



Connector and Cable Specifications

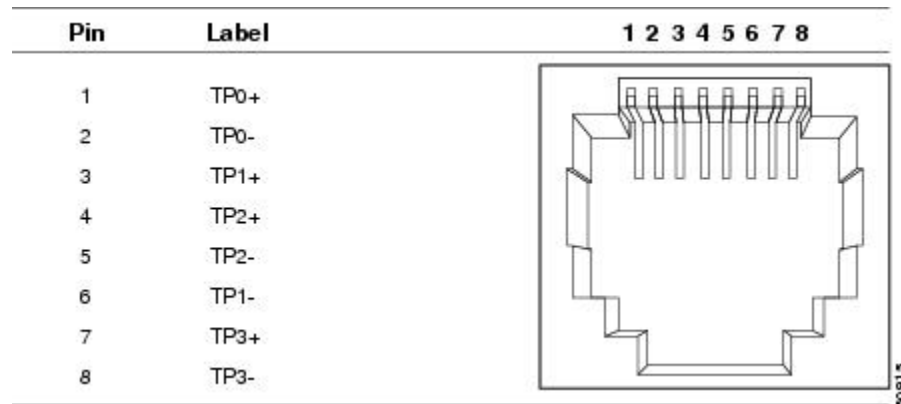
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Connector Specifications

10/100/1000 Ports (Including PoE)

All 10/100/1000 ports use standard RJ-45 connectors and Ethernet pinouts.

Figure 1: 10/100/1000 Port Pinouts



Module Connectors

Figure 2: Duplex LC Cable Connector

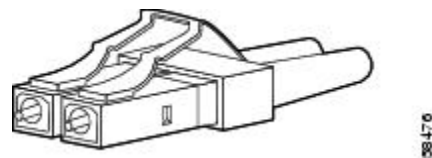


Figure 3: Simplex LC Cable Connector

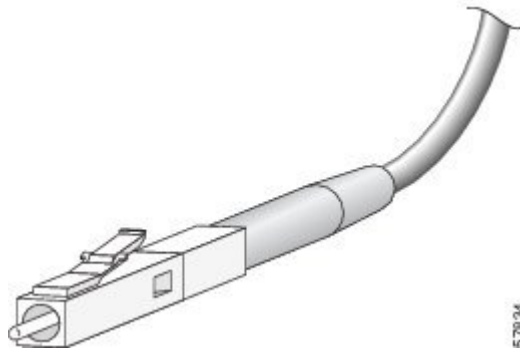


Figure 4: Copper SFP Module LC Connector

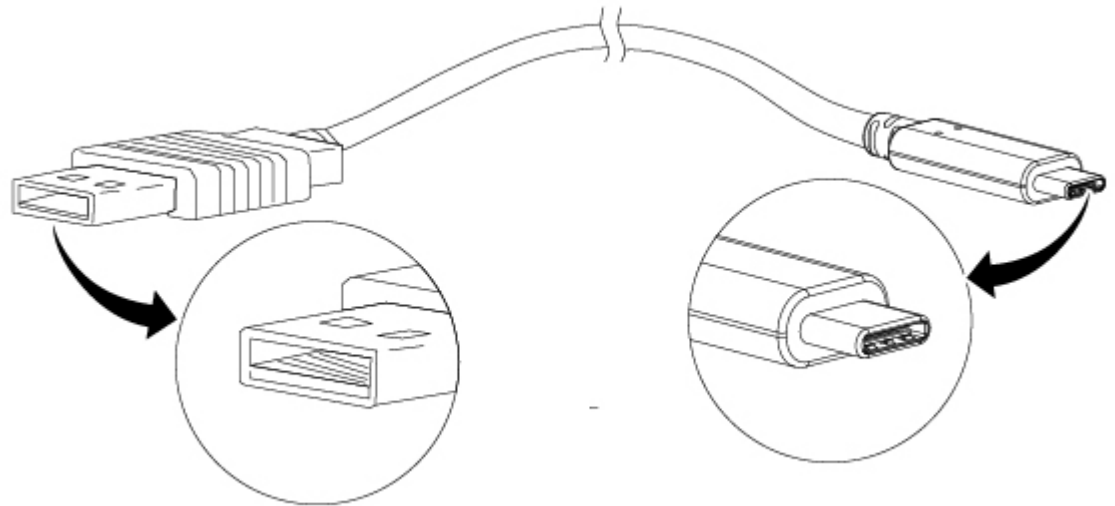
Pin	Label	1	2	3	4	5	6	7	8
1	TP0+								
2	TP0-								
3	TP1+								
4	TP2+								
5	TP2-								
6	TP1-								
7	TP3+								
8	TP3-								

