



Serial ATA Revision 2.6 Technical Errata

Change ID	024
Applicable Spec.	Serial ATA 2.6

Submission info

Name	Company	Date
Jerry D. Kachlic	Molex	5/1/2008

Description of the specification technical flaw

Section 6.1.10.1 Housing and contact electrical requirements
Table 5 – Housing and contact electrical parameters, test procedures, and requirements
Parameter – Contact current rating (power segment)

The procedure for this parameter is based on the original 15 pin Power segment. With the addition of several new variants, the procedure must be rewritten to be more generic.

Section 6.1.10.2 Mechanical and environmental requirements
Table 6 – Mechanical test procedures and requirements
Parameter – Removal force, cable latching connector, Includes power and signal connectors

The requirement shall be reworded to clarify the intended goal.

Description of the correction:

Replace the Contact Current Rating procedure in Table 5 in section 6.1.10.1 as shown:

<p>Contact current rating (Power segment)</p>	<ul style="list-style-type: none"> • Mount the connector to a test PCB • Wire power pins P1, P2, P8, and P9 in parallel for power • Wire ground pins P4, P5, P6, P10, and P12 in parallel for return • Supply 6 A total DC current to the power pins in parallel, returning from the parallel ground pins (P4, P5, P6, P10, and P12) • Record temperature rise when thermal equilibrium is reached • Mount connector to a test PCB • Wire three adjacent pins in parallel for supply (or the minimum number required by the connector type) • Wire three adjacent pins in parallel for return (or the minimum number required by the connector type) • Apply a DC current of three times the current rating per contact to the supply pins, returning through the return pins. • Record temperature rise when thermal equilibrium is reached. 	<p>1.5 A per pin minimum. The temperature rise above ambient shall not exceed 30° C at any point in the connector when contact positions are powered. The ambient condition is still air at 25° C.</p>
---	--	--

Modify the Removal Force Cabled Latching Connector mechanical test requirements in Table 6 of section 6.1.10.2 as shown:

<p>Removal force Cabled Latching connector Includes power and signal connectors</p>	<p>EIA-364-13 Apply a static 25 N unmating test load</p>	<p>No damage and no disconnect through 50 mating cycles</p>
---	--	---

Disposition log

5/1/2008	Captured Revision 2.5 ECN 022 as Revision 2.6 ECN 024.
----------	--

Technical input submitted to the Serial ATA International Organization is subject to the terms of the SATA-IO contributor's agreement.