



Connector and Cable Specifications

This appendix describes the Catalyst 3550 switch ports and the cables and adapters that you use to connect the switch to other devices.

Connector Specifications

These sections describe the connectors used with the Catalyst 3550 switches.

10/100 and 10/100 /1000 Ports

The 10/100 and 10/100/1000 Ethernet ports on Catalyst 3550 switches use standard RJ-45 connectors and Ethernet pinouts with internal crossovers. [Figure B-2](#) and [Figure B-1](#) show the pinouts.

Figure B-1 10/100 Port Pinouts

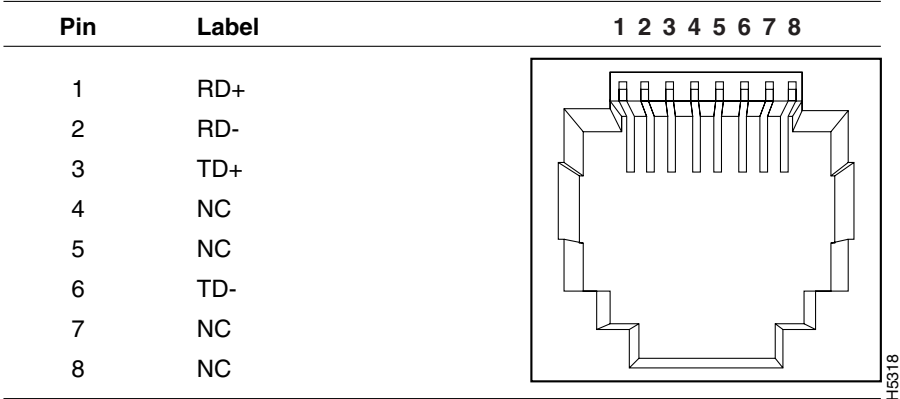
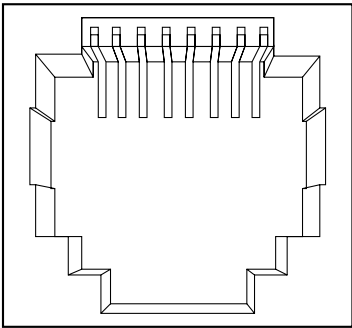


Figure B-2 10/100/1000 Port Pinouts

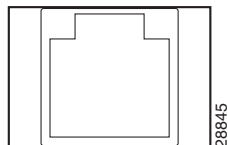
Pin	Label	1 2 3 4 5 6 7 8
1	TP0+	
2	TP0-	
3	TP1+	
4	TP2+	
5	TP2-	
6	TP1-	
7	TP3+	
8	TP3-	

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100BASE-FX Ports

The 100BASE-FX ports use MT-RJ connectors, as shown in [Figure B-3](#). The 100BASE-FX ports use 50/125- or 62.5/125-micron multimode fiber-optic cabling.

You can connect a 100BASE-FX port to an SC or ST port on a target device by using one of the MT-RJ fiber-optic patch cables listed in [Table B-1](#). Use the Cisco part numbers in [Table B-1](#) to order the patch cables that you need.

Figure B-3 MT-RJ Connector

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Table B-1 MT-RJ Patch Cables for 100BASE-FX Connections

Type	Cisco Part Number
1-meter, MT-RJ-to-SC multimode cable	CAB-MTRJ-SC-MM-1M
3-meter, MT-RJ-to-SC multimode cable	CAB-MTRJ-SC-MM-3M
5-meter, MT-RJ-to-SC multimode cable	CAB-MTRJ-SC-MM-5M
1-meter, MT-RJ-to-ST multimode cable	CAB-MTRJ-ST-MM-1M
3-meter, MT-RJ-to-ST multimode cable	CAB-MTRJ-ST-MM-3M
5-meter, MT-RJ-to-ST multimode cable	CAB-MTRJ-ST-MM-5M

Console Port

The console port uses an 8-pin RJ-45 connector, described in [Table B-2](#) and [Table B-3](#). The supplied RJ-45-to-DB-9 adapter cable is used to connect the console port of the switch to a console PC. For console port and adapter pinout information, see [Table B-2](#) and [Table B-3](#).

Cable and Adapter Specifications

These sections describe the cables and adapters used with the Catalyst 3550 switches.

Two Twisted-Pair Cable Pinouts

Figure B-4 and Figure B-5 show the schematics of two twisted-pair cables for ports running 10 Mbps traffic.

Figure B-4 Two Twisted-Pair Straight-Through Cable Schematic

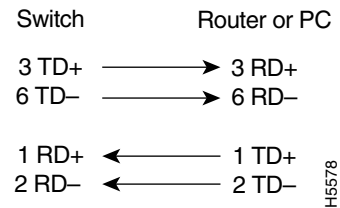
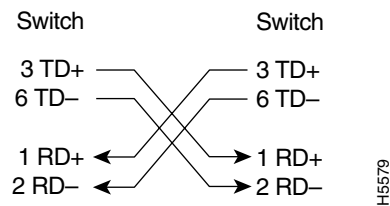


Figure B-5 Two Twisted-Pair Crossover Cable Schematic



Four Twisted-Pair Cable Pinouts for 10/100 Ports

Figure B-6 and Figure B-7 show the schematics of four twisted-pair cables for ports running 10 or 100 Mbps traffic.

