



## Overview

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## Features

The Cisco Email Security Appliances (ESA) C195, C395, C695, and C695F are designed to serve as your SMTP email gateway at your network perimeter—that is, the first ESA with an IP address that is directly accessible to the internet for sending and receiving email. Many of the features (including reputation filtering, data loss prevention, content scanning, spam detection, and virus protection) require you to install the ESA into your existing network infrastructure.

The ESA C195, C395, C695, and C695F support AsyncOS version 12.5 and later. See [Product ID Numbers, on page 16](#) for a list of field-replaceable product IDs (PIDs) associated with the ESA security appliances.

The following figure shows the Cisco Email Security appliance.

**Figure 1: ESA x95 C Series**



The following table lists the features of the ESA C195, C395, C695, and C695F.

Table 1: ESA C195, C395, C695, and C695F Features

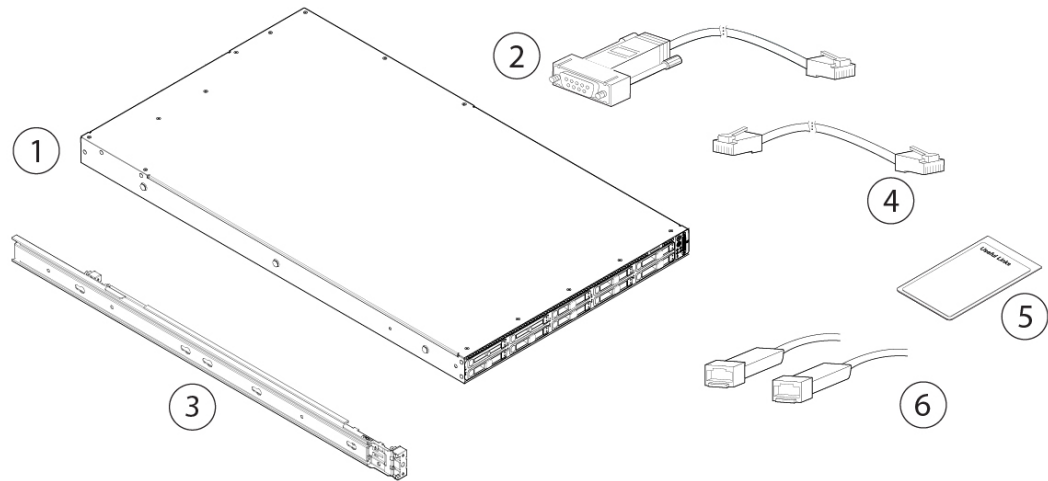
Feature	C195	C395	C695	C695F
Form factor	1 RU			
Rack mount	Standard 19-inch (48.3 cm) 4-post EIA rack			
Airflow	Front to rear Cold aisle to hot aisle			
Pullout asset card	Displays the serial number			
Grounding holes	Two threaded holes for dual-hole grounding lug Use is optional; the supported AC power supplies have internal grounding, so no additional chassis grounding is required.			
Locking faceplate	Optional			
Unit identification button	On front panel			
Power button	On rear panel			
Processor	Before January 2021: One Intel Xeon 4110 After January 2021: One Intel Xeon 4210	Before January 2021: One Intel Xeon 4116 After January 2021: One Intel Xeon 4216	Before January 2021: One Intel Xeon 6126 After January 2021: One Intel Xeon 6226	
Memory	16-GB RAM		32-GB RAM	
RDIMMs Internal component only; not field-replaceable	Before January 2021: One 16-GB DDR4-2400-MHz DIMM After January 2021: One 16-GB DDR4-2933-MHz DIMM		Before January 2021: Two 16-GB DDR4-2400-MHz DIMMs After January 2021: Two 16-GB DDR4-2933-MHz DIMMs	
Management port	One built-in port (DATA 1)	One built-in port (MGMT)		
Network ports	One Gigabit Ethernet (DATA 2)	Five Gigabit Ethernet (DATA 1, DATA 2, DATA 3, DATA 4, DATA 5)		One Gigabit Ethernet (DATA 1)  Two fiber optic (DATA 2 and DATA 3)
Remote power cycling (RPC)	Accessed through the 1-Gb dedicated port			
USB ports	Two USB 3.0 Type A			
SFP+ ports	No			Two fiber optic

