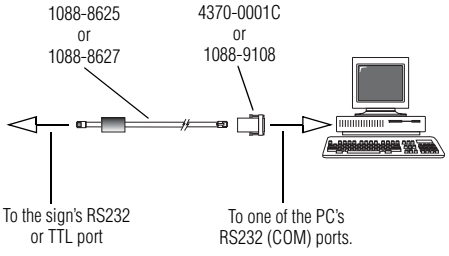
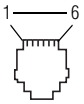
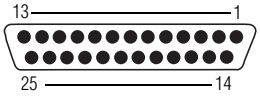
ADAPTIVE® TechMemo #02-0010A

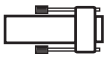
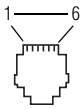
PRIORITY:	Normal
DATE:	October 9, 2002
TITLE:	Network cabling and sign connection pinouts
ECO REFERENCE:	n/a
PRODUCT(S) AFFECTED:	Alpha® signs
SUMMARY:	This document contains a list of common cabling and connectors used to network Alpha® signs. For additional information, see the Networking Alpha Signs manual, pn 9700-0112.

Network cabling pinouts

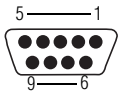
<table>
<tr><th>Part #</th><th>Item</th><th>Function</th><th>Pinout</th></tr>
<tr><td>4370-0001C</td><td>25 pin sub-D / 6 pos. RJ11:
  </td><td rowspan="3"> 
</td><td> 

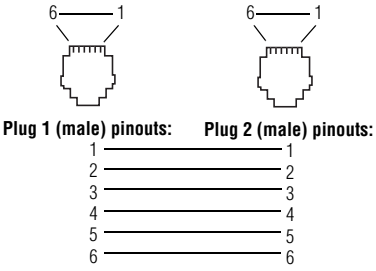
RJ11 (female) pinouts:
1 = Signal GND
3 = RXD
4 = TXD

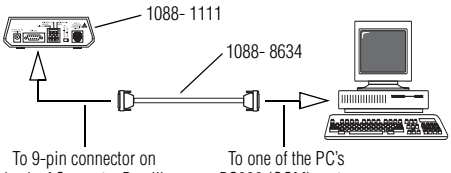
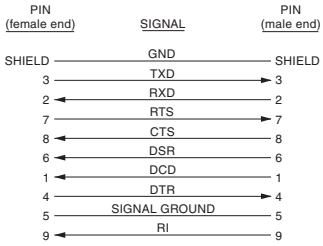
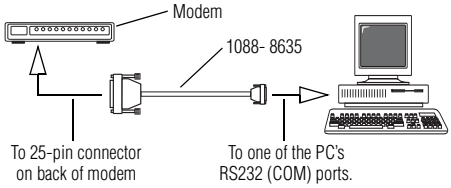
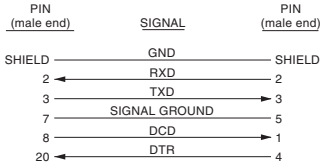
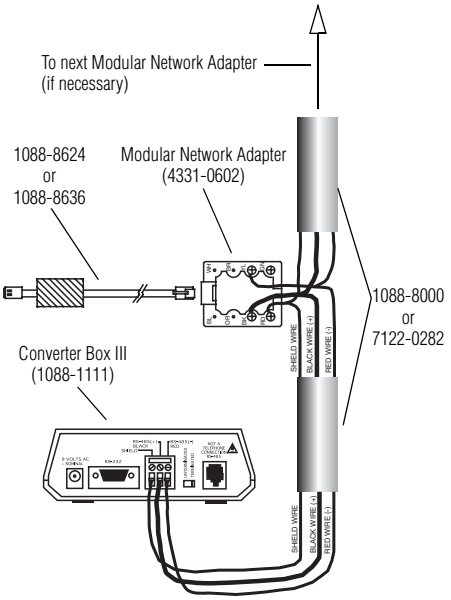
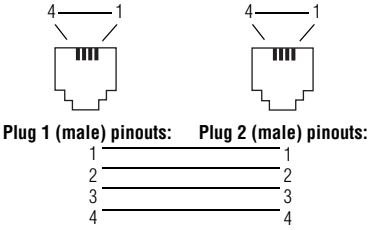
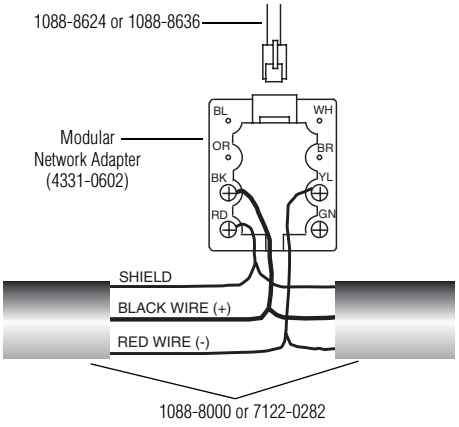
25 pin / sub-D (female) pinouts:
2 = TXD 6 = DSR
3 = RXD 7 = Signal GND
4 = RTS 8 = DCD
5 = CTS 20 = DTR</td></tr>
<tr><td>1088-9108</td><td>9 pin sub-D / 6 pos. RJ11:
  </td><td> 

