



APPENDIX **D**

Technical Specifications

The following sections describe the technical specifications for the Cisco Unified IP Phone 7965G and 7945G.

- [Physical and Operating Environment Specifications, page D-1](#)
- [Cable Specifications, page D-2](#)
- [Network and Access Port Pinouts, page D-2](#)

Physical and Operating Environment Specifications

[Table D-1](#) shows the physical and operating environment specifications for the Cisco Unified IP Phone.

Table D-1 *Physical and Operating Specifications*

Specification	Value or Range
Operating temperature	32° to 104°F (0° to 40°C)
Operating relative humidity	10% to 95% (non-condensing)
Storage temperature	14° to 140°F (–10° to 60°C)
Height	9.07 in. (23.03 cm)
Width	10.82 in. (27.48 cm)
Depth	<ul style="list-style-type: none">• 2.54 in. (6.45 cm)—with footstand fully closed• 6.0 in. (15.24 cm)—with footstand fully open• 3.54 in. (9.00 cm)—with optional wall mount kit
Weight	3.25 lb (1.47 kg)
Power	<ul style="list-style-type: none">• 100-240 VAC, 50-60 Hz, 0.5 A—when using the AC adapter• 44V-57V DC, 0.25 A—when using the in-line power over the network cable

Table D-1 Physical and Operating Specifications (continued)

Specification	Value or Range
Cables	Category 3/5/5e/6 for 10-Mbps cables with 4 pairs Category 5/5e/6 for 100-Mbps cables with 4 pairs Category 5e/6 for 1000-Mbps cables with 4 pairs Note Cables have 4 pairs of wires for a total of 8 conductors.
Distance Requirements	As supported by the Ethernet Specification, it is assumed that the maximum cable length between each Cisco Unified IP Phone and the switch is 100 meters (330 feet).

Cable Specifications

- RJ-9 jack (4-conductor) for handset and headset connection.
- RJ-45 jack for the LAN 10/100/1000BaseT connection (labeled 10/100/1000 SW).
- RJ-45 jack for a second 10/100/1000BaseT compliant connection (labeled 10/100/1000 PC).
- 48-volt power connector.

Network and Access Port Pinouts

Although both the network and access ports are used for network connectivity, they serve different purposes and have different port pinouts.

- The network port is labeled 10/100/1000 SW on the Cisco Unified IP Phone.
- The access port is labeled 10/100/1000 PC on the Cisco Unified IP Phone.

Network Port Connector

[Table D-2](#) describes the network port connector pinouts.

Table D-2 Network Port Connector Pinouts

Pin Number	Function
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DC+
5	BI_DC-
6	BI_DB-
7	BI_DD+
8	BI_DD-

Note “BI” stands for bi-directional, while DA, DB, DC and DD stand for “Data A”, “Data B”, “Data C” and “Data D”, respectively.

Access Port Connector

Table D-3 describes the access port connector pinouts.

Table D-3 Access Port Connector Pinouts

Pin Number	Function
1	BI_DB+
2	BI_DB-
3	BI_DA+
4	BI_DD+
5	BI_DD-
6	BI_DA-
7	BI_DC+
8	BI_DC-

Note “BI” stands for bi-directional, while DA, DB, DC and DD stand for “Data A”, “Data B”, “Data C” and “Data D”, respectively.