Feature	C195	C395	C695	C695F
Supported SFP+s	—			GLC-SX-MMD (1 Gb) (optional)  SFP-10G-SR (10 Gb) (optional)
Serial console port	One 1-Gb RJ-45 serial port running RS-232 (RS-232D TIA-561)  Directly connects a computer to the chassis			
AC power supply	One  770 W AC  Hot-swappable  You can order a second power supply for redundancy as 1+1.	Two  770 W AC  Hot-swappable and redundant as 1+1		
Fans	Six fans for front-to-rear cooling  Internal component only; not field-replaceable. If one fan fails, you must send your chassis for a return material authorization (RMA).			
Storage	Two 600-GB SAS HDDs  RAID 1, hot-swappable		Eight 600-GB SAS HDDs  RAID 10, hot-swappable	

## Package Contents

The following figure shows the package contents for the ESA C195, C395, C695, and C695F. Note that the contents are subject to change and your exact contents might contain additional or fewer items.

Figure 2: Package Contents



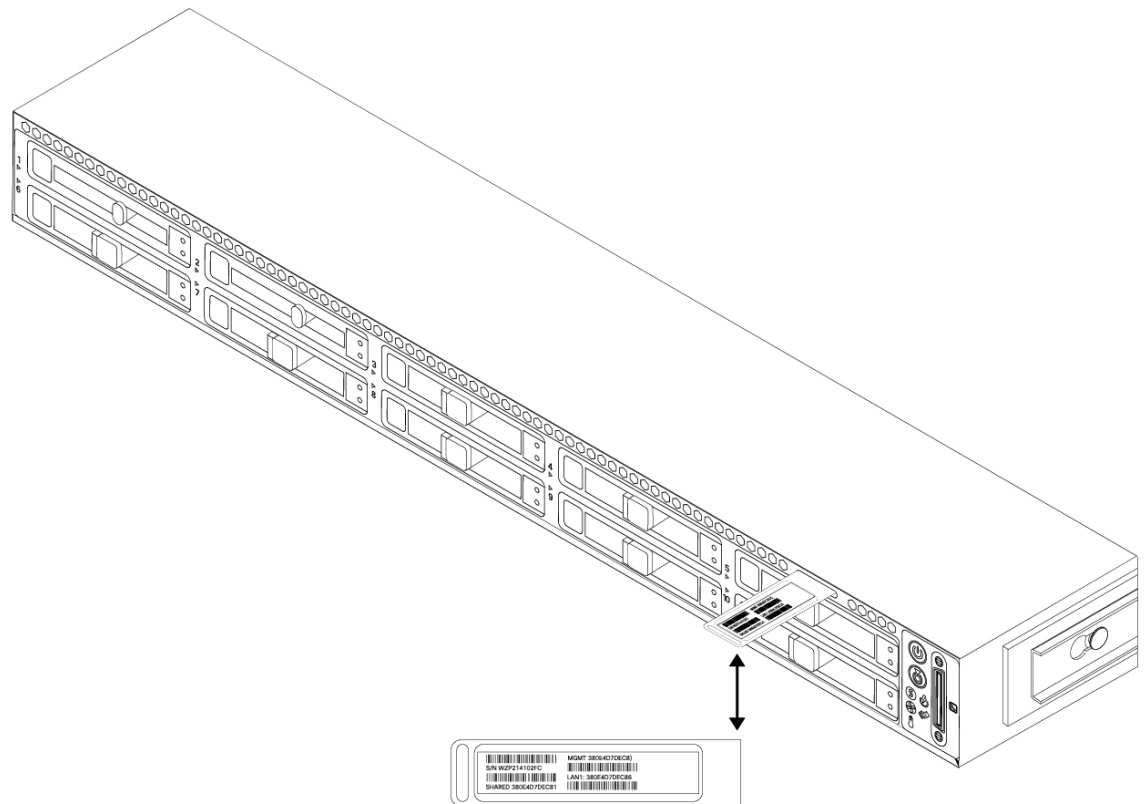
1	Chassis	2	RJ-45 to DB9-RS232 console cable (Cisco part number 72-3383-XX)
3	Cisco rail kit (Cisco part number 800-43376-02)	4	RJ-45 to RJ-45 Cat 5 Ethernet cable, yellow six feet long (Cisco part number 72-1482-XX)
5	Useful Links document The steps in the Useful Links document send you to the documentation you need to install, set up, and configure your ESA appliance.	6	Two 1-Gb or 10-Gb SFP+ fiber optic transceivers with cables <b>Note</b> Supported on the C695F. You cannot mix SFP transceiver types in the same chassis. You can either have two 1-Gb or two 10-Gb SFPs in the same chassis.

