

Cabling Specifications

This appendix provides the following pinout information:

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- Router Card Console Port Pinouts (RJ-45), Table D-3
- Pins for the RJ-45 Connector, M/F DTE, M DCE, and MMOD Adapters, Table D-4
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Management Card Console Cable and Pinouts

Figure D-1 shows the management card console cable, and Table D-1 lists the pinouts.

Figure D-1 Management Card Console Cable

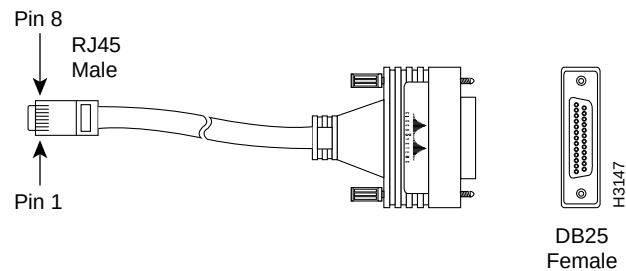


Table D-1 Management Card Console Port Pinouts

RJ-45 Pins	Description	DB-25 Female Pins
1	RxD	3
2	GND	7
—	CTS	5 ¹
—	RTS	4 ¹
8	TxD	2

1. Pins 5 and 4 are connected.

Console and Auxiliary Port Signals and Pinouts

Following are the pinouts for the router card auxiliary port (Table D-2), and the router card console port (Table D-3):

Note To use the auxiliary port as a console port, you must set jumpers on the router card. See the section “Router Card Jumper Settings” in the appendix “Router Card Maintenance.”

Table D-2 Router Card Auxiliary Port Pinouts (RJ-45)

Auxiliary Port		
Pin	Signal	Input/Output
1	RTS	Output
2	DTR	Output
3	TXD	Output
4	GND	–
5	GND	–
6	RXD	Input
7	DSR	Input
8	CTS	Input

Table D-3 Router Card Console Port Pinouts (RJ-45)

Console Port		
Pin	Signal	Input/Output
1	–	–
2	DTR	Output
3	TxD	Output
4	GND	–

Console and Auxiliary Port Signals and Pinouts

Console Port		
Pin	Signal	Input/Output
5	GND	–
6	RxD	Input
7	DSR	Input
8	–	–

Refer to Table D-4 for a list of the pins used on the RJ-45 connector, the male/female DTE adapter, the male/female DCE adapter, and the male modem adapter used to connect terminals and modems to the Cisco hub. The connection of pins between the RJ-45 connector and the end device depends on the type of cable used, either straight or rolled. A straight cable connects pin 1 to pin 1, pin 2 to pin 2, and so on. A rolled cable connects pin 1 to pin 8, pin 2 to pin 7, and so on. The Cisco 2517 and Cisco 2519 ships with a rolled cable. Refer to Table D-5 for the cable and adapter configurations that can be used to connect terminals and modems to the Cisco 2517.

Table D-4 Pins for the RJ-45 Connector, M/F DTE, M DCE, and MMOD Adapters

Cable	DB-25 Adapters		
RJ-45 Pins	M/F DTE Pins ¹	M DCE Pins	MMOD Pins ²
1	4	5	5
2	20	6	8
3	2	3	3
4	7	7	7
5	7	7	7
6	3	2	2
7	6	20	20
8	5	4	4

1. The FDTE adapter that is available through Cisco is labeled “Terminal.”

2. The MMOD adapter that is available through Cisco is labeled “Modem.”

Table D-5 Connection Configuration

Router Card Port	RJ-45 Cable Type	DB-25 Adapter	End Device
Console/auxiliary	Rolled	FDTE	Terminal
Console/auxiliary	Straight	FDCE	Terminal
Console/auxiliary	Rolled	MDCE ¹	Modem
Console/auxiliary	Straight	MDTE ¹	Modem
Auxiliary/console	Rolled	MMOD ¹	Modem

1. Modify by removing DB-25 pin 6 and replacing it in the Pin 8 position.

BRI Port Pinout and Signals

Table D-6 lists the router card BRI port pinout and signals.

Table D-6 BRI Port Pinout (RJ-45)

Pin ¹	TE ²	NT ³	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 console, auxiliary, Token Ring, and BRI ports all use RJ-45 connectors.

