



Cable Assembly

Bitsy Connector Board DTE/DB9M Serial Adapter, Ports 1/2/3

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1.0 PURPOSE

This document describes how to build a cable that allows the Bitsy connector Board's serial port headers to connection to a RS-232 null modem cable through DB9M plugs.

2.0 TOOLS REQUIRED

- 2.1 Wire cutters
- 2.2 Label printer

3.0 BILL OF MATERIALS:

ITEM	QTY	ADS PART NO.	DESCRIPTION
1	1	210070-00123	Samtec 10-pin connector and ribbon cable, P/N TCSD-05-S-06.00-01-N (connectors on one end, 6-inch)
2	1	210020-00904	DB9 plug for ribbon cable attachment, AMP #747321-4 or equivalent

4.0 ASSEMBLY INSTRUCTIONS:

- 4.1 Separate all the wires in ribbon cable (Item 1) from each other. Pull apart as short a length as practical (usually about 1 inch).
- 4.2 Trim off ribbon cable wire 10 that won't be used in the cable.
- 4.3 Lay separated wires onto DB9 connectors as shown in the following table.

<i>Signal</i>	<i>IDC cable</i>	<i>RS232 conn.</i>
	<i>2mm 10-pin</i>	<i>DB9M</i>
<i>DCD</i>	<i>1</i>	<i>1</i>
<i>DSR</i>	<i>2</i>	<i>6</i>
<i>RXD</i>	<i>3</i>	<i>2</i>
<i>RTS</i>	<i>4</i>	<i>7</i>
<i>TXD</i>	<i>5</i>	<i>3</i>
<i>CTS</i>	<i>6</i>	<i>8</i>
<i>DTR</i>	<i>7</i>	<i>4</i>
<i>RIB</i>	<i>8</i>	<i>9</i>
<i>GND</i>	<i>9</i>	<i>5</i>

- 4.4 Crimp each of the DB9 connectors. Use wire strain relief, if available.
- 4.5 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.

5.0 REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVAL
1	Draft	06/20/2001	