## Serial Number Locations

The serial number (SN) for the ESA C195, C395, C695, and C695F is printed on the pullout asset card located on the front panel as shown in the following figure.



**Figure 3: Serial Number on Pullout Asset Card**



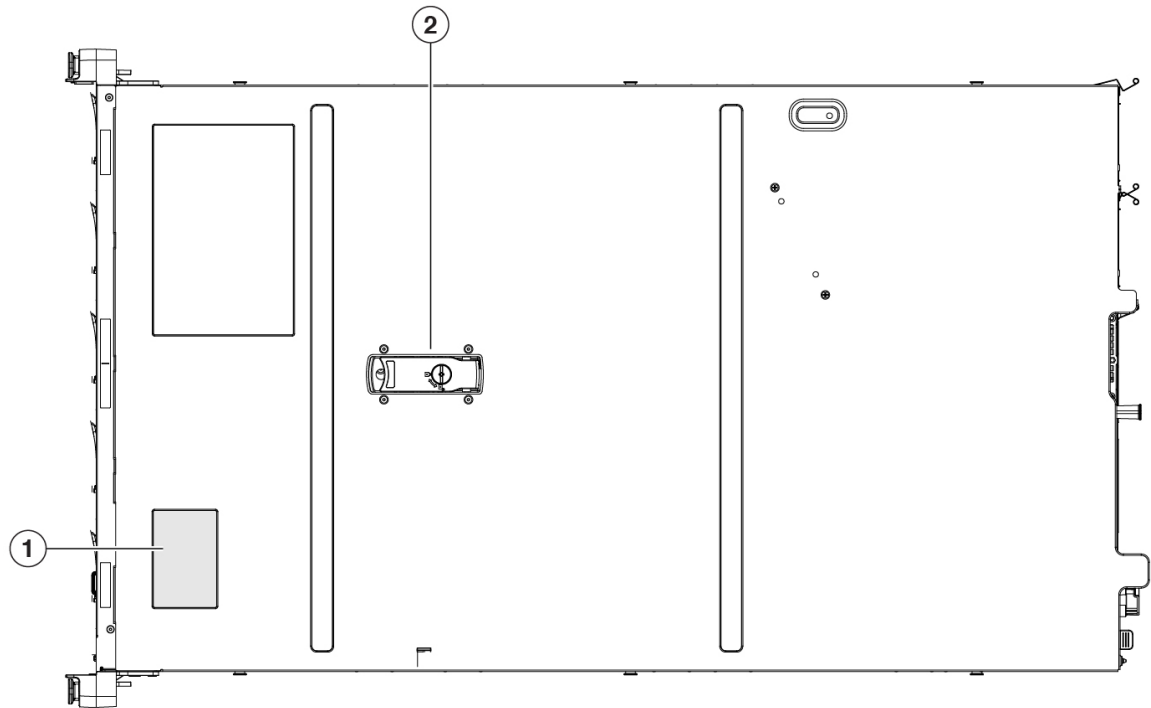
The serial number is also on the label on the cover of the chassis as shown in the following figure.



**Caution**

The cover latch on the top of the chassis cover is not supported. There are no internal field-replaceable parts in the ESA C195, C395, C695, and C695F.