Token Ring Pinout

Table D-7 lists the pinout for the Token Ring interface ports.

Table D-7 Token Ring Port Pinout (RJ-45)

RJ-45 Pins	Signal
1	GND
2	GND
3	Tx
4	Rx
5	Tx
6	Rx
7	GND
8	Not used

Serial Cable Assemblies and Pinouts

The following illustrations and tables provide assembly drawings and pinouts for the EIA-530 DCE, and EIA/TIA-232, EIA/TIA-449, V.35, and X.21 DTE and DCE cables.

EIA-530

Figure D-2 shows the EIA-530 serial cable assembly, and Table D-8 lists the pinouts. Arrows indicate signal direction: —> indicates DTE to DCE, and <— indicates DCE to DTE.

Figure D-2 EIA-530 Serial Cable Assembly

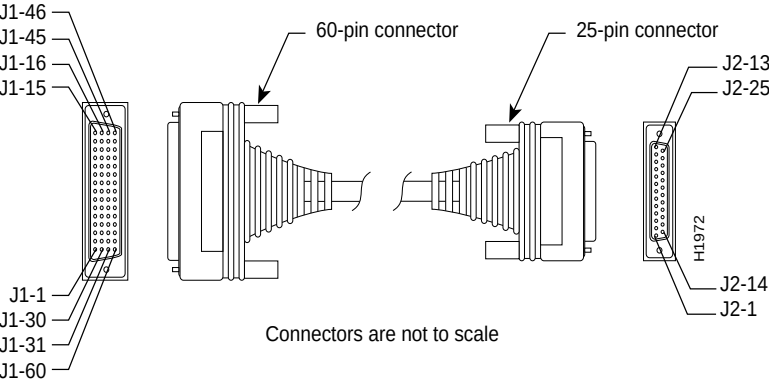


Table D-8 EIA-530 DTE Cable Pinout (DB-60 to DB-25)

60 Pin ¹	Signal	25 Pin	Signal	Direction	
				DTE	DCE ²
J1-1	CTS/RTS+	J2-5	CB(A), CTS+	<—	
J1-2	CTS/RTS–	J2-13	CB(B), CTS–	<—	
J1-3	DSR/DTR+	J2-6	CC(A), DSR+	<—	
J1-4	DSR/DTR–	J2-22	CC(B), DSR–	<—	

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	25 Pin	Signal	Direction DTE DCE ²
J1-5	DCD/DCD+	J2-8	CF(A), DCD+	<—
J1-6	DCD/DCD—	J2-10	CF(B), DCD—	<—
J1-7	DTR/DSR+	J2-20	CD(A), DTR+	—>
J1-8	DTR/DSR—	J2-23	CD(B), DTR—	—>
J1-9	RTS/CTS+	J2-4	CA(A), RTS+	—>
J1-10	RTS/CTS—	J2-19	CA(B), RTS—	—>
J1-11	TxD/RxD+	J2-2	BA(A), TxD+	—>
J1-12	TxD/RxD—	J2-14	BA(B), TxD—	—>
J1-13	TxCE/TxC+	J2-24	DA(A), TxCE+	—>
J1-14	TxCE/TxC—	J2-11	DA(B), TxCE—	—>
J1-24	TxC/RxC+	J2-15	DB(A), TxC+	<—
J1-23	TxC/RxC—	J2-12	DB(B), TxC—	<—
J1-26	RxC/TxCE+	J2-17	DD(A), RxC+	<—
J1-25	RxC/TxCE—	J2-9	DD(B), RxC—	<—
J1-28	RxD/TxD+	J2-3	BB(A), RxD+	<—
J1-27	RxD/TxD—	J2-16	BB(B), RxD—	<—
J1-44	LL/DCD	J2-18	LL	—>
J1-45	Circuit_GND	J2-7	Circuit_GND	—
J1-46	Shield_GND	J2-1	Shield	Shorted
J1-47	MODE_2	—	—	
J1-48	GND	—	—	Shorted
J1-49	MODE_1	—	—	
J1-51	GND	—	—	Shorted
J1-52	MODE_DCE	—	—	

1. Any pin not referenced is not connected.

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

EIA/TIA-232

Figure D-3 shows the EIA/TIA-232 cable assembly; Table D-9 lists the DTE pinout; and Table D-10 lists the DCE pinout. Arrows indicate signal direction: —> indicates DTE to DCE, and <— indicates DCE to DTE.

