610111-10072	Cable Assembly

Applieddata.net

Embedded Computer Systems

Cable Assembly

Bitsy DTE/DB9M Serial Adapter, Port 3
TOP MOUNT

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1.0 PURPOSE

This document describes how to build a cable that breaks out a DB9M plug suitable for use as a standard DB9 serial port from Bitsy 2mm connector J3.

2.0 BILL OF MATERIALS:

ITEM	QTY	ADS PART NO.	DESCRIPTION
1	1/2	610111-0211A	Samtec 50-pin connector and ribbon cable, P/N TCSD-25-D-24.00-01-N (connectors on both ends, 24-inch; cut cable into two 12-inch lengths)
2	1	210020-00904	DB9 plug for ribbon cable attachment, AMP #747321-4 or equivalent

3.0 ASSEMBLY INSTRUCTIONS:

3.1 Separate ribbon cable (Item 1) wires required for J3 connection, as listed below. Pull apart as short a length as practical (usually about 1.5 inches).

3.2 Lay separated wires onto DB9 connectors as shown in the following table.

Signal	J3 2mm 50-pin	Serial 3 (RS232) DB9M
RXD3	28	2
TXD3	26	3
CTS3	25	8
RTS3	27	7
GND	49	5
RXD2T	19	
TXD2T	20	
DCD, DTR, DSR		1, 4, 6

3.3 Crimp each of the DB9 connectors. Use wire strain relief, if available.

3.4 Place a permanent adhesive label on the cable that specifies the cable assembly part number. You may have to use a band of clear tape wrapped around the cable to hold the label in place.

3.5 Place a label on the DB9 connector indicating "Serial 3".

4.0 REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVAL
1	Draft	07/12/2001	
2	Remove Serial 2 DB9. That connector invited plugging an invalid voltage into Serial 2, which could potentially damage the processor. Remove tool list. Assume they are standard.	6/17/2003	ak