

HP Photosmart ML1000D Minilab Site Validation Guide



Trademarks

All products mentioned herein may be trademarks of their respective companies.

Copyright and License

© 2009 Copyright Hewlett-Packard Development Company, L.P.

Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under the copyright laws.

The information contained herein is subject to change without notice.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Edition 3, 08/2009

Table of contents

HP Photosmart ML1000 Minilab Site Validation

Minilab site validation process overview	2
HP Photosmart ML1000 Minilab site validation form	3
Specifications	7
Weight and size specifications	7
Equipment footprint	9
Operator space requirements	10
Service space requirements	11
Recommended uncrating space requirements	12
Connectivity requirements	12
Power cords	14

HP Photosmart ML1000 Minilab Site Validation

- [Minilab site validation process overview](#)
- [HP Photosmart ML1000 Minilab site validation form](#)
- [Specifications](#)
- [Power cords](#)

Minilab site validation process overview

This list describes the HP Photosmart ML1000 Minilab site validation process:

- The site is prepared by the customer.
- Site validation is performed by an ML1000 field service engineer to check site readiness.
- A copy of the completed site validation form is left for the photo lab site manager, with specific actions to take (if applicable). An additional copy of the completed site validation form and any additional notes are filed for the installation team.

In the EMEA region, the form is sent back to the HP RPS Account Deployment Management with confirmation of readiness or notice of any deviations, and then a second site validation checkpoint takes place a few days before the installation to release the order delivery-shipment.

- Outstanding issues or problems are escalated (refer to service provider's escalation procedures).
- Deployment plan is updated by HP, and/or service provider (if applicable).

⚠ WARNING! If you proceed with the minilab installation without a complete site validation, you risk causing a poor customer experience. If the customer refuses to provide information required for validation, it is your responsibility to inform them of the potential ramifications to the delivery and installation process. It is critical that you complete the site validation to ensure that the customer's site meets power, networking, and space requirements.

Recommended tools to help complete the site validation form:

- Tape measure
- Masking tape (helpful to layout the footprint of the machine)
- Camera (helpful to document areas of concern)

HP Photosmart ML1000 Minilab site validation form

HP Service and Support Minilab installation site validation form. (Give a copy to the customer. Include any notes under *Comments*.)

Service Technician Name:

Service Technician Contact Phone Number:

Third-party Vendor Name:

Work Order #:

Store Name:

Store #:

Site Contact Name:

Site Address:

Site Contact Phone #:

Receiving logistics

Requirement Met (Y/N)?

Comments

- Verify there are no receiving blackout days. (If so, review against work order information and inform Project Manager of any discrepancies.)

- Verify no labor union constraints or requirements exist.

- Verify a truck height receiving dock is available (if not, document point of entry).

- Verify there are not any abnormal truck height restrictions.

If so, what is truck height restriction?

- If a truck-height receiving dock is not available, verify that a lift gate truck will be sufficient for the delivery. (Notify Project Manager immediately so order can be updated.)

- Verify there are no abnormal restrictions on truck dock time (up to 1 hour for unloading).

- Verify the delivery area is tractor-trailer accessible.

If no, what is the maximum size truck accessibility?

Receiving logistics

- Verify sufficient space is available in the holding area to uncrate the system.

Required space (minimum):
 Horizontal — 3048 mm (120 inches), 6096 mm (240 inches),
 Vertical — 2440 mm (96 inches)

- Verify path from point of entry to installation site meets 0.9 m (3 ft) (width) x 0.9 m (3 ft) (diameter) x 1.8 m (6 ft) (height).
-

- Verify path from point of entry to install site is free of stairs.
-

- Verify path from point of entry to install site is free of obstruction (includes tall thresholds and doors with steep entry angles that could result in high-centering the printer).
-

- Verify a pallet jack is available for use.
-

- Verify that a hand truck is available for use. The hand truck bottom plate must be at least 24 in wide in order to capture the feet of the finisher on each side and have kick-out wheels and a support strap for safety.
-

Location and Layout

Requirement Met (Y/N)?

