### Parts List

| Key  | Part Description                             | Part Number      | Qty | Ctn | Notes                                                                 |
|------|----------------------------------------------|------------------|-----|-----|                                                                     |
| 1    | Power distribution units                     | 74-4787-01       | 4   | 1   |                                                                      |
| 2    | Speaker cable                                | 37-1062-01       | 3   | 1   |                                                                      |
| 3    | 8 m DVI-to-VGA + audio cable                 | 37-0848-01       | 1   | 1   |                                                                      |
| 4    | 6 m video cable                              | 37-0854-01       | 1   | 1   |                                                                      |
| 5    | 3 m (black) Cat6 Ethernet cable              | 37-0877-01       | 5   | 1   |                                                                      |
| 6    | 10 m Cat6 Ethernet cable, blue               | 37-0901-01       | 2   | 1   |                                                                      |
| 7    | 7 m power cord                               | 37-xxxx-xx       | 1   | 10  | See Appendix B, “Region- and Country-Specific Equipment,” for specific part numbers. |
| 8    | 3 m Jumper cord                              | 37-0833-01       | 9   | 1   |                                                                      |
| 9    | 2 m Jumper cord                              | 37-0852-01       | 1   | 1   | Used for presentation display.                                      |
| 10   | 3 m Video-to-DVI cable                       | 37-0853-01       | 3   | 1   |                                                                      |
| 11   | Cable identification stickers                | 51-4582-01       | 3   | 1   |                                                                      |
| 12   | Cable ties                                   | 51-4536-01       | 75  | 1   |                                                                      |
| 13   | Cable tie holders                            | 51-0609-01       | 75  | 1   |                                                                      |
| 14   | Ferrite Core                                 | 36-0244-01       | 12  | 1   |                                                                      |
| 15   | Rear cable tray cover                        | 700-30921 Kit #69-2067 Subkit #69-2043 | 2   |     |                                                                      |
| 16   | M8 x 20 mm screws                            | 48-2273-xx       | 1   |     |                                                                      |
|      | Presentation Display-to-Auxiliary Control Unit (DSUB to 8-P MINI DIN) cable | 37-0980-01 | 1 | 19 | Packaged with Auxiliary Control unit                               |
Caution
Do not power on the PDUs and auxiliary control unit until you connect and route all the cables.

Warning
Overcurrent protection is provided by branch circuit protection rated 20A @ 100-120 volts.

Warning
Output receptacles cannot exceed 15A @ 100-120 volts for any one receptacle.

General PDU and Cable Routing Guidelines

Caution
Make sure that the power cord plugs are fully plugged into the PDUs, and that the jumper cords are fully plugged into the PDU and wall outlet. Improper connections between the PDUs and the power cord plugs can cause the PDU to overheat and fail.

Caution
Use care when you route the power cables from the PDUs. Do not bend the cables immediately after they exit the PDUs and be sure that the cable does not pull on, or cause any strain to, the PDU socket and power cord plug connection. Incorrectly routed cables can cause undue stress to the PDU receptacle and the power cord plug.

Use the following guidelines and tips to route the cables cleanly:

- There is an open slot between the top of the display shelf support arms and the underside of the table. You can use this slot to route the cables to the side PDUs that are located on the screen end caps.
- The cable tray has three shelves. To minimize electromagnetic interference, route the cables as follows:
  - Use one row for power cables
  - Use one row for signal (for example, Ethernet) cables
  - Use one row for video cables
- The Cisco TelePresence system includes cable ties and cable tie holders that assist in cable routing. Peel off the adhesive of the holder, bundle the cables that you want to bundle or route, and tie them to the cable tie holder with the cable ties.

You can install the cable tie vertically as shown in Figure 9-1, or horizontally. Use the method that works the best for your cables.

<table>
<thead>
<tr>
<th>Key</th>
<th>Part Description</th>
<th>Part Number</th>
<th>Qty</th>
<th>Ctn</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Microphone extension cords</td>
<td>Included with 74-4743-xx</td>
<td>3</td>
<td>1</td>
<td>Included in Microphone kit</td>
</tr>
<tr>
<td></td>
<td>Label sheet for power and signal cables</td>
<td>47-22788-01 Kit #69-2063-01</td>
<td>2</td>
<td>1</td>
<td>Sub-carton 2</td>
</tr>
</tbody>
</table>
Special ESD Procedures for the Codec and Audio/Video Extension Unit Cables

Be sure that you perform electrostatic discharge (ESD) procedures before you connect cables to the codec and audio/video extension unit, particularly the HD Video and microphone cables.

**Caution**

Failure to perform ESD procedures can cause damage to the boards inside the codec or audio/video extension unit and render your system inoperable.

To discharge the cables of any static electricity before connecting them, complete the following steps:

**Step 1**
Discharge each cable by touching the metal cable connector to the codec or audio/video extension unit cable connector.

*Figure 9-8* provides an example of the correct way perform ESD procedures on the microphone cable; you can perform the same procedure for the HD video and other cables.

**Step 2**
Hold the cable connector to the codec or audio/video extension unit cable connector for 3 seconds.

**Step 3**
Immediately connect the microphone to the codec or audio/video extension unit.
Routing Power and Signal Cables

To route the power and signal cables for your Cisco TelePresence system, complete the following steps.

**Step 1** Connect the following cables:

- Attach and route the power cables for the lighting assembly by connecting the lights to the auxiliary control unit.
- Connect the DSUB to 8-P MINI DIN cable between the presentation display and the auxiliary control unit.
- Connect the Ethernet cables between the codec and the auxiliary control unit.
- Connect the power cord for the auxiliary control unit to a wall outlet.
Figure 9-2  *Cabling the Lighting Power Cables and Auxiliary Control Unit-to-Presentation Display Serial Cable*
Step 2  Attach and route the power and signal cables for the plasma displays.