Figure D-3 EIA/TIA-232 Cable Assembly

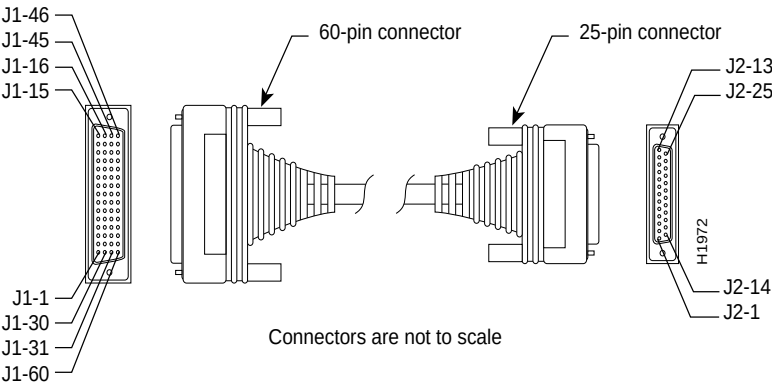


Table D-9 EIA/TIA-232 DTE Cable Pinout (DB-60 to DB-25)

60 Pin ¹	Signal	Description	Direction	25 Pin	Signal
J1-50 J1-51 J1-52	MODE_0 GND MODE_DCE	Shorting group	—	—	—
J1-46	Shield GND	Single	—	J2-1	Shield GND
J1-41 Shield	TxD/RxD —	Twisted pair no. 5	—> —	J2-2 Shield	TxD —
J1-36 Shield	RxD/TxD —	Twisted pair no. 9	<— —	J2-3 Shield	RxD —
J1-42 Shield	RTS/CTS —	Twisted pair no. 4	—> —	J2-4 Shield	RTS —

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	25 Pin	Signal
J1-35 Shield	CTS/RTS –	Twisted pair no. 10	<— –	J2-5 Shield	CTS –
J1-34 Shield	DSR/DTR –	Twisted pair no. 11	<— –	J2-6 Shield	DSR –
J1-45 Shield	Circuit GND –	Twisted pair no. 1	– –	J2-7 Shield	Circuit GND –
J1-33 Shield	DCD/LL –	Twisted pair no. 12	<— –	J2-8 Shield	DCD –
J1-37 Shield	TxC/NIL –	Twisted pair no. 8	<— –	J2-15 Shield	TxC –
J1-38 Shield	RxC/TxCE –	Twisted pair no. 7	<— –	J2-17 Shield	RxC –
J1-44 Shield	LL/DCD –	Twisted pair no. 2	—> –	J2-18 Shield	LTST –
J1-43 Shield	DTR/DSR –	Twisted pair no. 3	—> –	J2-20 Shield	DTR –
J1-39 Shield	TxCE/TxC –	Twisted pair no. 6	—> –	J2-24 Shield	TxCE –

1. Any pin not referenced is not connected.

Table D-10 EIA/TIA-232 DCE Cable Pinout (DB-60 to DB-25)

60 Pin ¹	Signal	Description	Direction	25 Pin	Signal
J1-50 J1-51	MODE_0 GND	Shorting group	–	–	–
J1-46	Shield GND	Single	–	J2-1	Shield GND
J1-36 Shield	RxD/TxD –	Twisted pair no. 9	<— –	J2-2 Shield	TxD –
J1-41 Shield	TxD/RxD –	Twisted pair no. 5	—> –	J2-3 Shield	RxD –