Comments

- Verify minilab dimensions, including required servicing and operation space, so that minilab will fit into allocated layout space.

Required space (minimum): Height — 244 cm (96 in), Width — 305 cm (120 in), Depth — 206 cm (81 in)

Location and Layout

- Ensure the floor is flat. Use a 48-inch straight edge to measure floor flatness. No gap greater than ¼ - inch is allowable between the straight edge and floor anywhere within the red 48"x 48" measurement area as measured at six points.

Detail of 48" x 48"
Floor Flatness
Measurement Area



Use 48" Straight Edge
to measure floor flatness
in six places as indicated
by GREEN dotted lines

Verify floor and production area is stable, and strong enough to support the system and its operation. It is recommended that the floor be uncarpeted. However, if the floor is carpeted, verify that it is very low-pile carpet on cement so that the device remains level and the finisher is easy to move.

Inspect the floor surface. Some metal, ceramic tile, or wood floors can be slippery enough for machines to slide, even with casters locked. Applying traction tape might be necessary to prevent unwanted movement.

- Verify all Ethernet wiring that is required to be pre-placed is in place and labeled.

NOTE: If Ethernet wiring has been installed with cable outlets instead of cables extending from the wall (as recommended), make a note for the installation team to bring Ethernet patch cables.

- Verify the installation area meets recommended operating environment specifications. See "Regulatory Statements" in the HP Photosmart ML1000 Minilab with Edgeline Technology Installation Guide for details.
-

External Connectivity

Requirement Met (Y/N)?

Comments

External Connectivity

- Verify the dedicated external connectivity line is in place (if specified in work order). Minimum acceptable bandwidth for internet connectivity at a retail store location with RMS (Retail Management System) software capability is 120 kbps.
 - Verify the external connectivity line is active (if specified in work order).
-

Power

Requirement Met (Y/N)?

Comments

- Verify power availability and proximity (200-240V AC (+6%; -10%) 12A 50/60Hz).
-

Installation schedule

Requirement Met (Y/N)?

Comments

Inform customer of scheduled installation date and time.

Training schedule

Requirement Met (Y/N)?

Comments

Inform customer of training date and time per work order.

Service Technician Signature:

Signature verifies completion of site validation.

Customer Site Contact Signature:

Signature verifies agreement to the following: completion of site validation, statement of work to be completed by retailer, and scheduled installation date and time.

Specifications

- [Weight and size specifications](#)
- [Equipment footprint](#)
- [Operator space requirements](#)
- [Service space requirements](#)
- [Recommended uncrating space requirements](#)
- [Connectivity requirements](#)

Weight and size specifications

Figure 1 Individual unit weight and size information



Table 1 Individual unit weight and size information¹

	Device	Net weight unboxed	Gross weight boxed	Dimensions ² (boxed)	Dimensions ² (unboxed)
		kg (lbs)	kg (lbs)	W x D x H as cm (in)	W x D x H as cm (in)
1	Print engine	304 (671)	434 (957)	118 x 97 x 159 (46.5 x 38 x 62.5)	91 x 79 x 152 (36 x 31 x 60)
2	Tray 5	43 (95)	54 (119)	63 x 60 x 88 (25 x 23.5 x 34.5)	48 x 46 x 75 (19 x 18 x 29.5)
3	HP Photo Finisher	153 (337)	165 (364)	78 x 61 x 146 (31 x 24 x 57.5)	51 x 58 x 137 (20 x 23 x 54)

Table 1 Individual unit weight and size information¹ (continued)

	Device	Net weight unboxed	Gross weight boxed	Dimensions ² (boxed)	Dimensions ² (unboxed)
		kg (lbs)	kg (lbs)	W x D x H as cm (in)	W x D x H as cm (in)
4	Order Sorter	22 (48)	26 (57)	50 x 41 x 146 (20 x 16 x 57)	135 x 33 x 41 (53 x 13 x 16)

¹ Weight and size information is approximate and for reference only.

