3M

HIGH DENSITY .050"

"D" RIBBON STYLE

INTERCONNECT SYSTEM
HIGH DENSITY CONNECTOR DESIGN CONSIDERATIONS

* MASS TERMINATION - IDC RELIABILITY
* WIPING INTERFACE DURABILITY / RELIABILITY
* PROTECTION OF CONTACTS
* ASSEMBLY TO PC BOARD
* ACCEPTANCE OF WIDE RANGE OF CABLE TYPES
* SHIELDING - PHYSICAL / ELECTRICAL
* DAISYCHAIN CAPABILITY
* COMPACT DESIGN
**PROPOSED SCSI SOLUTION**

3M Mini Delta Ribbon Complete I/O Cable System

3M INTERCONNECT SYSTEMS
TEST RESULTS
3M MDR
(HIGH TEMPERATURE PLASTIC SOCKET)
SAMPLE SIZE: 400 MATED PAIR CONTACTS

INITIAL CONTACT RESISTANCE
Incl. wiper, IDC, and 15–25mOhms of wire/pcb

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<th>High</th>
<th>Mean</th>
<th>Low</th>
<th>SD</th>
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<td></td>
<td>36.6</td>
<td>31.0</td>
<td>25.4</td>
<td>3.7</td>
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RESISTANCE CHANGES AFTER
DURABILITY
200 insertion/withdrawals

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<tr>
<td></td>
<td>-2.8</td>
<td>.331</td>
<td>0.0</td>
<td>.567</td>
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THERMAL SHOCK
-55°C and 105°C for 25 CYCLES

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<tr>
<td></td>
<td>3.1</td>
<td>.728</td>
<td>-0.01</td>
<td>.645</td>
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ENVIRONMENTAL STRESS
85°C at 85% Relative Humidity for 720HRS

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<td></td>
<td>3.5</td>
<td>.871</td>
<td>.002</td>
<td>.702</td>
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THERMAL LIFE
105°C FOR 264HRS

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<td>5.4</td>
<td>.796</td>
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*Note: All resistance units are milli-ohms
FIGURE 1: 50/68 CONTACT SHIELDED HIGH DENSITY DEVICE CONNECTOR
FIGURE 2: 50/68 CONTACT SHIELDED HIGH DENSITY DEVICE CONNECTOR
FIGURE 4: 50/68 CONTACT NONSHELDDED HIGH DENSITY DEVICE CONNECTOR
CONNECTORS CLAIMING COMPATIBILITY WITH THE 3M MINI DELTA RIBBON CONNECTOR

AMP       DDK       FUJITSU

HIROSE    HONDA     JAE