Cable Study with PN-3357 Cables (LVDS) and Fast 40 Type Driver

- Four Simulation Cases
  - 132 ohm cables (High end of spec) with 100 ohm termination
  - 90 ohm cables (Low end of spec) with 100 ohm termination
  - 90 ohm cables with 60 ohm termination
  - 75 ohm cables with 60 ohm termination
- Using previously described interconnect
- Assuming 28 AWG differential cables (0.38mm diameter)

<table>
<thead>
<tr>
<th>Table 1: Cable Characteristics</th>
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<tbody>
<tr>
<td><strong>Cable</strong></td>
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<tr>
<td>Wire diameter</td>
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<td>Wire to wire space</td>
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Comments

- Extend spec to allow for 75 ohm differential
- Allow a 60ohm termination option
- Also recommended by a RAID box designer
Terminator

Drive Box A

Drive Box B

SCSI Cable

Stub spacing 5cm

Stub length 15cm

6 stubs

Backplane Traces

SCSI Cables

30cm

Terminator

SCSI Simulation Configuration