² Boxed and unboxed dimensions are not comparable. Some components are shipped lying down. When describing a boxed component, "width" might refer to an end-to-end measurement. When describing an unboxed component, "width" might refer to a front-to-back measurement.

Equipment footprint

Figure 2 HP Photosmart ML1000 Minilab (HP Photo Finisher, Tray 5, and Trays 2, 3, and 4 in the home position)

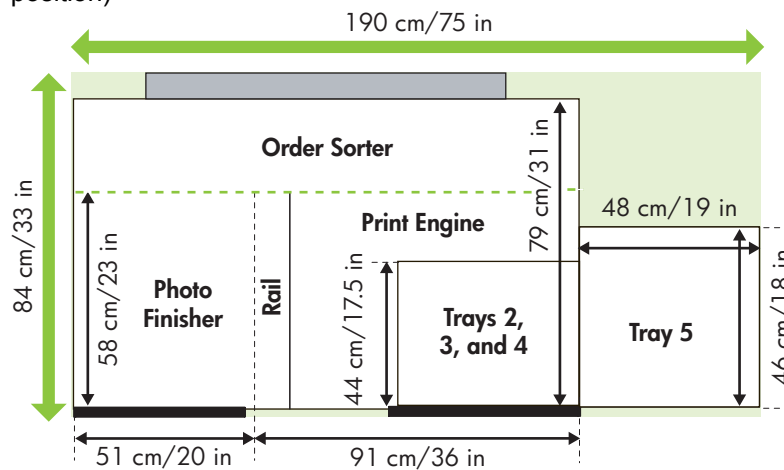
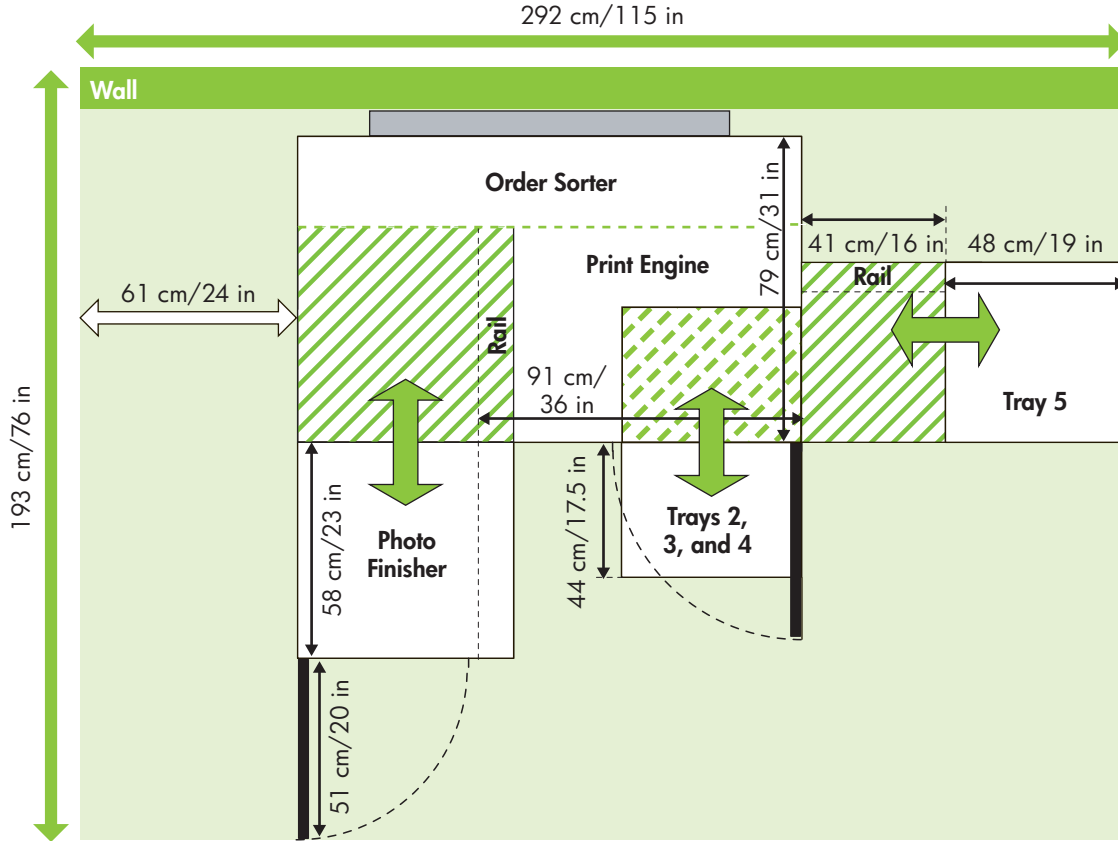