RJ11 (female) pinouts:
1 = Signal GND
3 = RXD
4 = TXD

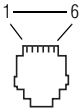
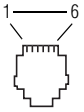
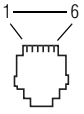
 

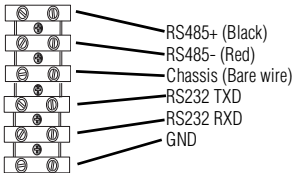
9 pin / sub-D (female) pinouts:
1 = DCD 5 = Signal GND
2 = RXD 6 = DSR
3 = TXD 7 = RTS
4 = DTR 8 = CTS</td></tr>
<tr><td>1088-8625
&
1088-8627</td><td>6-connector RS232 data cable:
 
1088-8625 is 25 feet long.
1088-8627 is 50 feet long.</td><td> 
</td></tr>
</table>

Adaptive Micro Systems • 7840 North 86th Street • Milwaukee, WI 53224 USA • 414-357-2020 • 414-357-2029 (fax) • http://www.adaptivedisplays.com

1088-8634	10 foot, 9 pin-to-9 pin type "A9" RS232 cable: 		
1088-8635	10 foot, 25 pin-to-9 pin type "B9" RS232 cable: 		
1088-8624 & 1088-8636	4-connector RS485 data cable:  1088-8624 is 8 feet long. 1088-8636 is 1 foot long.		
4331-0602	Modular Network Adapter 		
1088-8000 & 7122-0282	RS485 network cabling:  1088-8000 is a 1000 foot spool. 7122-0282 is a 100 foot spool.		

Sign connector pinouts

Type	Pinout	Sign type																	
		2.1" AlphaVision™	3.2" AlphaVision™	9000 Series	7000 Series	4000 Series	300 Series	200 Series	AlphaVision™ (Full Matrix)	Beta-Brite®	Big Dot®	Director™	Serial Clock	PPD®	AlphaTicker™	AlphaVision™ InfoTracker™	AlphaEclipse™	Alpha® Solar	NEMA 4, 4X, 12
RS485	 **Pinouts (female):** 1 = No connect 2 = RS485 (+) 3 = No connect 4 = No connect 5 = RS485 (-) 6 = No connect	●	●	●	●	●	●	●	●		●	●	●						
	This connector is inside the sign.  RS485(-) RS485(+) SHIELD																	●	
	 **Pinouts (female):** 1 = RS485 (-) 2 = RS485 (+) 3 = Shield 4 = RS485 sync (-) 5 = RS485 sync (+) 6 = No connect														●	●			
RS232 / RS485 / TTL	 **Pinouts (female):** 1 = GND 2 = RS485 (+) 3 = RXD 4 = TXD 5 = RS485 (-) 6 = +5V (200 mA max)	●	●		●	●	●	●	●		●	●	●	●					●
RS232	 **Pinouts (female):** 1 = GND 2 = No connect 3 = RXD 4 = TXD (TTL) 5 = No connect 6 = +5V (200 mA max)			●						●									
	This connector is inside the sign.  Fused ISO +5V TXD RXD RS232 GND																	●	
RJ45/Ethernet	 **Pinouts (female):** 1 = RTS 2 = DTR 3 = TX+ 4 = TX- 5 = RX- 6 = RX+ 7 = DSR 8 = CTS			●											●	●			

Type	Pinout	Sign type																	
		2.1" AlphaVision™	3.2" AlphaVision™	9000 Series	7000 Series	4000 Series	300 Series	200 Series	AlphaVision™ (Full Matrix)	Beta-Brite®	Big Dot®	Director™	Serial Clock	PPD®	AlphaTicker™	AlphaVision™ InfoTracker™	AlphaEclipse™	Alpha® Solar	NEMA 4, 4X, 12
RJ11	 **Pinouts (female):** 1 = RS485+ 2 = No connect 3 = No connect 4 = RS485-						●							●					
Terminal Block																	●		