



## Cable Pinouts

The appendix provides the following pinout information:

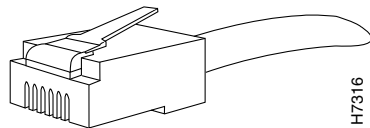
- [10BaseT and 100BaseTX Connectors, page A-1](#)
- [Console Port \(RJ-45\), page A-2](#)
- [RJ-45 to DB-9 or DB-25 Serial Cable, page A-4](#)
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## 10BaseT and 100BaseTX Connectors

The 10BaseT and 100BaseTX ports use standard RJ-45 connectors. The 10BaseT and 100BaseTX ports have their transmit (TD) and receive (RD) pairs internally crossed.

[Figure A-1](#) shows the 10BaseT and the 100BaseTX connector (RJ-45).

**Figure A-1** RJ-45 10BaseT and 100BaseTX Connector



[Table A-1](#) shows the connector pinout.

**Table A-1** 10BaseT and 100BaseTX Connector (RJ-45) Pinouts

Pin	Description
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

## Console Port (RJ-45)

Cisco products use the following three types of RJ-45 cables:

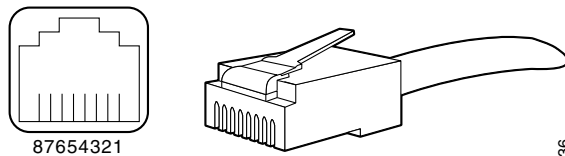
- Straight-through
- Crossover
- Rolled


**Note**

Cisco does not provide these cables; they are widely available from other sources.

Figure A-2 shows the RJ 45 cable.

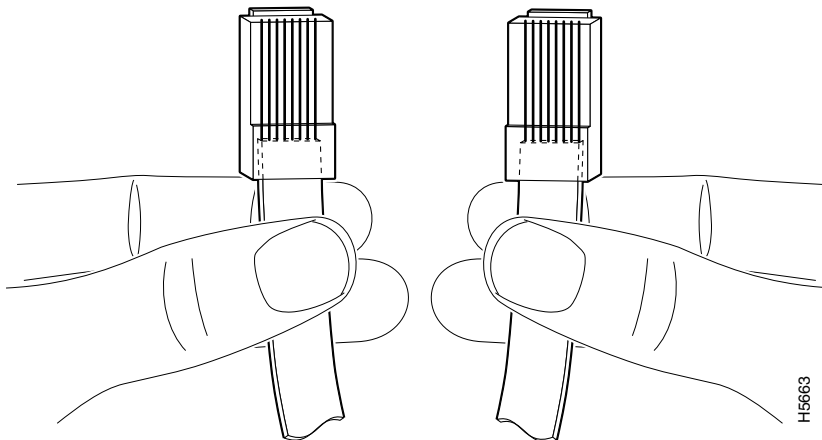
**Figure A-2 RJ-45 Cable**



RJ-45 connector

To identify the RJ-45 cable type, hold the two ends of the cable next to each other so you can see the colored wires inside the ends, as shown in Figure A-3.

**Figure A-3 RJ-45 Cable Identification**



Examine the sequence of colored wires to determine the type of RJ-45 cable, as follows:

- Straight-through—The colored wires are in the same sequence at both ends of the cable (see [Table A-2](#)).
- Crossover—The first (far left) colored wire at one end of the cable is the third colored wire at the other end of the cable (see [Table A-3](#)).
- Rolled—The colored wires at one end of the cable are in the reverse sequence of the colored wires at the other end of the cable (see [Table A-4](#)).

**Table A-2 RJ-45 Straight-Through (Ethernet) Cable Pinouts**

Signal	Pin	Pin	Pin
TX+	1	1	TX+
TX-	2	2	TX-
RX+	3	3	RX+
-	4	4	-
-	5	5	-
RX-	6	6	RX-
-	7	7	-
-	8	8	-

**Table A-3 RJ-45 Crossover (Ethernet) Cable Pinouts**

Signal	Pin	Pin	Pin
TX+	1	3	RX+
TX-	2	6	RX-
RX+	3	1	TX+
-	4	4	-
-	5	5	-
RX-	6	2	TX-
-	7	7	-
-	8	8	-

**Table A-4 RJ-45 Rolled (Console) Cable Pinouts**

Signal	Pin	Pin	Pin
-	1	8	-
-	2	7	-
-	3	6	-
-	4	5	-
-	5	4	-
-	6	3	-

**Table A-4** RJ-45 Rolled (Console) Cable Pinouts (continued)

Signal	Pin	Pin	Pin
-	7	2	-
-	8	1	-

## RJ-45 to DB-9 or DB-25 Serial Cable

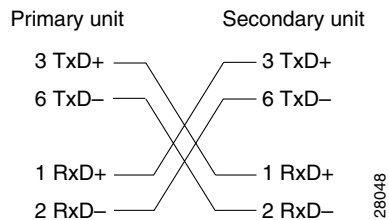
Table A-5 lists the cable pinouts for RJ-45 to DB-9 or DB-25.

**Table A-5** Cable Pinouts for RJ-45 to DB-9 or DB-25

Signal	RJ-45 Pin	DB-9 Pin	DB-25 Pin
RTS	8	8	5
DTR	7	6	6
TxD	6	2	3
GND	5	5	7
GND	4	5	7
RxD	3	3	2
DSR	2	4	20
CTS	1	7	4

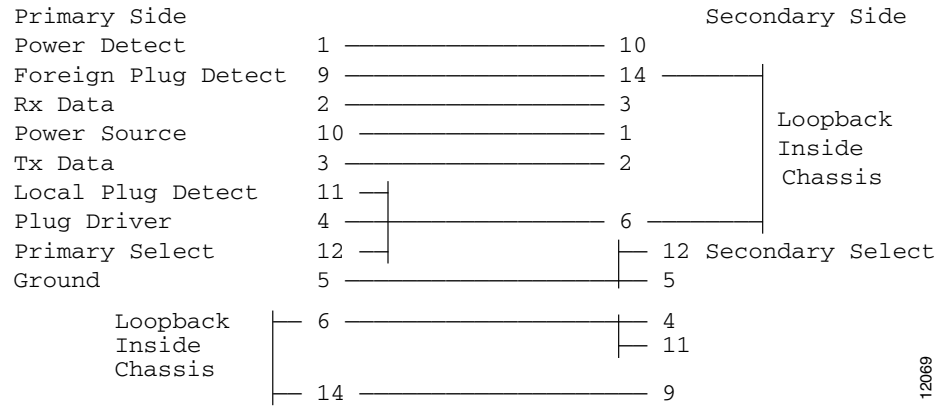
## Failover Cable Pinouts

Figure A-4 shows the pinouts of a crossover cable, should you use this with the Stateful Failover dedicated interface.

**Figure A-4** Stateful Failover Dedicated Interface Crossover Cable Pinouts

Should you need to test the cable you received, the pinouts are shown in [Figure A-5](#).

**Figure A-5 Failover Serial Cable Pinouts**



**Note** Pins 11 and 12 on the primary side are looped.

