

Omnetics Miniature Connection News June, 2008

Applications and Insights on our products, our customized business and capabilities.

Ribbon- Great for Digital Signal Routing,

Controlled Impedance Ribbon cable insures signal performance. Pre-molded 85 Ω , 95 Ω impedance cables use Teflon® insulation with tightly dimensioned thickness and 25 thousands spacing to match and sustain specified impedance in the interconnection lines. Omnetics single row Bi-lobe® connectors are a perfect match @ 25 thousands pitch or direct termination to the connectors. Single Row receptacles for SMT Board mount can complete the termination for ideal board to board interconnection system management.

Cable Specifications include:

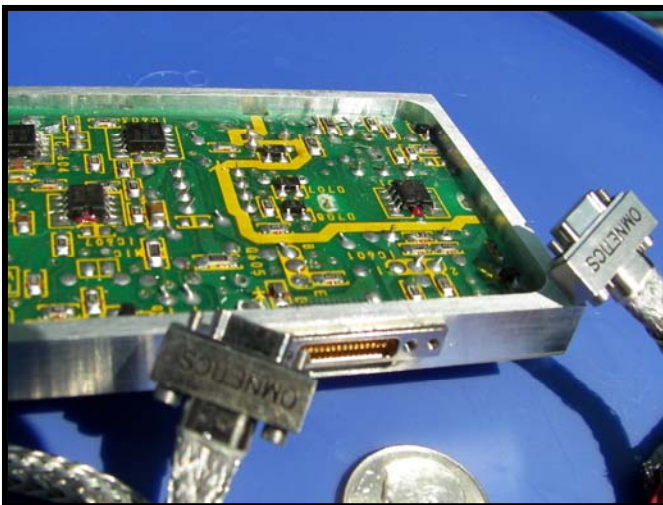
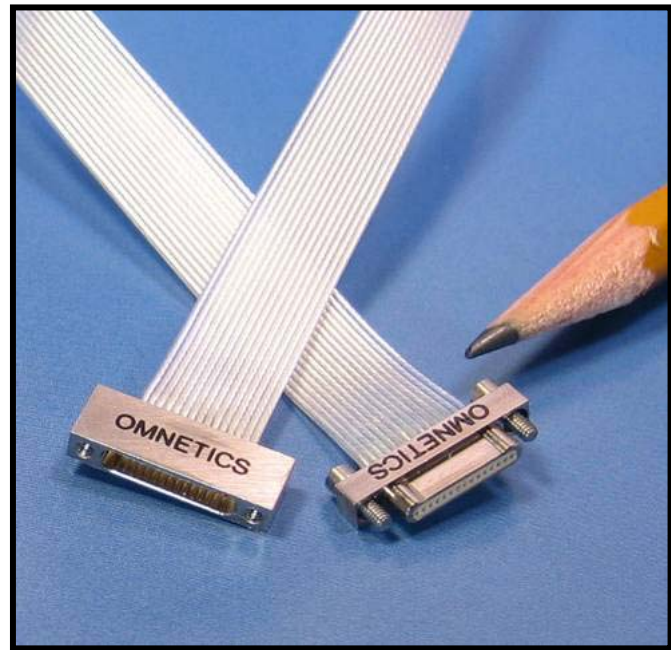
Impedance of 85 Ω / 100 Ω /etc.

Capacitance: 15 pF/ft. / etc.

Crosstalk: near 2.5 to 2.1 at 5 NS rise time.

Conductor resistance of 97 Ohms/1000 ft.

Connector Capacitance: 2.1 pF.



EMI plus Impedance control is managed by adding shields and backshells or shield foil systems to the connectors. This allows higher performance in noisy areas and prevents crosstalk from other interconnection lines in the modular environment. Mating Bi-Lobe receptacles available in Panel-mount, and thru-hole area also available. Multiple lead counts from our standatd and off-the-shelf products can be found on our web site or in our catalog. Note:

Ribbon cable is available from a number of high quality suppliers to match our 25 thousands pitch connectors. Author: bstanton@omnetics.com

More Info: www.omnetics.com