**Figure 4: Serial Number Location on Cover**

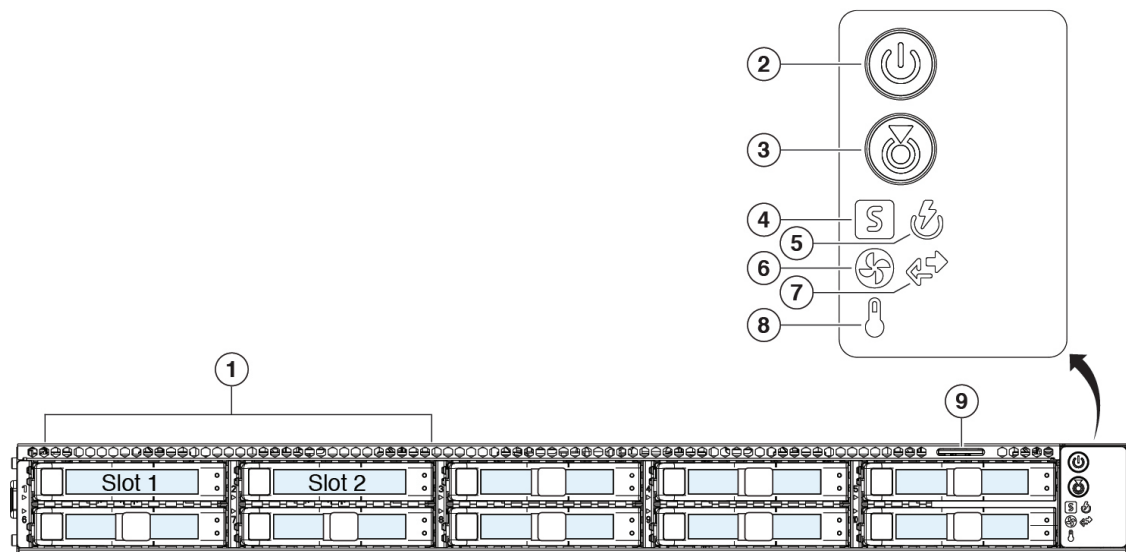


1	Serial number label	2	Cover latch Not supported
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## Front Panel

The following figure shows the front panel features and disk-drive configuration for the ESA C195. See [Front Panel LEDs, on page 8](#) for a description of the LEDs.

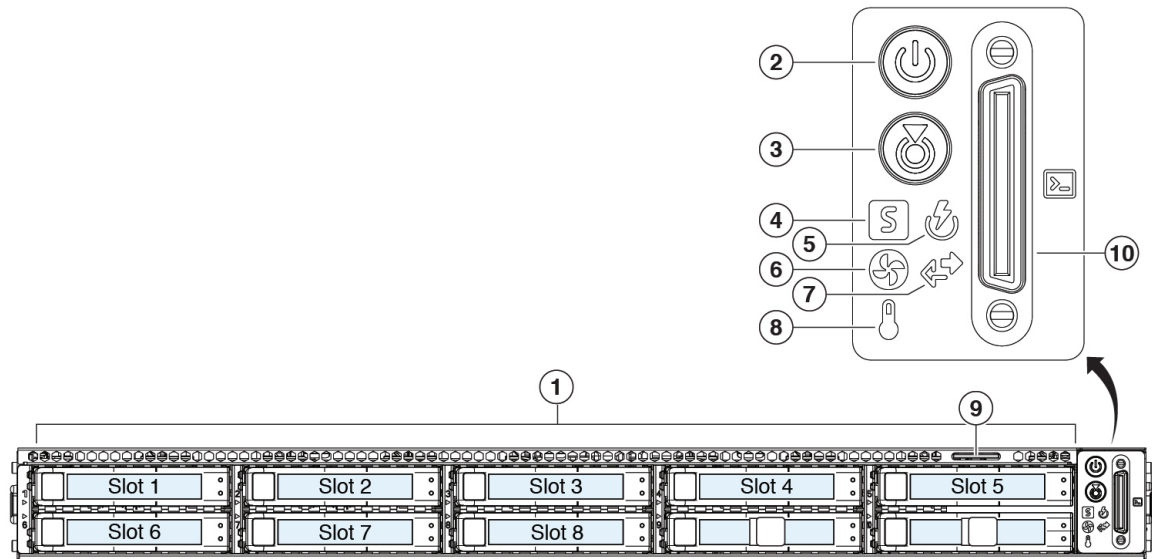
Figure 5: C195 &amp; C395 Front Panel



<b>1</b>	Drive bays Supports two 600-GB SAS HDDs in slots 1 and 2	<b>2</b>	Power button/power status LED
<b>3</b>	Unit identification button/LED	<b>4</b>	System status LED
<b>5</b>	Power supply status LED	<b>6</b>	Fan status LED
<b>7</b>	Network link activity LED	<b>8</b>	Temperature status LED
<b>9</b>	Pullout asset card		—

The following figure shows the front panel features and disk-drive configuration for the ESA C695 and C695F. See [Front Panel LEDs, on page 8](#) for a description of the LEDs.

