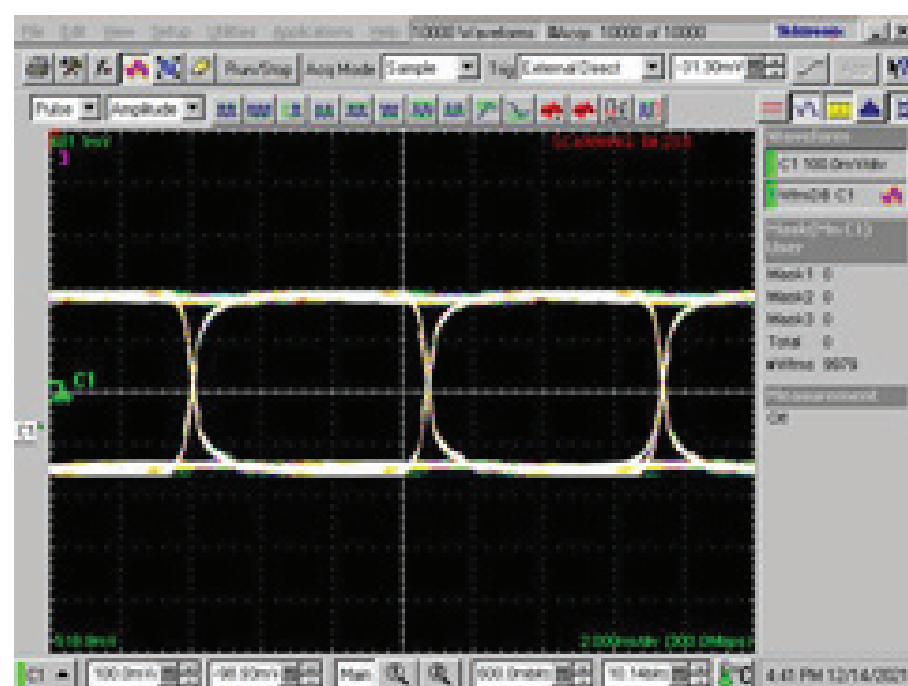
RESULTS



SELECTIVE SHIELDING FFC[™]

Multiple impedance values in one FFC cable

EYE DIAGRAM FOR HIGH PERFORMANCE Ventura **V-Flex**[®] FLEXIBLE FLAT CABLE



MERITS & IMPLICATIONS

- 1) Minimize the use of expensive shielding material (up to 50%) to achieve Impedance Matching.
- 2) Very Competitive Cost FFC while improving/maintaining existing EMI & ESD performance
- 3) Highly customizable to meet the various impedance design specification
- 4) Conformance to various High Speed Serial Data link standards

APPLICATIONS:

Laser/Inkjet printers/Scanner, Blue-Ray Player, Car Audio, Optical Drive, Iphone/Ipad related and other mobile devices utilizing serial I/O technologies