



# 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*

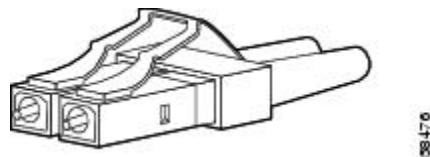
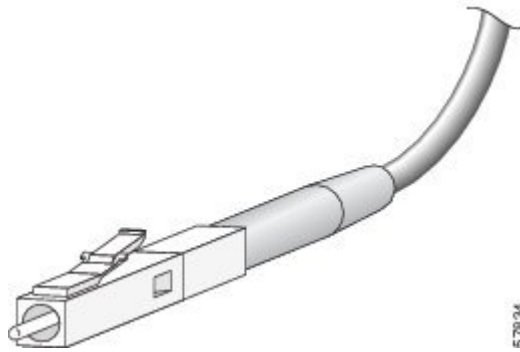


Figure 3: Simplex LC Cable Connector



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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-								

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## Cables and Adapters

### Transceiver Module Network Cables

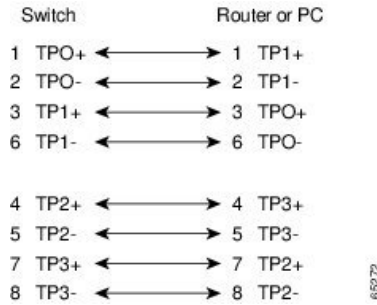
For cabling specifications, refer to the following notes:

[Cisco SFP Transceiver Module Installation Notes](#)

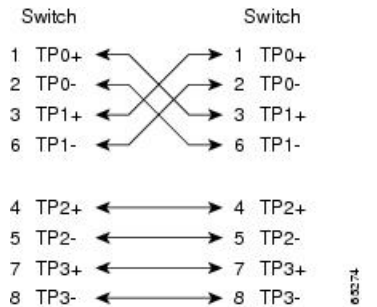
Each port must match the wavelength specifications on the other end of the cable, and the cable must not exceed the stipulated cable length. Copper 1000BASE-T SFP module transceivers use standard four twisted-pair, Category 5 cable at lengths up to 328 feet (100 meters).

# Cable Pinouts

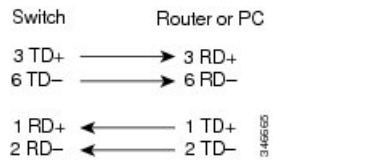
**Figure 5: Four Twisted-Pair Straight-Through Cable Schematic**



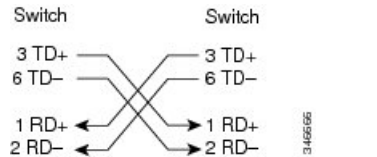
**Figure 6: Four Twisted-Pair Semi-Cross Cable Schematic**



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

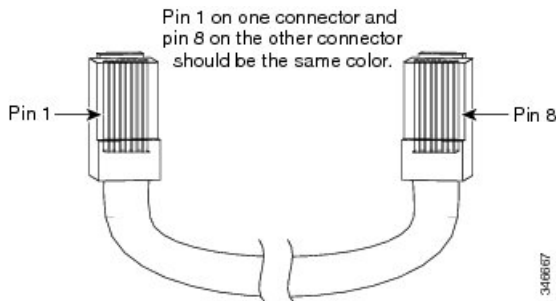


**Figure 8: Two Twisted-Pair Crossover Cable Schematic**



## 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 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 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
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

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