Table 2 HP Photosmart ML1000 Minilab (HP Photo Finisher, Tray 5, and Trays 2, 3, and 4 in the home position)

Configuration	Width	Depth	Total Area
HP Photosmart ML1000 Minilab (HP Photo Finisher, Tray 5, and Trays 2, 3, and 4 in the home position)	190 cm (75 in)	84 cm (33 in)	1.6 sq m (17 sq ft)

Operator space requirements

Figure 3 HP Photosmart ML1000 Minilab operator space dimensions



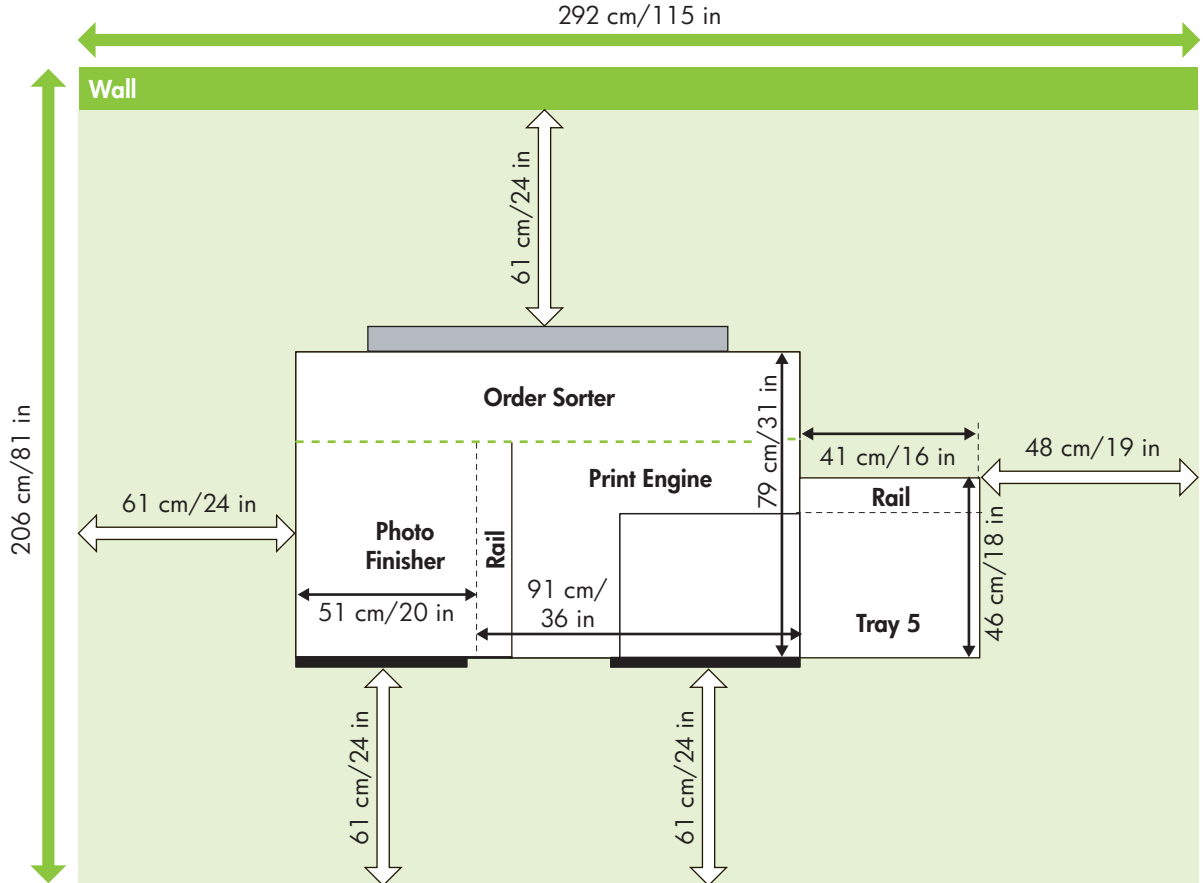
NOTE: Use this illustration to make sure that there is sufficient space around the print engine to operate it, open the trays, or detach the components to clear jams and perform preventive maintenance.