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	25 Pin	Signal
J1-35 Shield	CTS/RTS –	Twisted pair no. 10	<— –	J2-4 Shield	RTS –
J1-42 Shield	RTS/CTS –	Twisted pair no. 4	—> –	J2-5 Shield	CTS –
J1-43 Shield	DTR/DSR –	Twisted pair no. 3	—> –	J2-6 Shield	DSR –
J1-45 Shield	Circuit GND –	Twisted pair no. 1	– –	J2-7 Shield	Circuit GND
J1-44 Shield	LL/DCD –	Twisted pair no. 2	—> –	J2-8 Shield	DCD –
J1-39 Shield	TxCE/TxC –	Twisted pair no. 7	—> –	J2-15 Shield	TxC –
J1-40 Shield	NIL/RxC –	Twisted pair no. 6	—> –	J2-17 Shield	RxC –
J1-33 Shield	DCD/LL –	Twisted pair no. 12	<— –	J2-18 Shield	LTST –
J1-34 Shield	DSR/DTR –	Twisted pair no. 11	<— –	J2-20 Shield	DTR –
J1-38 Shield	RxC/TxCE –	Twisted pair no. 8	<— –	J2-24 Shield	TxCE –

1. Any pin not referenced is not connected.

EIA/TIA-449

Figure D-4 shows the EIA/TIA-449 cable assembly; Table D-11 lists the DTE pinout, and Table D-12 lists the DCE pinout. Arrows indicate signal direction: —> indicates DTE to DCE, and <— indicates DCE to DTE.

Figure D-4 EIA/TIA-449 Cable Assembly

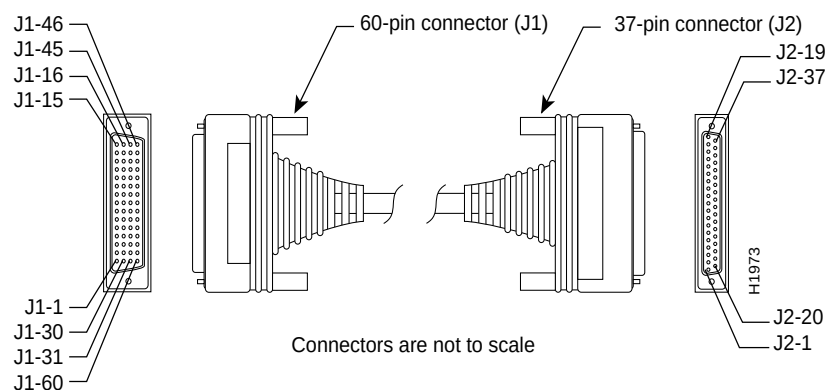


Table D-11 EIA/TIA-449 DTE Cable Pinout (DB-60 to DB-37)

60 Pin ¹	Signal	Description	Direction	37 Pin	Signal
J1-49 J1-48	MODE_1 GND	Shorting group	—	—	—
J1-51 J1-52	GND MODE_DCE	Shorting group	—	—	—
J1-46	Shield_GND	Single	—	J2-1	Shield GND
J1-11 J1-12	TxD/RxD+ TxD/RxD—	Twisted pair no. 6	—> —>	J2-4 J2-22	SD+ SD—
J1-24 J1-23	TxC/RxC+ TxC/RxC—	Twisted pair no. 9	<— <—	J2-5 J2-23	ST+ ST—

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	37 Pin	Signal
J1-28	RxD/TxD+	Twisted pair no. 11	<—	J2-6	RD+
J1-27	RxD/TxD—		<—	J2-24	RD—
J1-9	RTS/CTS+	Twisted pair no. 5	—>	J2-7	RS+
J1-10	RTS/CTS—		—>	J2-25	RS—
J1-26	RxC/TxCE+	Twisted pair no. 10	<—	J2-8	RT+
J1-25	RxC/TxCE—		<—	J2-26	RT—
J1-1	CTS/RTS+	Twisted pair no. 1	<—	J2-9	CS+
J1-2	CTS/RTS—		<—	J2-27	CS—
J1-44	LL/DCD	Twisted pair no. 12	—>	J2-10	LL
J1-45	Circuit_GND		—	J2-37	SC
J1-3	DSR/DTR+	Twisted pair no. 2	<—	J2-11	DM+
J1-4	DSR/DTR—		<—	J2-29	DM—
J1-7	DTR/DSR+	Twisted pair no. 4	—>	J2-12	TR+
J1-8	DTR/DSR—		—>	J2-30	TR—
J1-5	DCD/DCD+	Twisted pair no. 3	<—	J2-13	RR+
J1-6	DCD/DCD—		<—	J2-31	RR—
J1-13	TxCE/TxC+	Twisted pair no. 7	—>	J2-17	TT+
J1-14	TxCE/TxC—		—>	J2-35	TT—
J1-15	Circuit_GND	Twisted pair no. 9	—	J2-19	SG
J1-16	Circuit_GND		—	J2-20	RC