Figure 6: C695 and C695F Front Panel

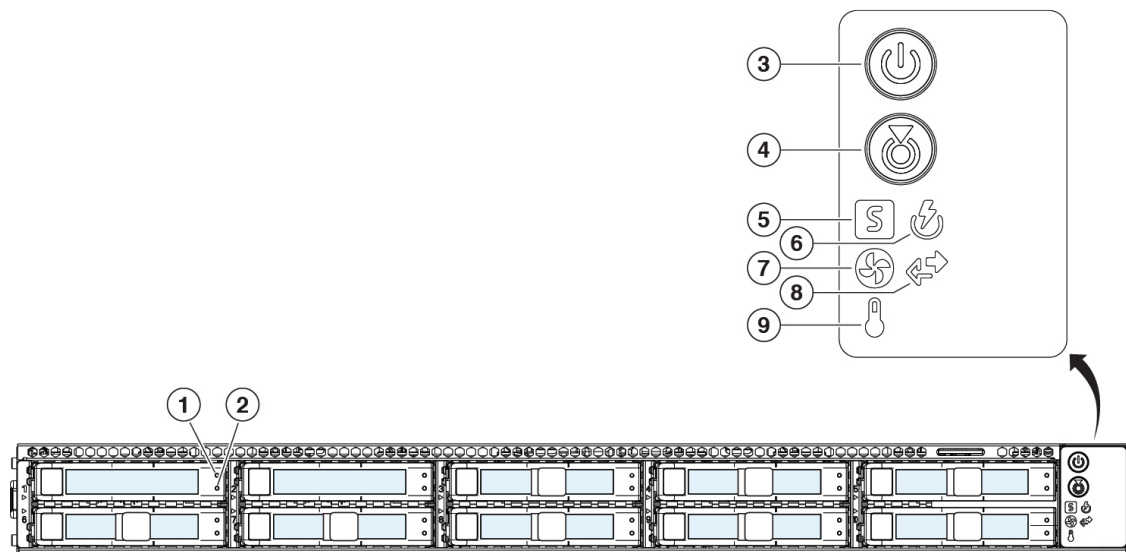


1	Drive bays Supports eight 600-GB SAS HDDs in slots 1 through 8	2	Power button/power status LED
3	Unit identification button/LED	4	System status LED
5	Power supply status LED	6	Fan status LED
7	Network link activity LED	8	Temperature status LED
9	Pullout asset card		—

## Front Panel LEDs

The following figure shows the front panel LEDs for the C195, C395, C695, and C695F, and describes their states.

