ADS
Applied Data Systems, Inc.

Cable Assembly

Graphics Client Serial Port 3

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1.0 PURPOSE

This document describes how to build a cable that converts from the 2x5 format of Graphics Client connector J10 to a DB9M socket suitable for connecting to a standard DB9 RS-232 serial cable.

2.0 TOOLS REQUIRED
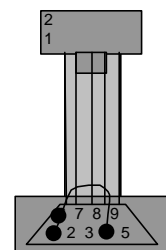
2.1   IDC cable crimper

2.2   Label printer

3.0 BILL OF MATERIALS:

ITEM	QTY	ADS PART NO.	DESCRIPTION
1	8 in	600400-00008	Ribbon cable, 10-conductor
2	1 ea.	210030-00101	2x5 IDC socket housing, ribbon crimp connector with strain relief.
3	1 ea.	210020-00904	DB9 plug for ribbon cable attachment, AMP #747321-4 or equivalent

4.0 ASSEMBLY INSTRUCTIONS:

4.1   Crimp IDC socket (Item 2) onto one end of ribbon cable (Item 1) so that the cable comes out the side of the connector away from the key.

4.2   Fold the cable back over the top of the and install the strain relief.

4.3   Separate ribbon cable wires 1, 2, 7, and 10 from the rest of the cable near the uncrimped (DB9) end.

4.4   Thread a short piece of ribbon cable wire between pins 1, 4 and 6 of the DB9 plug (Item 3) as shown in figure below. Press them gently into place in the V-shaped insulation displacement sockets.

4.5   Lay the rest of the ribbon cable wires into the DB9 plug. Resulting wire table should be as follows (each row represents pins that are connected together):

Graphics Client		RS-232 DTE	
Signal name	*IDC 2x5*	*DB9M*	*Signal name*
		1, 4, 6	*DCD, DTR, DSR*
n/c	*1*		
	2		
RXD3	*3*	*2*	*RX*
RTS3	*4*	*7*	*RTS*
TXD3	*5*	*3*	*TX*
CTS3	*6*	*8*	*CTS*
n/c	*7*		
n/c	*8*	*9*	*RI*
GNDFILT3	*9*	*5*	*GND*
n/c	*10*		

Top (back) view

4.6   Crimp the backing onto the housing in a cable vice.

4.7   Trim ribbon cable wires 1-2, 7, and 10 near the DB9 plug.

4.8 Identify the cable assembly by part number using permanent adhesive label (e.g. "J10 Serial3/610110/-4004B")

5.0 REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVAL
	Initial release	6/25/99	
	Add ADS part numbers to BOM	7/7/99	AK
A	Include port number in document title	10/11/99	AK
	Correct part number for IDC part Add sketch of connector	12/7/99	AK
B	Update construction for use with Windows CE ActiveSync per ECN 110-4_A_0xx	1/5/00	AK