

T10/05-138r1 SAS-1.1 Proposed Compact Multi-lane Connector Pinouts

To: T10 Technical Committee  
From: Barry Olawsky, HP (barry.olawsky@hp.com)  
Date: 09 May 2005  
Subject: T10/05-138r1 SAS-1.1 Proposed Compact Multi-lane Connector Pinouts

**Revision History**

Revision 0 (7 April 2005) original document (Jay Neer, Molex)

Revision 1 (9 May 2005) first revision – Provide figures to more clearly display signal routing.

**Related Documents**

sas1r09b - Serial Attached SCSI 1.1, revision 9b

SFF-8086 Specification for Compact Multi-lane Connector Mating Interface, revision 1.0

**Overview**

Propose improved pinout for external compact multi-lane connector interface. Proposed pinout will simplify cable assembly process.

**Suggested Changes**

Modify table 29 to reflect the following pinout.

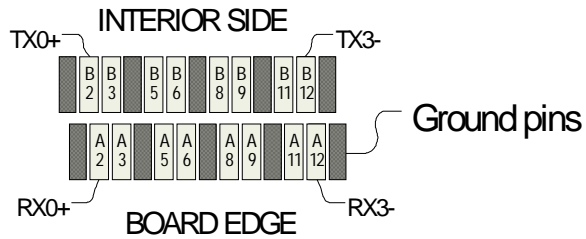
**Compact Multi-lane Connector**

**External to External 26pin Cable based on the Internal pinout  
ALL EXTERNAL DEVICES HAVE THE SAME PINOUT.**

EXTERNAL		EXTERNAL CABLE			EXTERNAL	
GND	A1	A1		B1	B1	GND
GND	B1	B1		A1	A1	GND
RX0+	A2	A2		B2	B2	TX0+
RX0-	A3	A3		B3	B3	TX0-
TX0+	B2	B2		A2	A2	RX0+
TX0-	B3	B3		A3	A3	RX0-
GND	A4	A4		B4	B4	GND
GND	B4	B4		A4	A4	GND
RX1+	A5	A5		B5	B5	TX1+
RX1-	A6	A6		B6	B6	TX1-
TX1+	B5	B5		A5	A5	RX1+
TX1-	B6	B6		A6	A6	RX1-
GND	A7	A7		B7	B7	GND
GND	B7	B7		A7	A7	GND
RX2+	A8	A8		B8	B8	TX2+
RX2-	A9	A9		B9	B9	TX2-
TX2+	B8	B8		A8	A8	RX2+
TX2-	B9	B9		A9	A9	RX2-
GND	A10	A10		B10	B10	GND
GND	B10	B10		A10	A10	GND
RX3+	A11	A11		B11	B11	TX3+
RX3-	A12	A12		B12	B12	TX3-
TX3+	B11	B11		A11	A11	RX3+
TX3-	B12	B12		A12	A12	RX3-
GND	A13	A13		B13	B13	GND
GND	B13	B13		A13	A13	GND

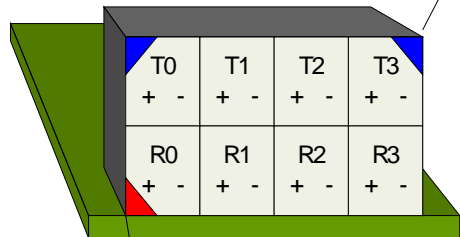
The following text is provided as a visual aid and SHALL NOT be incorporated in the specification.

### PINOUT

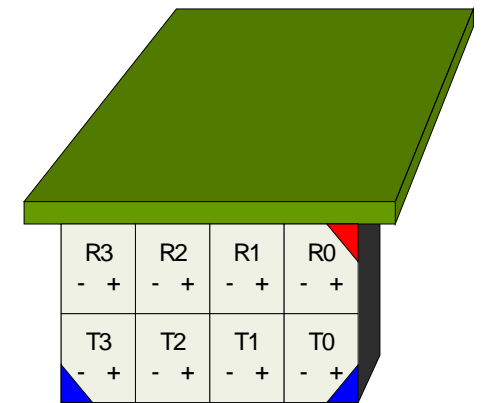
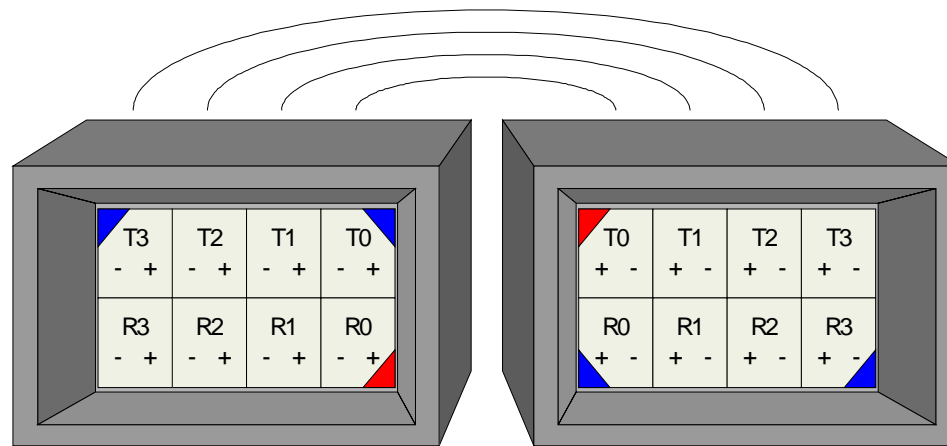


External cable assembly  
(Requires no crossing of pin-to-pin wiring routes)

Mechanical Polarizing Feature (Guide-rails)



Pin A1 location



### PIN NAME REFERENCES WITH RESPECT TO LEFT END PCB ASSEMBLY