Note  Connect the center plasma display to the “UNSWITCHED” outlet on the auxiliary control unit.

Figure 9-3  Cabling the Plasma displays

Note  Figure 9-3 displays the rear view of the Cisco TelePresence System 3010. Left and right are reversed.

Tip  Before you plug cables into a Codec or PDU, label each cable.
**Step 3**
Connect the camera assembly cables.

**Tip**
Connect the ferrite cores to the signal and power cables for the camera by completing Step 4.

*Figure 9-4* **Cabling the Camera assembly**

![Diagram showing cabling](diagram_url)
**Note** The camera cluster can experience radio frequency interference issues if the camera Ethernet and video cables are routed, bundled, or tied together. Cisco recommends that you route the Ethernet and video cables separately and use cable ties to tie them to opposite sides of the frame.

Figure 9-4 displays the rear view of the Cisco TelePresence System 3010. Left and right are reversed.

**Tip** Before you plug cables into a Codec, label each cable.

**Step 4** Attach the ferrite cores to the ends of all six camera cables (both the video and Ethernet cables, 12 ferrite cores total). Wrap the cables around the ferrite as shown in Figure 9-5. Attach the ferrite cores so that they are approximately 1 1/2 inches (4 cm) from the connectors.

*Figure 9-5  Connecting the Ferrite Cores*
Step 5  Connect the signal cables between the primary and secondary codecs.

Note  If you ordered a Presentation Codec or Auxiliary Control Unit with your TelePresence system, see Figure 9-13 for additional cabling information.
Figure 9-6  Connecting the Codec Signal Cables

Note  Figure 9-6 displays the rear view of the Cisco TelePresence System 3010. Left and right are reversed.
**Step 6** Connect the codec power cables.

*Figure 9-7 Routing the Codec Power Cables*
**Step 7** Connect the microphones to the microphone cables; then, connect the microphone cables to the codec and audio/video extension unit as shown in Figure 9-9.

**Caution** To prevent damage from electrostatic discharge (ESD) to the microphone, audio/video extension unit, or codec, perform the following steps:

a. Discharge each microphone cable by touching the metal cable connector to the codec or audio/video extension unit cable as shown in Figure 9-8.

b. Hold the cable connector to the codec or audio/video extension unit cable for 3 seconds.

c. Immediately connect the microphone to the codec or audio/video extension unit using the diagram in Figure 9-8.

*Figure 9-8  Discharging ESD from the Microphone Cables and Connecting the Microphone Cables and Microphones*
**Tip**

Before plugging cables into the Codec, label each one.
Step 8  Connect the presentation display power cable to the near-left PDU.

Note  Figure 9-10 displays the rear view of the Cisco TelePresence System 3010. Left and right are reversed.

Figure 9-10  Presentation Display Power Connection
Step 9  Cover the cable routing trays with the tray covers.

Cable routing for a standard CTS-3010 installation that uses a presentation codec is shown in Figure 9-12.

Cable routing for presentation display for a standard Cisco TelePresence system installation is shown in Figure 9-13. Refer to the “Options for the Cisco TelePresence System 3000 and 3010” chapter of the Cisco TelePresence Hardware Options and Upgrade Guide for more information about the presentation codec.

**Note**  Be sure to connect the serial cable from the auxiliary control unit to the “RS232C IN” connection of the presentation display (the serial connection that is closest to the conference participants).
Cable routing for a standard Cisco TelePresence system installation that uses a presentation codec is shown in Figure 9-13. Refer to the “Options for the Cisco TelePresence System 3000 and 3010” chapter of the *Cisco TelePresence Hardware Options and Upgrade Guide* for more information about the presentation codec.
Note

Be sure to connect the serial cable from the auxiliary control unit to the “RS232C IN” connection of the presentation display (the serial connection that is closest to the conference participants).

Figure 9-13  Cable Routing for Cisco TelePresence system with Presentation Codec

Step 10  (Optional) If your installation uses an optional external display or a document camera, install and route the cabling as shown in Figure 9-14.
Routing Power and Signal Cables

Note
Because you need to split the video signal between the presentation display and any additional video output, you must purchase at least one extra cable to connect optional external display(s). Cables for the external displays and document camera are not included with the standard Cisco TelePresence installation.

Note
When you use the audio/video extension unit as a video splitter, connect port 1 of the “Video in” connection from the codec, and port 4 of the “Video out” connection to the presentation display.

Note
Be sure to connect the serial cable from the auxiliary control unit to the “RS232C IN” connection of the presentation display (the serial connection that is closest to the conference participants).
Figure 9-14  Cabling Diagram: Cisco TelePresence system Installations with an External Display and Document Camera

Auxiliary Control Unit

Presentation display

External Display (Optional)

Document Camera (Optional)

Audio/Video Expansion Unit

Primary Codec

Speaker

First Row Center Microphone

Camera

Auxiliary network port

IP Phone

Network

Document Camera Video Out

Auxiliary Video In

Auxiliary Video Out

Display

Document Camera Video In

Video In

Video Out

Serial 1

Serial 2

Ethernet 1

Ethernet 2

Serial (RS232 IN)

Video In

Center Right

Far Left

Far Right

Center Left

Left Codec

Right Codec

Audio Expansion Unit

Document Camera Signal

Document Camera Video Out

Video

Video

Figure 9-14  Cabling Diagram: Cisco TelePresence system Installations with an External Display and Document Camera
Figure 9-15  Cisco TelePresence System With an External Display, Document Camera, and Presentation Codec

Auxiliary Control Unit

External Display

Presentation Codec

Primary Codec

Other Possible Configuration
Note

For Figure 9-15, replace the projector in the diagram with the presentation display.