Figure 7: Front Panel LEDs and Their States



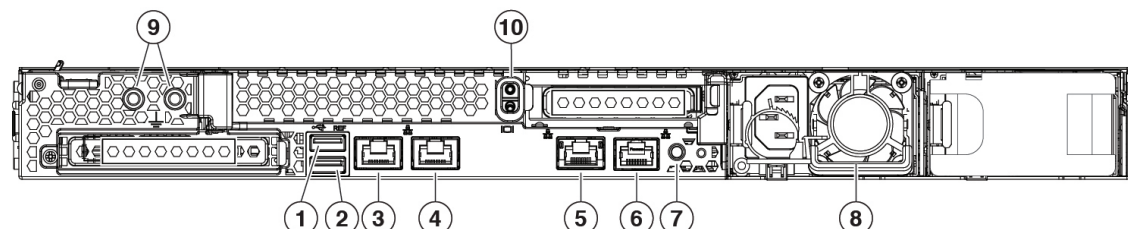
1	<b>Drive fault LED:</b> <ul style="list-style-type: none"> <li>• Off—The drive is operating properly.</li> <li>• Amber—Drive fault detected.</li> <li>• Amber, flashing—The drive is rebuilding.</li> <li>• Amber, flashing with 1-second interval—Drive locate function activated in the software.</li> </ul>	2	<b>Drive activity LED:</b> <ul style="list-style-type: none"> <li>• Off—There is no drive in the drive tray (no access, no fault).</li> <li>• Green—The drive is ready.</li> <li>• Green, flashing—The drive is reading or writing data.</li> </ul>
3	<b>Power LED:</b> <ul style="list-style-type: none"> <li>• Off—There is no AC power to the chassis.</li> <li>• Amber—The chassis is in standby mode.</li> <li>• Green—The chassis is in main power mode. Power is supplied to all components.</li> </ul>	4	<b>Unit identification LED:</b> <ul style="list-style-type: none"> <li>• Off—The unit identification function is not in use.</li> <li>• Blue, flashing—The unit identification function is activated.</li> </ul>

<p><b>5</b> System status LED:</p> <ul style="list-style-type: none"> <li>• Green—The chassis is running in normal operating condition.</li> <li>• Green, flashing—The chassis is performing system initialization and memory check.</li> <li>• Amber—The chassis is in a degraded operational state (minor fault). <ul style="list-style-type: none"> <li>• Power supply redundancy is lost.</li> <li>• CPUs are mismatched.</li> <li>• At least one CPU is faulty.</li> <li>• At least one DIMM is faulty.</li> <li>• At least one drive in a RAID configuration failed.</li> </ul> </li> <li>• Amber, 2 flashes—There is a major fault with the system board.</li> <li>• Amber, 3 flashes—There is a major fault with the DIMMs.</li> <li>• Amber, 4 flashes—There is a major fault with the CPUs.</li> </ul>	<p><b>6</b> Power supply status LED:</p> <ul style="list-style-type: none"> <li>• Green—All power supplies are operating normally.</li> <li>• Amber—One or more power supplies are in a degraded operational state.</li> <li>• Amber, flashing—One or more power supplies are in a critical fault state.</li> </ul>
<p><b>7</b> Fan status LED:</p> <ul style="list-style-type: none"> <li>• Green—All fans are operating properly.</li> <li>• Amber, flashing—One or more fans breached the nonrecoverable threshold.</li> </ul>	<p><b>8</b> Network link activity LED:</p> <ul style="list-style-type: none"> <li>• Off—The Ethernet port link is idle.</li> <li>• Green—One or more Ethernet ports are link-active, but there is no activity.</li> <li>• Green, flashing—One or more Ethernet ports are link-active with activity.</li> </ul>
<p><b>9</b> Temperature status LED:</p> <ul style="list-style-type: none"> <li>• Green—The chassis is operating at normal temperature.</li> <li>• Amber—One or more temperature sensors breached the critical threshold.</li> <li>• Amber, flashing—One or more temperature sensors breached the nonrecoverable threshold.</li> </ul>	<p>—</p>

## Rear Panel

The following figure shows the rear panel of the ESA C195. See [Rear Panel LEDs, on page 13](#) for a description of the LEDs.

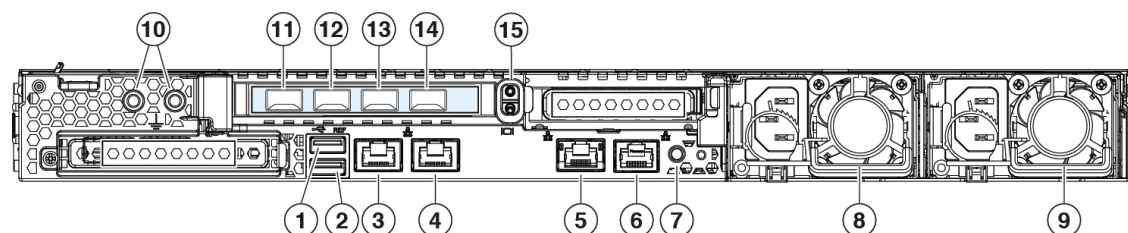
**Figure 8: C195 Rear Panel**



1	USB 3.0 Type A (USB 1)	2	USB 3.0 Type A (USB 2)
3	Management Gigabit Ethernet interface (DATA 1)	4	Data Gigabit Ethernet interface (DATA 2)
5	RPC port (RPC)	6	Serial console port (Console) RJ-45 connector that directly connects a computer to the appliance.
7	Unit identification button	8	One 770-W AC power supply (PSU 1) You can order a second power supply to provide redundancy as 1 + 1.
9	Threaded holes for dual-hole grounding lug Use is optional. The supported AC power supplies have internal grounding, so no additional chassis grounding is required.	10	Riser handle Not supported

