Connector and Cable Specifications

This section describes the Catalyst 4224 Access Gateway Switch ports and the cables and adapters used to connect the switch to other devices.

This section includes the following topics:

- Console Connector Pinouts, page B-1
- Management Port Pinouts, page B-2
- Eight-Port RJ21 FXS Module Connector Pinouts, page B-3
- Cable and Adapter Specifications, page B-4

Console Connector Pinouts

Table B-1 lists the console connector pinouts.

Table B-1 Console Serial Port Pinouts—RJ-45

Pin	Signal	Direction	Description
1	RTS	output	Request to send
2	DTR	output	Data terminal ready
3	TXD	output	Transmit data
4	Ground		
5	Ground		
6	RXD	input	Receive data

Table B-1 Console Serial Port Pinouts—RJ-45 (continued)

Pin	Signal	Direction	Description
7	DSR	input	Data set ready
8	CTS	input	Clear to send

Management Port Pinouts

Table B-2 lists the management port pinouts.

Table B-2 Management Port Pinouts—RJ-45

Pin	Signal	Direction	Description
1	RXD+	input	Receive data diff[1] pair
2	RXD-	input	Receive data diff pair
3	TXD+	output	Transmit data diff pair
4	Ground		Unused pair
5	Ground		Unused pair
6	TXD-	output	Transmit data diff pair
7			Unused pair
8			Unused pair

1. Differential. There exists a positive and negative copy of the signal with a set impedance.

Eight-Port RJ21 FXS Module Connector Pinouts

Table B-3 lists the port and pin numbers on the RJ-21 pinout for the eight-port FXS module connector.

Table B-3 RJ-21 Pinout for the Eight-Port RJ21 FXS Module Connector

Port Number	Connector Pin Number	Signal
0	0 25	Ring Tip
1	1 26	Ring Tip
2	2 27	Ring Tip
3	3 28	Ring Tip
4	4 29	Ring Tip
5	5 30	Ring Tip
6	6 31	Ring Tip
7	7 32	Ring Tip
8 - 15	8 - 15 33 - 40	Not Used
16 - 24	16 - 24 41 - 49	GND

Cable and Adapter Specifications

This section contains the following topics:

- Crossover and Straight-Through Cable Pinouts, page B-4
- Rollover Cable and Adapter Pinouts, page B-5

Crossover and Straight-Through Cable Pinouts

The schematics of crossover and straight-through cables are shown in Figure B-1 and Figure B-2.

Figure B-1 Crossover Cable Schematic

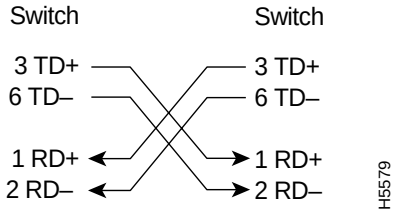
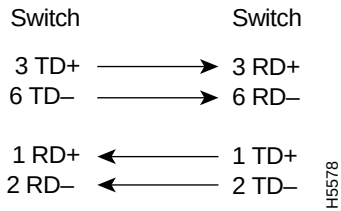


Figure B-2 Straight-Through Cable Schematic



Rollover Cable and Adapter Pinouts

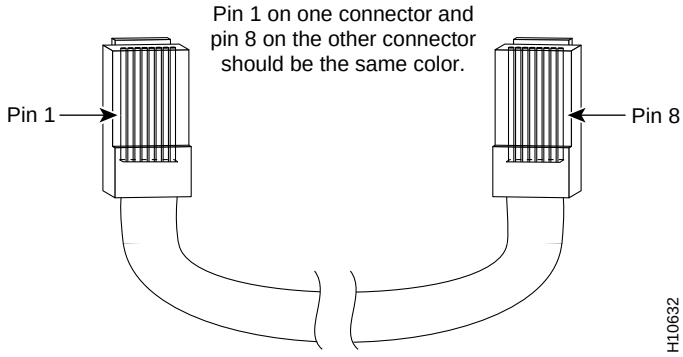
This section contains the following topics:

- Identifying a Rollover Cable, page B-5
- Connecting to a PC, page B-6
- Connecting to a Terminal, page B-6

Identifying a Rollover Cable

To identify a rollover cable, compare the two modular ends of the cable. Hold the cable ends side by side, with the tab at the back. The wire connected to the pin on the outside of the left plug should be the same color as the wire connected to the pin on the outside of the right plug (see Figure B-3).

Figure B-3 Identifying a Rollover Cable



Connecting to a PC

Use the supplied thin, flat, RJ-45-to-RJ-45 rollover cable and RJ-45-to-DB-9 female DTE adapter to connect the console port to a PC running terminal-emulation software. Table B-4 lists the pinouts for the console port, the RJ-45-to-RJ-45 rollover cable, and the RJ-45-to-DB-9 female DTE adapter.

Table B-4 Console Port Signaling and Cabling Using a DB-9 Adapter

Console Port (DTE)	RJ-45-to-RJ-45 Rollover Cable		RJ-45-to-DB-9 Terminal Adapter	Console Device
Signal	RJ-45 Pin	RJ-45 Pin	DB-9 Pin	Signal
RTS	1	8	8	CTS
Not connected	2	7	6	DSR
TxD	3	6	2	RxD
GND	4	5	5	GND
GND	5	4	5	GND
RxD	6	3	3	TxD
Not connected	7	2	4	DTR
CTS	8	1	7	RTS

Connecting to a Terminal

Use the thin, flat, RJ-45-to-RJ-45 rollover cable and RJ-45-to-DB-25 female DTE adapter to connect the console port to a terminal. Table B-5 lists the pinouts for the console port, the RJ-45-to-RJ-45 rollover cable, and the RJ-45-to-DB-25 female DTE adapter.

Note The RJ-45-to-DB-25 female DTE adapter is not supplied with the switch. You can order a kit (part number ACS-DSBUASYN=) containing this adapter from Cisco.

Table B-5 Console Port Signaling and Cabling Using a DB-25 Adapter

Console Port (DTE)	RJ-45-to-RJ-45 Rollover Cable		RJ-45-to-DB-25 Terminal Adapter	Console Device
Signal	**RJ-45 Pin**	**RJ-45 Pin**	**DB-25 Pin**	**Signal**
RTS	1	8	5	CTS
DTF	2	7	6	DSR
TxD	3	6	3	RxD
GND	4	5	7	GND
GND	5	4	7	GND
RxD	6	3	2	TxD
DTF	7	2	20	DTR
CTS	8	1	4	RTS