

Cabling Specifications

This appendix contains tables listing the pinouts associated with the AccessPro card cables. The following cable pinouts are included:

- Auxiliary Port Connector DTE Pinout, Table A-1
- BRI Port Pinout (RJ-45), Table A-2
- EIA-530 DTE Serial Cable Pinout (DB-25), Table A-3
- EIA/TIA-232 DTE and DCE Serial Cable Pinouts (DB-25), Table A-4
- EIA/TIA-449 DTE and DCE Serial Cable Pinouts (DB-37), Table A-5
- V.35 DTE and DCE Serial Cable Pinouts (Winchester-Type 34 Pin), Table A-6
- X.21 DTE and DCE Serial Cable Pinouts (DB-15), Table A-7
- Ethernet 10BaseT Connector Pinouts and Signal Descriptions, Table A-8
- Token Ring RJ-45 Connector Pinouts and Signal Descriptions, Table A-9

Table A-1 Auxiliary Port Connector DTE Pinout

RJ-45	Normal Function	DB-25
1	Auxiliary port RTS	5
2	Auxiliary port DTR	6
3	Auxiliary port TxD	3
4	GND	7
5	GND	7
6	Auxiliary port RxD	2
7	Auxiliary port CD	20
8	Auxiliary port CTS	4

Table A-2 BRI Port Pinout (RJ-45)

8 Pin¹	TE²	NT³	Polarity
3	Transmit	Receive	+
4	Receive	Transmit	+
5	Receive	Transmit	–
6	Transmit	Receive	–

1. Pins 1, 2, 7, and 8 are not used.
2. TE refers to terminal terminating layer 1 aspects of TE1, TA, and NT2 functional groups.
3. NT refers to network terminating layer 1 aspects of NT1 and NT2 functional groups.



Caution To prevent damage to the system, make certain you connect the BRI cable to the BRI connector *only* and not to any other RJ-45 connector. The Ethernet, Token Ring, and BRI ports all use RJ-45 connectors.

Note All serial cables have a DB-60 connector on the end that attaches to the AccessPro card. The following pinouts represent only the network ends of the cables. Because the pins on the DB-60 connector are small, manufacturing and soldering these cables yourself might be very difficult and is not recommended.

Note In the following tables, serial pinouts for DTE and DCE cables use arrows to indicate signal direction: —> indicates DTE to DCE, and <— indicates DCE to DTE.

Table A-3 EIA-530 DTE Serial Cable Pinout (DB-25)

25 Pin ¹	Signal	Direction		25 Pin	Signal	Direction	
		DTE	DCE ²			DTE	DCE
J2-1	Shield	—		J2-8	CF(A), DCD+	<—	
—	—	—		J2-10	CF(B), DCD—	<—	
J2-2	BA(A), TxD+	—>		J2-15	DB(A), TxC+	<—	
J2-14	BA(B), TxD—	—>		J2-12	DB(B), TxC—	<—	
J2-3	BB(A), RxD+	<—		J2-17	DD(A), RxC+	<—	
J2-16	BB(B), RxD—	<—		J2-9	DD(B), RxC—	<—	
J2-4	CA(A), RTS+	—>		J2-18	LL	—>	
J2-19	CA(B), RTS—	—>		J2-7	Circuit GND	—	
J2-5	CB(A), CTS+	<—		J2-20	CD(A), DTR+	—>	
J2-13	CB(B), CTS—	<—		J2-23	CD(B), DTR—	—>	
J2-6	CC(A), DSR+	<—		J2-24	DA(A), TxCE+	—>	
J2-22	CC(B), DSR—	<—		J2-11	DA(B), TxCE—	—>	

1. Any pin not referenced is not connected.

2. A DCE cable is not available for the EIA-530 interface. The EIA-530 interface cannot be operated in DCE mode.

Table A-4 EIA/TIA-232 DTE and DCE Serial Cable Pinouts (DB-25)