1. Any pin not referenced is not connected.

Table D-12 EIA/TIA-449 DCE Cable Pinout (DB-60 to DB-37)

60 Pin ¹	Signal	Description	Direction	37 Pin	Signal
J1-49	MODE_1	Shorting group	—	—	—
J1-48	GND				
J1-46	Shield_GND	Single	—	J2-1	Shield GND
J1-28	RxD/TxD+	Twisted pair no. 11	<—	J2-4	SD+
J1-27	RxD/TxD—		<—	J2-22	SD—

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	37 Pin	Signal
J1-13	TxCE/TxC+	Twisted pair no. 7	—>	J2-5	ST+
J1-14	TxCE/TxC–		—>	J2-23	ST–
J1-11	TxD/RxD+	Twisted pair no. 6	—>	J2-6	RD+
J1-12	TxD/RxD–		—>	J2-24	RD–
J1-1	CTS/RTS+	Twisted pair no. 1	<—	J2-7	RS+
J1-2	CTS/RTS–		<—	J2-25	RS–
J1-24	TxC/RxC+	Twisted pair no. 9	—>	J2-8	RT+
J1-23	TxC/RxC–		—>	J2-26	RT–
J1-9	RTS/CTS+	Twisted pair no. 5	—>	J2-9	CS+
J1-10	RTS/CTS–		—>	J2-27	CS–
J1-29	NIL/LL	Twisted pair no. 12	—>	J2-10	LL
J1-30	Circuit_GND		–	J2-37	SC
J1-7	DTR/DSR+	Twisted pair no. 4	—>	J2-11	DM+
J1-8	DTR/DSR–		—>	J2-29	DM–
J1-3	DSR/DTR+	Twisted pair no. 2	<—	J2-12	TR+
J1-4	DSR/DTR–		<—	J2-30	TR–
J1-5	DCD/DCD+	Twisted pair no. 3	—>	J2-13	RR+
J1-6	DCD/DCD–		—>	J2-31	RR–
J1-26	RxC/TxCE+	Twisted pair no. 10	<—	J2-17	TT+
J1-25	RxC/TxCE–		<—	J2-35	TT–
J1-15	Circuit_GND	Twisted pair no. 8	–	J2-19	SG
J1-16	Circuit_GND		–	J2-20	RC

1. Any pin not referenced is not connected.

V.35

Figure D-5 shows the V.35 cable assembly; Table D-13 lists the DTE pinout, and Table D-14 lists the DCE pinout. Arrows indicate signal direction: —> indicates DTE to DCE, and <— indicates DCE to DTE.

Figure D-5 V.35 Cable Assembly

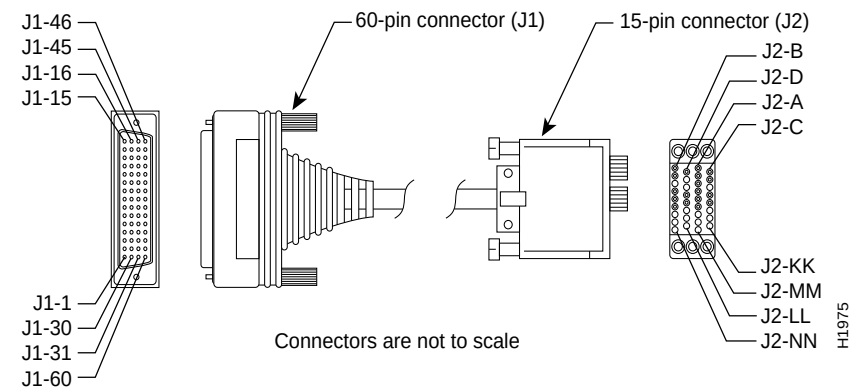


Table D-13 V.35 DTE Cable Pinout (DB-60 to 34-Pin)

