

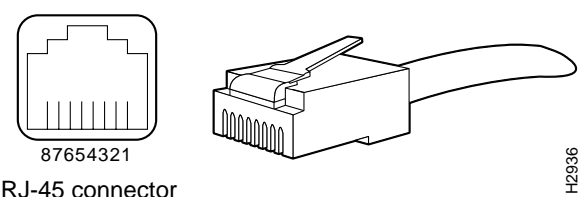
RJ-45 Cables

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

- Straight-through
- Crossover
- Rolled

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

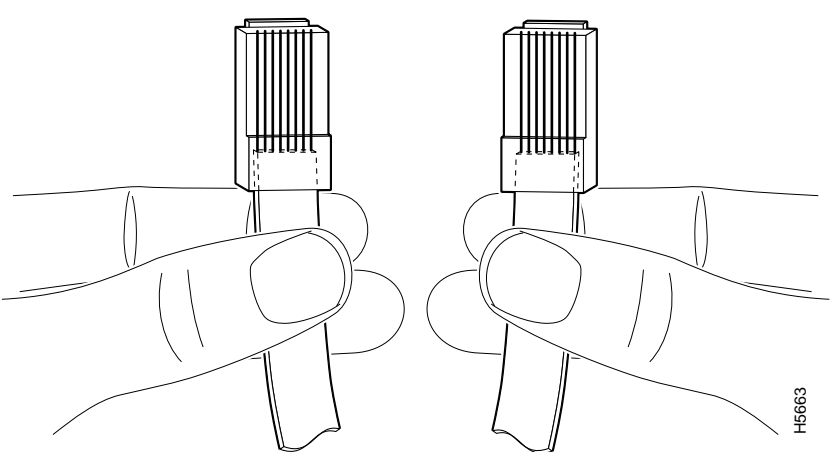
Figure 9-2: RJ-45 Cable



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 the following figure.

Figure 9-3: 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.
- 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.
- 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.

Table 9-4: RJ-45 Straight-Through (Ethernet) Cable Pinouts

Signal	Pin	Pin	Signal
Tx+	1	1	Tx+
Tx-	2	2	Tx-
Rx+	3	3	Rx+
-	4	4	-
-	5	5	-

Signal	Pin	Pin	Signal
Rx–	6	6	Rx–
–	7	7	–
–	8	8	–

Table 9-5: RJ-45 Crossover (Ethernet) Cable Pinouts

Signal	Pin	Pin	Signal
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 9-6: RJ-45 Rolled (Console) Cable Pinouts

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