Console Cables

Switch Name	Supported Console Cable
Cisco Catalyst 9500X Series Switches	USB Type A to Type C (CAB-USBC-4M-GR)

The USB console port uses a USB Type A to Type C cable. These cables are not supplied with the switch; you have to order them separately.

Figure 5: USB Type A to Type C Cable



The USB-C console port uses a USB Type A to Type C cable for console connections.

Cables and Adapters

Transceiver Module Network Cables

For cabling specifications, refer to the following notes:

- [Cisco SFP and SFP+ Transceiver Module Installation Notes](#)
- [Cisco 40-Gigabit QSFP+ Transceiver Modules Installation Note](#)

Each port must match the wavelength specifications on the other end of the cable, and the cable must not exceed the stipulated cable length. Copper 1000BASE-T SFP module transceivers use standard four twisted-pair, Category 5 cable at lengths up to 328 feet (100 meters).

Cable Pinouts

Figure 6: Four Twisted-Pair Straight-Through Cable Schematic

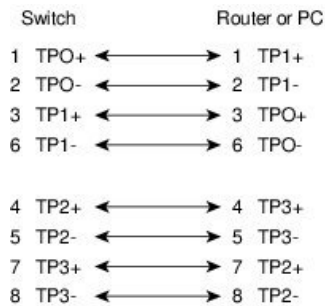


Figure 7: Four Twisted-Pair Semi-Cross Cable Schematic

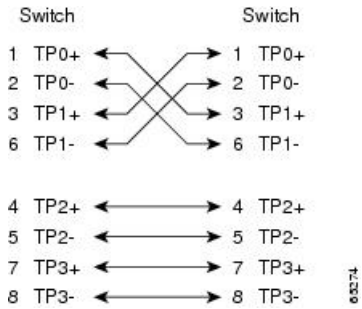


Figure 8: Two Twisted-Pair Straight-Through Cable Schematic

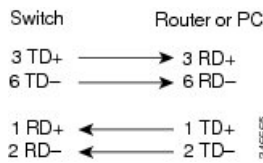
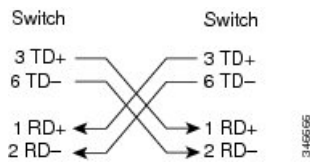


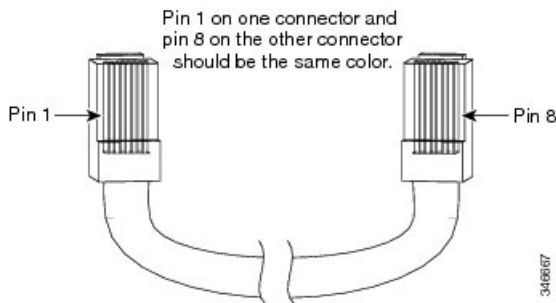
Figure 9: Two Twisted-Pair Crossover Cable Schematic



Identifying a Crossover Cable

To identify a crossover 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 a different color from the wire connected to the pin on the inside of the right plug.

Figure 10: Identifying a Crossover Cable



Console Port Adapter Pinouts

The RS-232 console port uses an 8-pin RJ-45 connector. Use an RJ-45-to-DB-9 adapter cable to connect the switch console port to a console PC. You need to provide a RJ-45-to-DB-25 female DTE adapter to connect the switch console port to a terminal.

Table 1: Console Port Signaling with a DB-9 Adapter

Switch Console Port (DTE)	RJ-45-to-DB-9 Terminal Adapter	Console Device
Signal	DB-9 Pin	Signal
TxD	2	RxD
GND	5	GND
GND	5	GND
RxD	3	TxD

Table 2: Console Port Signaling with a DB-25 Adapter

Switch Console Port (DTE)	RJ-45-to-DB-25 Terminal Adapter	Console Device
Signal	DB-25 Pin	Signal
TxD	3	RxD
GND	7	GND
GND	7	GND
RxD	2	TxD