60 Pin ¹	Signal	Description	Direction	34 Pin	Signal
J1-49 J1-48	MODE_1 GND	Shorting group	—	—	—
J1-50 J1-51 J1-52	MODE_0 GND MODE_DCE	Shorting group	—	—	—
J1-53 J1-54 J1-55 J1-56	TxC/NIL RxC_TxCE RxD/TxD GND	Shorting group	—	—	—
J1-46	Shield_GND	Single	—	J2-A	Frame GND

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	34 Pin	Signal
J1-45 Shield	Circuit_GND –	Twisted pair no. 12	– –	J2-B Shield	Circuit GND –
J1-42 Shield	RTS/CTS –	Twisted pair no. 9	—> –	J2-C Shield	RTS –
J1-35 Shield	CTS/RTS –	Twisted pair no. 8	<— –	J2-D Shield	CTS –
J1-34 Shield	DSR/DTR –	Twisted pair no. 7	<— –	J2-E Shield	DSR –
J1-33 Shield	DCD/LL –	Twisted pair no. 6	<— –	J2-F Shield	RLSD –
J1-43 Shield	DTR/DSR –	Twisted pair no. 10	—> –	J2-H Shield	DTR –
J1-44 Shield	LL/DCD –	Twisted pair no. 11	—> –	J2-K Shield	LT –
J1-18 J1-17	TxD/RxD+ TxD/RxD–	Twisted pair no. 1	—> —>	J2-P J2-S	SD+ SD–
J1-28 J1-27	RxD/TxD+ RxD/TxD–	Twisted pair no. 5	<— <—	J2-R J2-T	RD+ RD–
J1-20 J1-19	TxCE/TxC+ TxCE/TxC–	Twisted pair no. 2	—> —>	J2-U J2-W	SCTE+ SCTE–
J1-26 J1-25	RxC/TxCE+ RxC/TxCE–	Twisted pair no. 4	<— <—	J2-V J2-X	SCR+ SCR–
J1-24 J1-23	TxC/RxC+ TxC/RxC–	Twisted pair no. 3	<— <—	J2-Y J2-AA	SCT+ SCT–

1. Any pin not referenced is not connected.

Table D-14 V.35 DCE Cable Pinout (DB-60 to 34-Pin)

60 Pin ¹	Signal	Description	Direction	34 Pin	Signal
J1-49 J1-48	MODE_1 GND	Shorting group	—	—	—
J1-50 J1-51	MODE_0 GND	Shorting group	—	—	—
J1-53 J1-54 J1-55 J1-56	TxC/NIL RxC_TxCE RxD/TxD GND	Shorting group	—	—	—
J1-46	Shield_GND	Single	—	J2-A	Frame GND
J1-45 Shield	Circuit_GND —	Twisted pair no. 12	— —	J2-B Shield	Circuit GND —
J1-35 Shield	CTS/RTS —	Twisted pair no. 8	<— —	J2-C Shield	RTS —
J1-42 Shield	RTS/CTS —	Twisted pair no. 9	—> —	J2-D Shield	CTS —
J1-43 Shield	DTR/DSR —	Twisted pair no. 10	—> —	J2-E Shield	DSR —
J1-44 Shield	LL/DCD —	Twisted pair no. 11	—> —	J2-F Shield	RLSD —
J1-34 Shield	DSR/DTR —	Twisted pair no. 7	<— —	J2-H Shield	DTR —
J1-33 Shield	DCD/LL —	Twisted pair no. 6	<— —	J2-K Shield	LT —
J1-28 J1-27	RxD/TxD+ RxD/TxD—	Twisted pair no. 5	<— <—	J2-P J2-S	SD+ SD—
J1-18 J1-17	TxD/RxD+ TxD/RxD—	Twisted pair no. 1	—> —>	J2-R J2-T	RD+ RD—
J1-26 J1-25	RxC/TxCE+ RxC/TxCE—	Twisted pair no. 4	<— <—	J2-U J2-W	SCTE+ SCTE—
J1-22 J1-21	NIL/RxC+ NIL/RxC—	Twisted pair no. 3	—> —>	J2-V J2-X	SCR+ SCR—

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	34 Pin	Signal
J1-20	TxCE/TxC+	Twisted pair no. 2	—>	J2-Y	SCT+
J1-19	TxCE/TxC-		—>	J2-AA	SCT-

1. Any pin not referenced is not connected.

X.21

Figure D-6 shows the X.21 cable assembly; Table D-15 lists the DTE pinout, and Table D-16 lists the DCE pinout. Arrows indicate signal direction: —> indicates DTE to DCE, and <— indicates DCE to DTE.

