

Cable Specifications and Information

This appendix provides the connector and pinout information you need for making or purchasing cables used with Cisco VG400 Voice Gateway. To order cables from Cisco, see the *Obtaining Technical Assistance* section. This appendix contains the following sections:

- Console and Auxiliary Port Cables and Pinouts, on page 1
- Gigabit Ethernet Port Pinouts (RJ-45), on page 5

Console and Auxiliary Port Cables and Pinouts

Your Cisco VG400 Voice Gateway comes with the cable and adapters you need to connect a PC, an ASCII terminal, or a modem to your Cisco VG400 Voice Gateway. The cable kit includes:

- RJ-45-to-RJ-45 rollover cable
- RJ-45-to-DB-9 adapter cable for console connection
- RJ-45-to-DB-25 adapter cable for modem connection

The following illustrations and tables provide cable pinout information:

- Console port to a PC—See Table A-1 and A-4
- Console port to an ASCII terminal—See Table A-2 and Table A-4
- Auxiliary port to a modem—See Table A-3 and Table A-4

The console port is configured as data communications equipment (DCE); the auxiliary port is configured as data terminal equipment (DTE). Both are asynchronous serial ports and use RJ-45 connectors.

Console Port to PC

Figure A-1 shows the RJ-45-to-RJ-45 rollover cable assembly and the RJ-45-to-DB-9 female DTE adapter (labeled TERMINAL); Table A-1 lists the pinouts.

Figure 1: Console Port to PC—Cable and Adapter

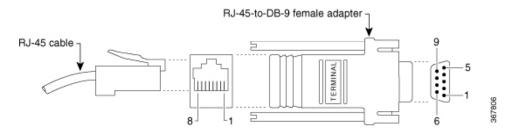


Table 1: Console Port to PC—Cable Pinouts (RJ-45 to DB-9)

Console Port (DCE, RJ-45)		RJ-45-to-DB-9 Adapter "TERMINAL"	PC Port (DTE, DB-9)		
Signal	RJ-45 Pin	RJ-45 Pin	RJ-45 Pin	DB-9 Pin	Signal
RTS	1 ¹	8	8	8	CTS
DTR	2	7	7	6	DSR
TxD	3	6	6	2	RxD
GND	4	5	5	5	GND
GND	5	4	4	5	GND
RxD	6	3	3	3	TxD
DSR	7	2	2	4	DTR
CTS	81	1	1	7	RTS

 $^{^{1}\,}$ Pin 1 is connected to pin 8 inside the Cisco VG450 Voice Gateway.

Console Port to ASCII Terminal

Figure A-2 shows the RJ-45-to-RJ-45 rollover cable assembly and the RJ-45-to-DB-25 female DTE adapter (labeled TERMINAL); Table A-2 lists the pinouts.

Figure 2: Console Port to ASCII Terminal—Cable and Adapter

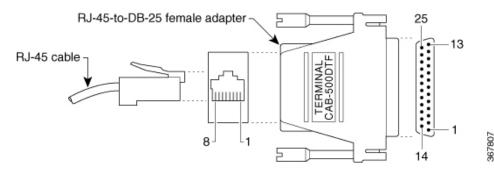


Table 2: Console Port to ASCII Terminal—Cable Pinouts (RJ-45 to DB-25)

Console Port (DCE, RJ-45)	Rollover	RJ-45-to-DB-25 Adapter "TERMINAL"	Terminal Port (DTE, DB-25)		
Signal	RJ-45 Pin	RJ-45 Pin	RJ-45 Pin	DB-25 Pin	Signal
RTS	12	8	8	5	CTS
DTR	2	7	7	6	DSR
TxD	3	6	6	3	RxD
GND	4	5	5	7	GND
GND	5	4	4	7	GND
RxD	6	3	3	2	TxD
DSR	7	2	2	20	DTR
CTS	81	1	1	4	RTS

 $^{^{2}\,\,}$ Pin 1 is connected to pin 8 inside the Cisco VG400 Voice Gateway.

Auxiliary Port to Modem

Figure A-3 shows the RJ-45-to-RJ-45 rollover cable assembly and the RJ-45-to-DB-25 male DCE adapter (labeled MODEM); Table A-3 lists the pinouts.

Figure 3: Auxiliary Port to Modem—Cable and Adapter

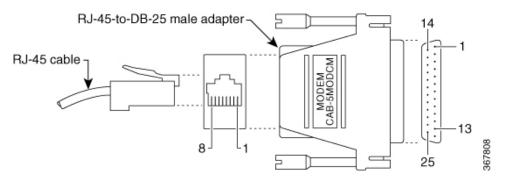


Table 3: Auxiliary Port to Modem—Cable Pinouts (RJ-45 to DB-25)

Auxiliary Port (DTE, RJ-45)	RJ-45-to-RJ-45 Rollover Cable	RJ-45-to-DB-25 Adapter "MODEM"	Modem Port (DCE, DB-25)		
Signal	RJ-45 Pin	RJ-45 Pin	RJ-45 Pin	DB-25 Pin	Signal
RTS	1	8	8	4	RTS
DTR	2	7	7	20	DTR
TxD	3	6	6	2	TxD
GND	4	5	5	7	GND
GND	5	4	4	7	GND
RxD	6	3	3	3	RxD
DSR	7	2	2	8	DCD
CTS	8	1	1	5	CTS

Alternative Connections to Terminal and Modem

Your Cisco VG400 Voice Gateway ships with an RJ-45-to-RJ-45 rollover cable and two adapters for connection to a PC, a terminal, or a modem. If you want to use an RJ-45 straight-through cable or other adapters, see Table A-4 for usable cable and adapter combinations.

Table 4: Alternative Terminal and Modem Connections

Cisco VG400 Port Connection	RJ-45 Type Cable	Adapter
Console port to PC	Straight-through	DCE, DB-9 female
Auxiliary port to modem	Rollover ³	DCE ⁴ , DB-25, male
	Straight-through	DTE2, DB-25, male

- An octal cable or RJ-45 breakout cable is equivalent to a rollover cable.
 Modify the DB-25 adapter by removing the wire in pin 6 and placing it in the pin 8 position.

Gigabit Ethernet Port Pinouts (RJ-45)

Figure A-4 shows the RJ-45 connector wiring for the Gigabit Ethernet cable; Table A-4 lists the pinouts.



Note

Pinout shown is for category 3, 4, or 5 10/100BASE-T connection to an Gigabit Ethernet switch.

Figure 4: RJ-45 Connector Wiring

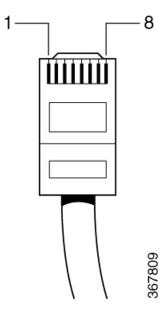


Table 5: Gigabit Ethernet Port Pinouts (RJ-45)

Pin ⁵	Signal
1	TX+
2	TX-
3	RX+
4	_
5	_
6	RX-
7	_
8	_

⁵ Any pin not referenced is not connected.