For inline power connections, signal pairs are used to provide inline power. Nominally, there is 48 V between the pin pairs (1–2), and pairs (3–6) when inline power is active.

Figure B-6 Four Twisted-Pair Straight-Through Cable Schematic for 10/100 Ports

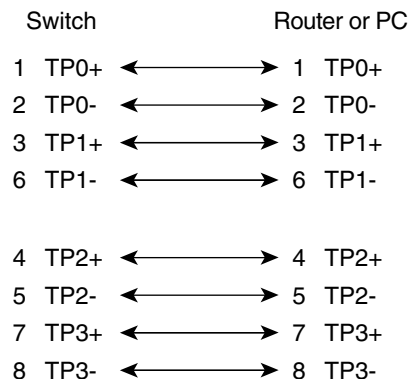
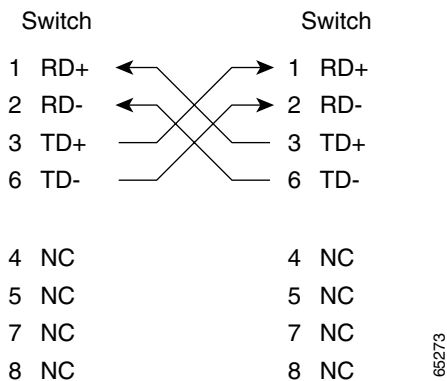


Figure B-7 Four Twisted-Pair Crossover Cable Schematic for 10/100 Ports



Four Twisted-Pair Cable Pinouts for 1000BASE-T Ports

Figure B-8 and Figure B-9 show the schematics of four twisted-pair cables for ports running 1000 Mbps traffic.

Figure B-8 Four Twisted-Pair Straight-Through Cable Schematic for 1000BASE-T Ports

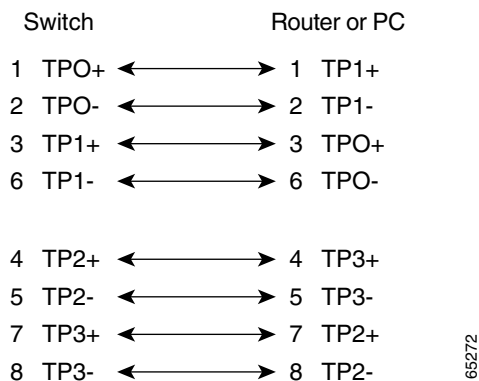
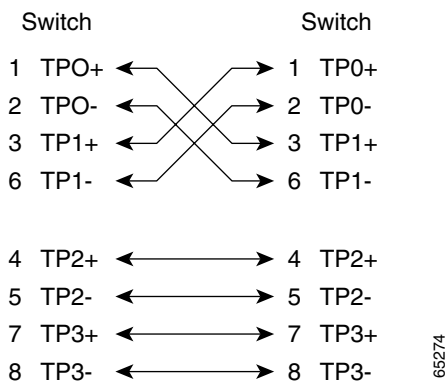


Figure B-9 Four Twisted-Pair Crossover Cable Schematics for 10/100/1000 and 1000BASE-T GBIC Module Ports



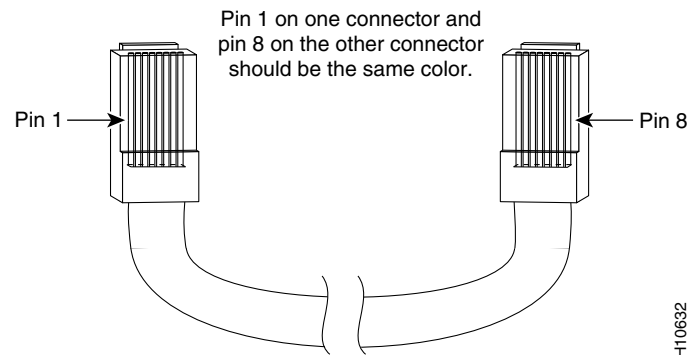
Rollover Cable and Adapter Pinouts

This section describes how to identify a rollover cable (used to connect to the console port) and also describes the adapter pinouts.

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-10](#).)

Figure B-10 Identifying a Rollover Cable



Adapter Pinouts

[Table B-2](#) lists the pinouts for the console port, the RJ-45-to-DB-9 adapter cable, and the console device.

Table B-2 Console Port Signaling Using a DB-9 Adapter

Switch Console Port (DTE)	RJ-45-to-DB-9 Terminal Adapter	Console Device
Signal	DB-9 Pin	Signal
RTS	8	CTS
DTR	6	DSR
TxD	2	RxD
GND	5	GND
GND	5	GND
RxD	3	TxD
DSR	4	DTR
CTS	7	RTS

Table B-3 lists the pinouts for the console port, RJ-45-to-DB-25 female DTE adapter, and the console device. 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-3 Console Port Signaling Using a DB-25 Adapter

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