25 Pin ¹	Signal	Direction		25 Pin	Signal	Direction	
		DTE	DCE			DTE	DCE
J2-1	Shield GND	—		J2-7	Circuit GND	—	
				Shield	—	—	
J2-2	TxD	—>		J2-8	DCD	<—	
Shield	—	—		Shield	—	—	
J2-3	RxD	<—		J2-15	TxC	<—	
Shield	—	—		Shield	—	—	
J2-4	RTS	—>		J2-17	RxC	<—	
Shield	—	—		Shield	—	—	
J2-5	CTS	<—		J2-18	LTST	—>	
Shield	—	—		Shield	—	—	
J2-6	DSR	<—		J2-20	DTR	—>	
Shield	—	—		Shield	—	—	
				J2-24	TxCE	—>	
				Shield	—	—	

1. Any pin not referenced is not connected.

Table A-5 EIA/TIA-449 DTE and DCE Serial Cable Pinouts (DB-37)

37 Pin ¹	Signal	Direction		37 Pin	Signal	Direction	
		DTE	DCE			DTE	DCE
J2-1	Shield GND	—		J2-9	CS+	—>	
				J2-27	CS—	—>	
J2-4	SD+	<—		J2-10	LL	—>	
J2-22	SD—	<—		J2-37	SC	—	
J2-5	ST+	—>		J2-11	DM+	—>	
J2-23	ST—	—>		J2-29	DM—	—>	
J2-6	RD+	—>		J2-12	TR+	<—	
J2-24	RD—	—>		J2-30	TR—	<—	
J2-7	RS+	<—		J2-13	RR+	—>	
J2-25	RS—	<—		J2-31	RR—	—>	
J2-8	RT+	—>		J2-17	TT+	<—	
J2-26	RT—	—>		J2-35	TT—	<—	
				J2-19	SG	—	
				J2-20	RC	—	

1. Any pin not referenced is not connected.

Table A-6 V.35 DTE and DCE Serial Cable Pinouts (Winchester-Type 34 Pin)

34 Pin ¹	Signal	Direction		34 Pin	Signal	Direction	
		DTE	DCE			DTE	DCE
J2-A	Frame GND	—		J2-H	DTR	—>	
				Shield	—	—	
J2-B	Circuit GND	—		J2-K	LT	—>	
Shield	—	—		Shield	—	—	
J2-C	RTS	—>		J2-P	SD+	—>	
Shield	—	—		J2-S	SD—	—>	
J2-D	CTS	<—		J2-R	RD+	<—	
Shield	—	—		J2-T	RD—	<—	
J2-E	DSR	<—		J2-U	SCTE+	—>	
Shield	—	—		J2-W	SCTE—	—>	
J2-F	RLSD	<—		J2-V	SCR+	<—	
Shield	—	—		J2-X	SCR—	<—	
				J2-Y	SCT+	<—	
				J2-AA	SCT—	<—	

1. Any pin not referenced is not connected.

Table A-7 X.21 DTE and DCE Serial Cable Pinouts (DB-15)

15 Pin ¹	Signal	Direction	
		DTE	DCE
J2-1	Shield GND	—	
J2-2	Transmit+	—>	
J2-9	Transmit–	—>	
J2-3	Control+	—>	
J2-10	Control–	—>	
J2-4	Receive+	<—	
J2-11	Receive–	<—	
J2-5	Indication+	<—	
J2-12	Indication–	<—	
J2-6	Timing+	<—	
J2-13	Timing–	<—	
J2-8	Circuit GND	—	
Shield	—	—	

1. Any pin not referenced is not connected.

Table A-8 Ethernet 10BaseT Connector Pinouts and Signal Descriptions

Pin ¹	Description
1	TX+
2	TX–
3	RX+
4	GND
5	GND
6	RX–
7	GND
8	GND

1. Any pin not referenced is not connected.

Table A-9 Token Ring RJ-45 Connector Pinouts and Signal Descriptions

Pin¹	Description
1	GND
2	GND
3	TX
4	RX
5	RX
6	TX
7	GND
8	

1. Any pin not referenced is not connected.