Figure D-6 X.21 Cable Assembly

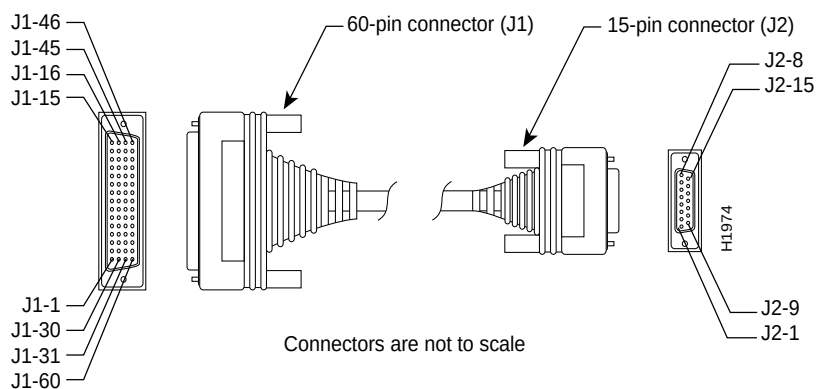


Table D-15 X.21 DTE Cable Pinout (DB-60 to DB-15)

60 Pin ¹	Signal	Description	Direction	15 Pin	Signal
J1-48	GND	Shorting group	—	—	—
J1-47	MODE_2				
J1-51	GND	Shorting group	—	—	—
J1-52	MODE_DCE				

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	15 Pin	Signal
J1-46	Shield_GND	Single	—	J2-1	Shield GND
J1-11	TxD/RxD+	Twisted pair no. 3	—>	J2-2	Transmit+
J1-12	TxD/RxD—		—>	J2-9	Transmit—
J1-9	RTS/CTS+	Twisted pair no. 2	—>	J2-3	Control+
J1-10	RTS/CTS—		—>	J2-10	Control—
J1-28	RxD/TxD+	Twisted pair no. 6	<—	J2-4	Receive+
J1-27	RxD/TxD—		<—	J2-11	Receive—
J1-1	CTS/RTS+	Twisted pair no. 1	<—	J2-5	Indication+
J1-2	CTS/RTS—		<—	J2-12	Indication—
J1-26	RxC/TxCE+	Twisted pair no. 5	<—	J2-6	Timing+
J1-25	RxC/TxCE—		<—	J2-13	Timing—
J1-15	Control_GND	Twisted pair no. 4	—	J2-8	Control GND
Shield	—		—	Shield	—

1. Any pin not referenced is not connected.

Table D-16 X.21 DCE Cable Pinout (DB-60 to DB-15)

60 Pin ¹	Signal	Description	Direction	15 Pin	Signal
J1-48	GND	Shorting group	—	—	—
J1-47	MODE_2				
J1-46	Shield_GND	Single	—	J2-1	Shield GND
J1-28	RxD/TxD+	Twisted pair no. 6	<—	J2-2	Transmit+
J1-27	RxD/TxD—		<—	J2-9	Transmit—
J1-1	CTS/RTS+	Twisted pair no. 1	<—	J2-3	Control+
J1-2	CTS/RTS—		<—	J2-10	Control—
J1-11	TxD/RxD+	Twisted pair no. 3	—>	J2-4	Receive+
J1-12	TxD/RxD—		—>	J2-11	Receive—
J1-9	RTS/CTS+	Twisted pair no. 2	—>	J2-5	Indication+
J1-10	RTS/CTS—		—>	J2-12	Indication—

Serial Cable Assemblies and Pinouts

60 Pin ¹	Signal	Description	Direction	15 Pin	Signal
J1-24	TxC/RxC+	Twisted pair no. 4	—>	J2-6	Timing+
J1-23	TxC/RxC-		—>	J2-13	Timing-
J1-15	Control_GND	Twisted pair no. 5	-	J2-8	Control GND
Shield	-		-	Shield	-

1. Any pin not referenced is not connected.