

Connector and Cable Specifications

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- Cables and Adapters, on page 2

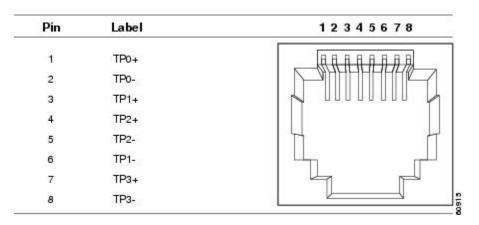
Connector Specifications

The following sections provide information about the various connectors.

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



SFP Module Connectors

Figure 2: Duplex LC Cable Connector



Figure 3: Simplex LC Cable Connector

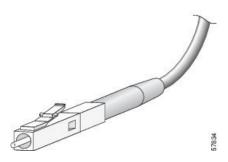
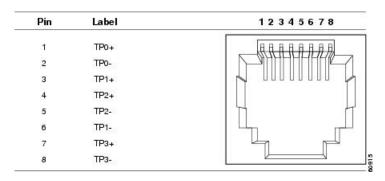


Figure 4: Copper SFP Module LC Connector



Cables and Adapters

The following sections provide information about the various cables and adapters.

Transceiver Module Network Cables

For cabling specifications, see Cisco SFP and SFP+ Transceiver Module Installation Notes.

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

Cable Pinouts

Figure 5: Four Twisted-Pair Straight-Through Cable Schematic

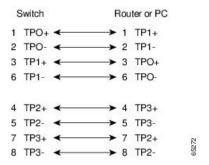


Figure 6: Four Twisted-Pair Semi-Cross Cable Schematic

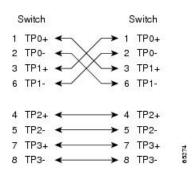


Figure 7: Two Twisted-Pair Straight-Through Cable Schematic

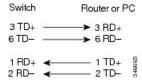
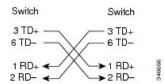


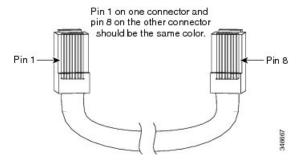
Figure 8: Two Twisted-Pair Crossover Cable Schematic



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 that is connected to the pin on the inside of the right plug.

Figure 9: 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 must 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 |
| 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 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 |
| RTS | 5 | CTS |
| DTR | 6 | DSR |
| TxD | 3 | RxD |
| GND | 7 | GND |

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

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