Table 3 HP Photosmart ML1000 Minilab operator space dimensions

Configuration	Width	Depth	Total Area Required for Clearance
HP Photosmart ML1000 Minilab	292 cm (115 in)	193 cm (76 in)	5.6 sq m (61 sq ft)

Service space requirements

Figure 4 HP Photosmart ML1000 Minilab service space dimensions



NOTE: Use this illustration to make sure that there is sufficient space around the print engine to remove Trays 2, 3, and 4, remove the rear cover and service the print engine, or extend the photo finisher or Tray 5.

Table 4 HP Photosmart ML1000 Minilab service space dimensions

Configuration	Width	Depth	Total Area Required for Clearance
HP Photosmart ML1000 Minilab	292 cm (115 in)	206 cm (81 in)	6 sq m (64.8 sq ft)

Recommended uncrating space requirements

Adequate space is needed for uncrating and initial assembly of the minilab. Depending on the individual solution, approximately 2-5 pallets may need to be accommodated.

Figure 5 Uncrating space requirements

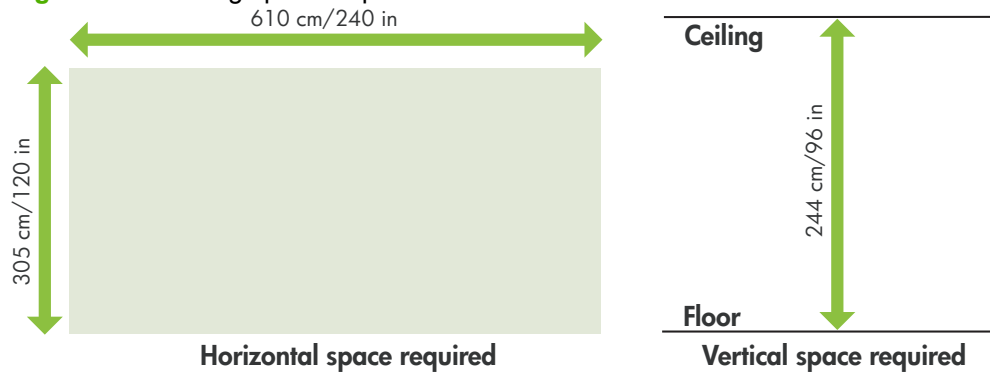


Table 5 HP Photosmart ML1000 Minilab recommended uncrating dimensions

Configuration	Width	Depth	Height
HP Photosmart ML1000 Minilab	610 cm (240 in)	305 cm (120 in)	244 cm (96 in)

Customers assume responsibility for recycling and disposal of all packaging and crating materials.

It is the customer's responsibility to receive and safely hold the equipment until the scheduled install date and time.

Connectivity requirements

The installation site needs to be prepared with the appropriate Ethernet cabling in place. It is the customer's responsibility to install the required Ethernet cables to specification prior to the site validation and subsequent HP Minilab installation.

