# Preparing for Installation

This chapter explains the procedures for preparing to install the Cisco DVB CAR100 and contains the following sections:

- Safety Recommendations
    - Safety with Electricity
    - Safety Standards Compliance
- PC Hardware and Software Requirements
- Tools for Installation

## Safety Recommendations

The following guidelines help to ensure your safety and protect the equipment. This section does not cover all potentially hazardous situations, so be alert.

- Keep the Cisco DVB CAR100 area clear and dust free during and after installation.
- Do not block air circulation around the unit.

## Safety with Electricity

All electrical equipment can be dangerous. Cisco has taken great care to ensure safety during design and production of this equipment. However, incorrect installation, handling, or interference can impair safety.

The installation of the Cisco DVB CAR100 should be performed in compliance with your national electrical safety codes and the International Electrotechnical Commission (IEC) 364, part 1 through part 7.

## Basic Guidelines

Follow these basic guidelines when working with any electrical equipment:

- Disconnect all power and external cables before installing or removing a cable modem.
- Never install equipment that appears damaged.
- Carefully examine your work area for possible hazards such as moist floors, ungrounded power extension cables, and missing safety grounds.

In addition, use the guidelines that follow when working with any equipment that is disconnected from a power source, but still connected to cable wiring.

- Never install coaxial wiring during a lightning storm.
- Never install cable jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated cable wires or terminals unless the line has been disconnected at the network interface.

## Safety Standards Compliance

The Cisco DVB CAR100 is designed in accordance to the EN 60950 safety standard.

The unit is CE marked.

The Cisco DVB CAR100 complies with EN 550022 Class B (emission) and EN 50082-1 (immunity).

# PC Hardware and Software Requirements

The Cisco DVB CAR100 must be connected to a computer at the installation site. Cisco recommends a computer with the following configuration:

- Internet-ready.

- 10 Mbps Ethernet 10BaseT network interface card and applicable drivers installed.

**Note**     The Cisco DVB CAR100 is designed for 10 Mbps and 10/100 Mbps Ethernet NICs. It does not work with 100 Mbps only (pure Fast Ethernet) NICs.

If you have the Cisco DVB CAR100-LAN and are connecting to more than one computer, you will also need:

- An Ethernet hub.

- Ethernet cables to connect the computers to the hub. See your hub manufacturer's product documentation for information about the appropriate type of cables to use.

# Tools for Installation

Each Cisco DVB CAR100 chassis is fully assembled at the factory and, therefore, no further assembly is required. However, you will need the following tools and equipment to install the Cisco DVB CAR100:

- High-quality coaxial cable with at least 80 percent braided with foil

- An Ethernet 10BaseT network interface card (if not already installed)

For the Cisco DVB CAR100-PC—Ethernet crossover cable with RJ-45 connectors (to connect the Cisco DVB CAR100 to a single computer)

For the Cisco DVB CAR100-LAN—Ethernet straight-through cable with RJ-45 connectors (to connect the Cisco DVB CAR100 to a hub)

**Tips** To distinguish a straight-through Ethernet cable from a crossover Ethernet cable, hold the two RJ-45 ends of the cable next to each other so that you can see the colored wires inside the ends, as shown in Figure 2-1.

*Figure 2-1    Determining the Type of Ethernet Cable*
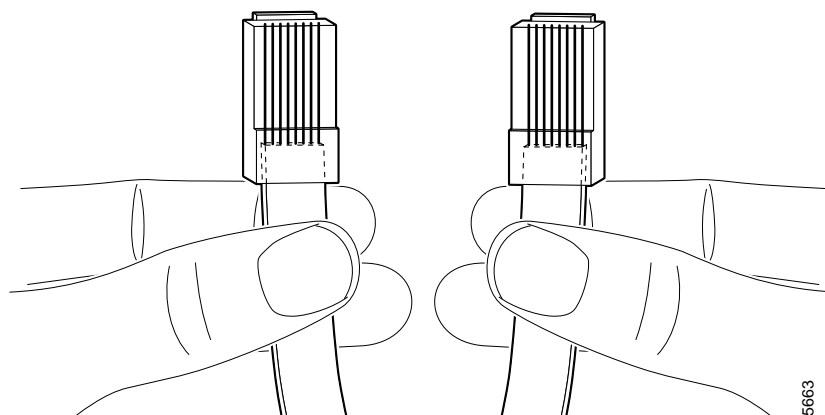


On a straight-through cable, the colored wires are in the same sequence at both ends of the cable.

On a crossover cable, the first (far left) colored wire at one end of the cable is the third colored wire at the other end of the cable.