The following figure shows the rear panel of the ESA C395 and C695. See [Rear Panel LEDs, on page 13](#) for a description of the LEDs.

**Figure 9: C395 and C695 Rear Panel**

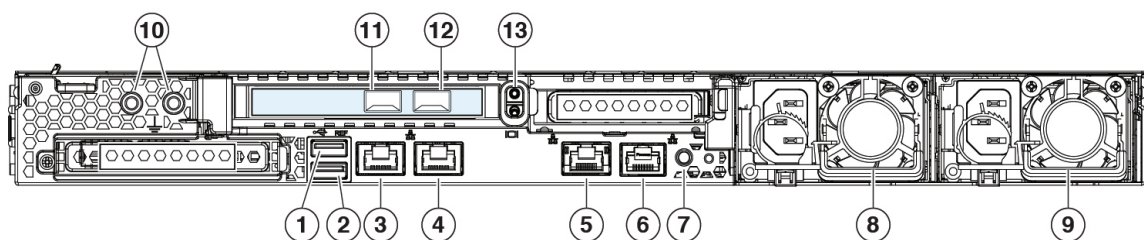


1	USB 3.0 Type A (USB 1)	2	USB 3.0 Type A (USB 2)
3	Management interface (MGMT) Restricted to management use only	4	Gigabit Ethernet customer data interface (DATA 5)

5	RPC port (RPC)	6	Serial console port (Console) RJ-45 connector that directly connects a computer to the appliance.
7	Unit identification button	8	770-W AC power supply (PSU 1)
9	770-W AC power supply (PSU 2)	10	Threaded holes for dual-hole grounding lug Use is optional. The supported AC power supplies have internal grounding, so no additional chassis grounding is required.
11	Gigabit Ethernet customer data interface (DATA 1)	12	Gigabit Ethernet customer data interface (DATA 2)
13	Gigabit Ethernet customer data interface (DATA 3)	14	Gigabit Ethernet customer data interface (DATA 4)
15	Riser handle Not supported		—

The following figure shows the rear panel of the ESA C695F. See [Rear Panel LEDs, on page 13](#) for a description of the LEDs.

**Figure 10: C695F Rear Panel**



1	USB 3.0 Type A (USB 1)	2	USB 3.0 Type A (USB 2)
3	Management interface (MGMT) Restricted to management use only	4	Data interface (DATA 1)
5	RPC port (RPC)	6	Serial console port (Console) RJ-45 connector that directly connects a computer to the appliance.
7	Unit identification button	8	770-W AC power supply (PSU 1)
9	770-W AC power supply (PSU 2)	10	Threaded holes for dual-hole grounding lug Use is optional. The supported AC power supplies have internal grounding, so no additional chassis grounding is required.

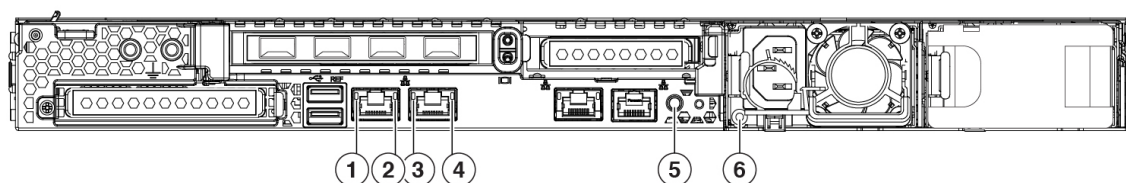


<b>11</b>	<b>Data interface (DATA 2)</b> 1 or 10-Gigabit fiber optic SFP+ support Use only Cisco-supported SFP+ transceivers. Do not mix 1-Gb and 10-Gb SFPs in the same chassis.	<b>12</b>	<b>Data interface (DATA 3)</b> 1 or 10-Gigabit fiber optic SFP+ support Use only Cisco-supported SFP+ transceivers. Do not mix 1-Gb and 10-Gb SFPs in the same chassis.
<b>13</b>	<b>Riser handle</b> Not supported		—

