



Cable Assembly

USB Function/GPIO Cable for AGX Devices

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1.0 PURPOSE

This document describes how to build a cable to connect an AGX System's USB Function (Client) port to a USB Host (PC). This cable can be built in many ways, but this document describes how to build it with parts stocked at ADS at the time of writing.

2.0 TOOLS REQUIRED


- 2.1 Wire cutter/stripper for 28 AWG wire
- 2.2 Label printer

3.0 BILL OF MATERIALS:

ITEM	QTY	ADS PART NO.	DESCRIPTION
1	½	610110-0210A	24" long 30 pin cable assembly, 2mm pitch
2	1	610000-00038	10 ft USB A(male) to B(male) cable

4.0 ASSEMBLY INSTRUCTIONS:

- 4.1 Cut in half the 24" long 2mm cable and use one of the two pieces.
- 4.2 Cut the "B" end off of the USB cable and discard
- 4.3 Connect the wires as shown in the following table:

Signal Name on J8	2mm Cable Location	USB A(male) Cable Location					
USB_VCC	26	1	 <div style="text-align: right;"> USB-A (plug) Mating Face <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>4</td> <td>3</td> <td>2</td> <td>1</td> </tr> </table> </div>	4	3	2	1
4	3	2		1			
USB_UDC-	28	2					
USB_UDC+	30	3					
USB_GND	27	4					

- 4.4 Identify the cable assembly by part number using permanent adhesive label.

5.0 REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVAL
1	Initial draft	10/7/03	CBT
2	Updated to remove molex connectors	10/14/03	CBT
3	Corrected pin/cable mating and drawing	11/25/03	CBT