Ethernet Cables

It is the customer's responsibility to install and route the required CAT-6 cable to specification:

- Use pre-made cables only (no on-site crimped cables or connections).
- If the minilab is part of a Photo Center installation, cable directly between each Photo Center component and the rack case, with no intermediate hubs, switches, or routers.
- Label both ends of each cable for identification with a scheme such as "A, B, C."
- Ethernet connector wall plates may be used.
- No crossover cables are required.

- Maximum cable length allowed is 305 m (1000 ft).
- For direct cabling (recommended):
 - RJ45 male endpoint connectors.
 - Leave 1.5 m (5 ft) coil of cable at each termination point.

External connectivity requirements include outbound Internet connectivity at a minimum bandwidth of 64kbps with either native IPSec protocol support or open outbound UDP ports 500 & 4500 to the 213.155.89.112/28 and 156.152.40.41.

Internet connectivity at a bandwidth of 512kbps is recommended, and may be shared; other connected services offered by HP may have additional connectivity requirements.

Minimum acceptable bandwidth for internet connectivity at a retail store location with RMS (Retail Management System) software capability is 120 kbps.

Network Cabling

It is the customer's responsibility to install the required network cabling prior to the site-ready inspection date.

The following tables specify which cables are to be installed by the customer prior to site-ready inspection, and which are to be installed by HP during installation.


 **NOTE:** Certain devices will not require installed cabling if an operations console is included in the installation.

Table 6 Customer-installed network cabling

	Wired to:	Installed by:	Quantity
Consumer station location	Network switch/router location	Customer, prior to Site-ready Inspection	1+
ML1000 Minilab printer location	Network switch/router location	Customer, prior to Site-ready Inspection	1
Retailer LAN Switch/Router (for external connectivity or 3rd-party minilab connection)	Network switch/router location	Customer, prior to Site-ready Inspection	1

Table 7 HP-installed network cabling

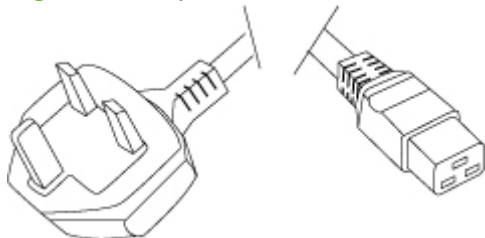
	Wired to:	Installed by:	Quantity
Order manager PC	Network switch	HP service technician, during installation	
VPN Router	Network switch	HP service technician, during installation	
Lab order station PC	Network switch	HP service technician, during installation	

Power cords

Table 8 Label

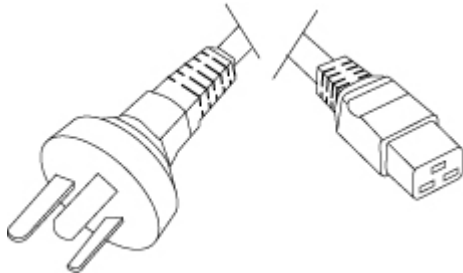
Item	HP Service part number
Label (SVC-LABEL-GROUND, EN)	C5957-67148

Figure 6 900 power cord



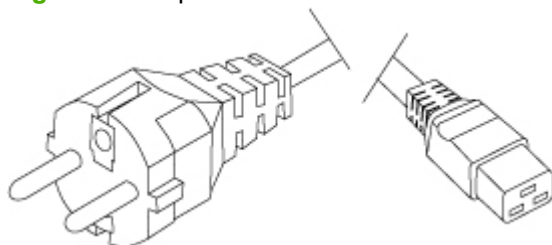
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-900 3 COND 2.5M-LG ROHS	<ul style="list-style-type: none"> • United Kingdom • Bahrain • Hong Kong SAR • Ireland • Kuwait • Lebanon • Malaysia • Malta • Nigeria • Oman • Qatar • Saudi Arabia • Singapore • UAE 	C5956-67772	8121-0907	13A, 250V AC

