



# 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*

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-	

## Module Connectors

*Figure 2: Duplex LC Cable Connector*

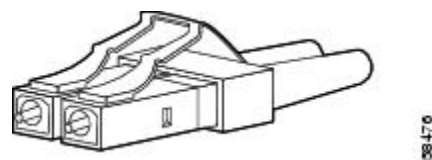


Figure 3: Simplex LC Cable Connector

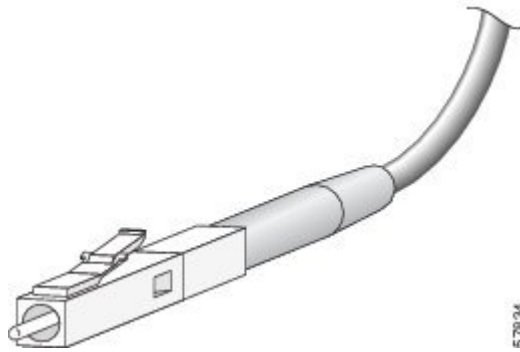


Figure 4: Copper SFP Module LC Connector

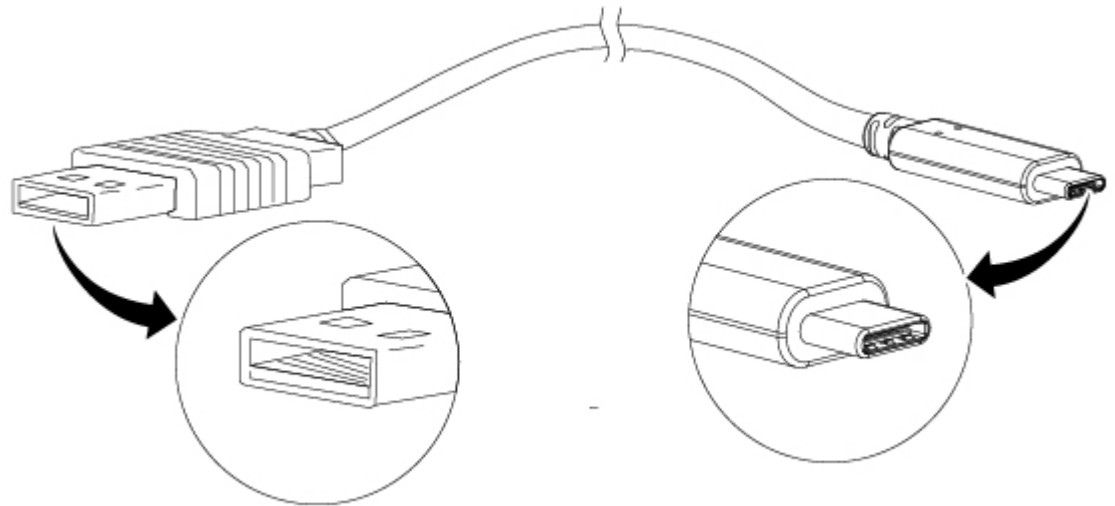
Pin	Label	1	2	3	4	5	6	7	8
1	TP0+								
2	TP0-								
3	TP1+								
4	TP2+								
5	TP2-								
6	TP1-								
7	TP3+								
8	TP3-								

## 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

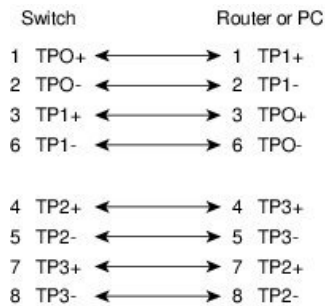
For cabling specifications, refer to the following notes:

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

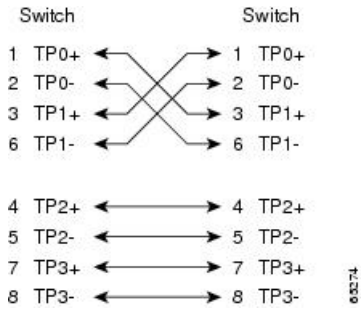
Each port must match the wavelength specifications on the other end of the cable, and the cable must not exceed the stipulated cable length. Copper 1000BASE-T SFP module transceivers use standard four twisted-pair, Category 5 cable at lengths up to 328 feet (100 meters).

### Cable Pinouts

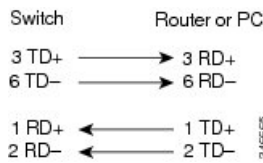
Figure 6: Four Twisted-Pair Straight-Through Cable Schematic



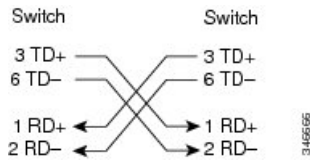
**Figure 7: Four Twisted-Pair Semi-Cross Cable Schematic**



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



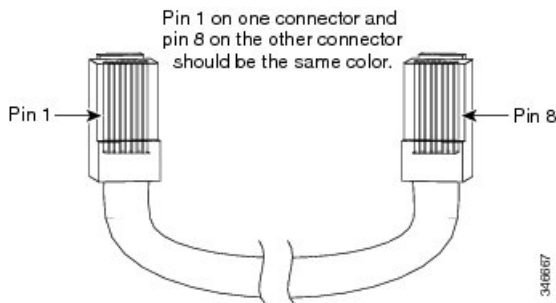
**Figure 9: Two Twisted-Pair Crossover Cable Schematic**



**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