Figure 7 901 power cord



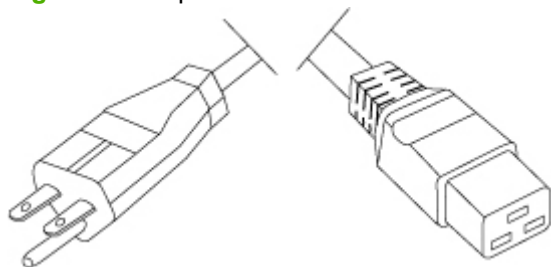
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-901 3 COND 2.5M-LG ROHS	<ul style="list-style-type: none"> ● Australia ● Fiji ● New Zealand ● Solomon Islands ● Tonga 	C5956-67773	8120-6351	15A, 250V AC

Figure 8 902 power cord



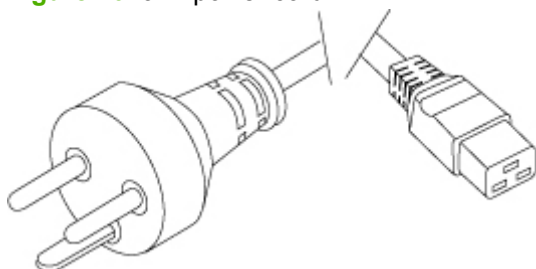
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-902 3 COND 2.5M-LG ROHS	Algeria, Antilles, Austria, Belgium, Croatia, Czech Republic, Egypt, Estonia, Ethiopia, Finland, France, Germany, Greece, Hungary, Iceland, Indonesia, Italy, Korea, Latvia, Lebanon, Lithuania, Luxembourg, Morocco, Norway, Serbia-Montenegro, Slovakia, Slovenia, Netherlands, Poland, Portugal, Russia, Spain, Sweden, Tunisia, Turkey, Vietnam	C5956-67774	8120-6352	16A, 250V AC

Figure 9 904 power cord



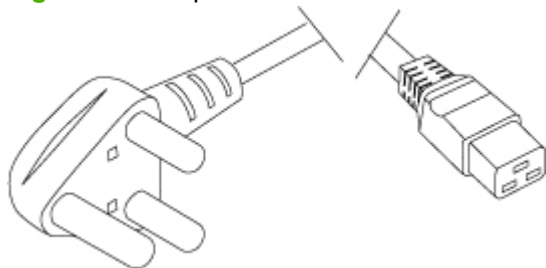
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-904 3 COND 2.5M-LG ROHS	Japan		8120-8623	15A, 250V AC

Figure 10 912 power cord



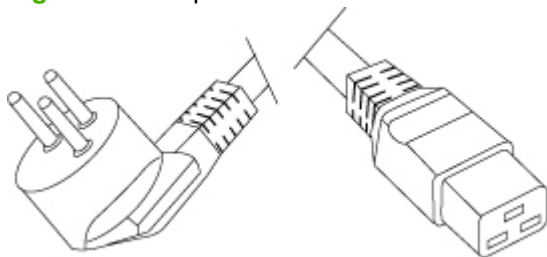
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-912 3 COND 2.5M-LG ROHS	Denmark	C5956-67793	8121-1077	13A, 250V AC

Figure 11 917 power cord



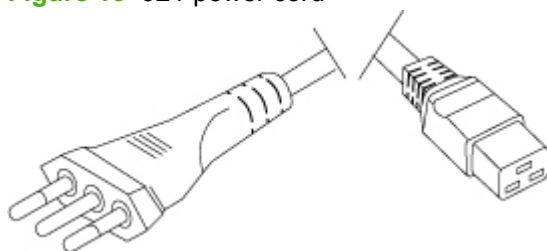
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-917 3 COND 2.5M-LG ROHS	<ul style="list-style-type: none"> • South Africa • India • Namibia 	C5956-67775	8121-0915	16A, 250V AC

Figure 12 919 power cord



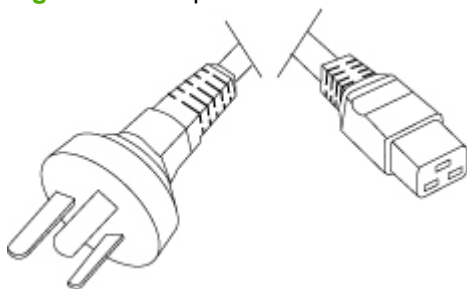
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-919 3 COND 2.5M-LG ROHS	Israel	C5957-67055	8121-1010	16A, 250V AC

Figure 13 921 power cord



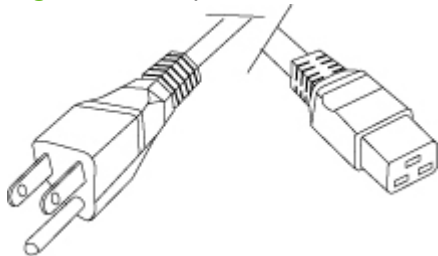
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-921 3 COND 2.5M-LG ROHS	Chile	C5956-67777	8121-0923	16A, 250V AC

Figure 14 924 power cord



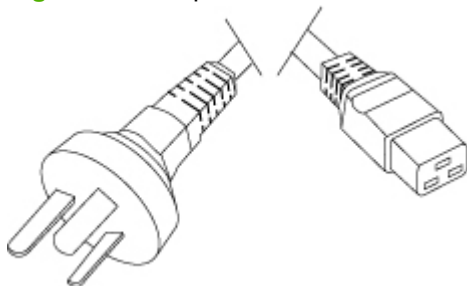
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-924 3 COND 2.5M-LG ROHS	China	8120-0924	8120-0924	15A, 250V AC

Figure 15 927 power cord



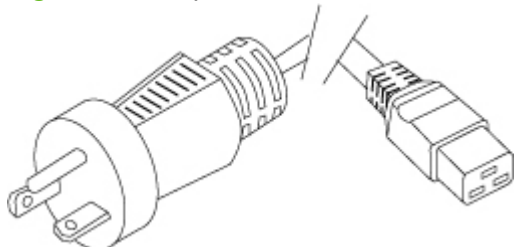
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-927 3 COND 2.5M-LG ROHS	<ul style="list-style-type: none"> • Brazil • Philippines • Thailand 	C5956-67779	8121-0922	15A, 250V AC

Figure 16 928 power cord



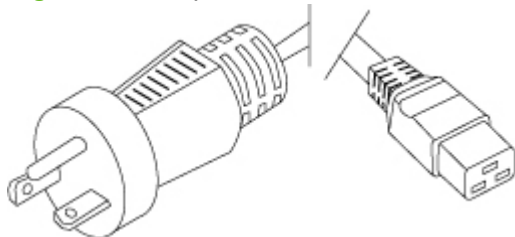
Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-928 3 COND 2.5M-LG ROHS	Argentina	C5956-67783	8121-0925	16A, 250V AC

Figure 17 930 power cord



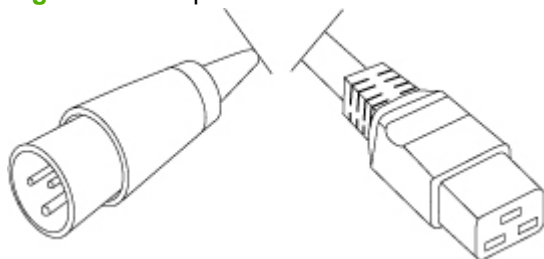
Description	Countries/ Regions	Service part number	Manufacturer number	Power cord rating	Wall receptacle
SVC-PWR-CORD OPT-930 3 COND 4.5M-LG ROHS	<ul style="list-style-type: none"> • USA • Canada 	C5956-67781	8120-6360	20A, 250V AC	NEMA 6-20R

Figure 18 938 power cord



Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-938	Taiwan	C5957-67084	8121-1033	20A, 250V AC

Figure 19 948 power cord



Description	Countries/Regions	Service part number	Manufacturer number	Power cord rating
SVC-PWR-CORD OPT-948 3 COND 2.5M-LG ROHS	<ul style="list-style-type: none"> • Switzerland • Lichtenstein 	8121-6897	8121-6897	16A, 250V AC

Released Aug 17, 2009