## Rear Panel LEDs

The following figure shows the rear panel LEDs of the ESA C195 model and describes the LED states. The C395, C695, and C695F have the same LEDs except that these models have more data interfaces; the speed and status LED descriptions are the same.

**Figure 11: Rear Panel LEDs and Their States**



<b>1</b>	<b>Management interface link speed:</b> <ul style="list-style-type: none"> <li>Off—Link speed is 100 Mbps.</li> <li>Amber—Link speed is 1 Gbps.</li> <li>Green—Link speed is 10 Gbps.</li> </ul>	<b>2</b>	<b>Management interface link status:</b> <ul style="list-style-type: none"> <li>Off—No link is present.</li> <li>Green—Link is active.</li> <li>Green, flashing—Traffic is present on the active link.</li> </ul>
<b>3</b>	<b>Data interface link speed:</b> <ul style="list-style-type: none"> <li>Off—Link speed is 100 Mbps.</li> <li>Amber—Link speed is 1000 Mbps.</li> <li>Green—Link speed is 10 Gbps.</li> </ul>	<b>4</b>	<b>Data interface link status:</b> <ul style="list-style-type: none"> <li>Off—No link is present.</li> <li>Green—Link is active.</li> <li>Green, flashing—Traffic is present on the active link.</li> </ul>

<b>5</b> Rear unit identification: <ul style="list-style-type: none"> <li>• Off—The unit identification function is not in use.</li> <li>• Blue, flashing—The unit identification function is activated.</li> </ul>	<b>6</b> Power supply (one LED for each power supply): <ul style="list-style-type: none"> <li>• Off—No AC input (12-V main power off; 12-V standby power off)</li> <li>• Green, flashing—12-V main power off; 12-V standby power on.</li> <li>• Green—12-V main power on; 12-V standby power on.</li> <li>• Amber, flashing—Warning threshold detected but 12-V main power on.</li> <li>• Amber—Critical error detected; 12-V main power off (for example, overcurrent, overvoltage, or overtemperature failure).</li> </ul>
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## Power Supply

The power supply is hot-swappable. For the C195, you can order a second power supply for redundancy as 1+1. The C395, C695, and C695F ship with two power supplies thus providing for redundancy.



**Note** Make sure that one power supply is always active.

The following table lists the specifications for the 770-W AC power supply (Cisco part number 341-0591-04) used in the ESA C195, C395, C695, and C695F.

**Table 2: 770-W Power Supply Specifications**

Description	Specification
AC input voltage range	Nominal range: 100 to 120 V AC, 200 to 240 V AC Range: 90–132 V AC, 180–264 V AC
AC input frequency	Nominal range: 50–60 Hz Range: 47–63 Hz
Maximum AC input current	9.5 A peak at 100-V AC 4.5 A peak at 208 V AC
Maximum input volt amperes	950 VA at 100 V AC
Maximum output power for each power supply	770 W
Maximum inrush current	15 A (subcycle duration)
Maximum hold-up time	12 ms at 770 W

Description	Specification
Power supply output voltage	12 V DC
Power supply standby voltage	12 V DC
Efficiency rating	Climate Savers Platinum Efficiency (80 Plus Platinum certified)
Form factor	RSP2
Input connector	IEC320 C13/C15

## Hardware Specifications

The following table lists the hardware specifications for the ESA C195, C395, C695, and C695F.

**Table 3: ESA C195, C395, C695, and C695F Hardware Specifications**

Specification	C195	C395	C695	C695F
Dimensions (H x W x D)	1.7 x 16.89 x 29.8 inches (4.32 x 43.0 x 75.6 cm)			
Weight	30.9 lb (14.01 kg)	32.9 lb (14.92 kg)	35.6 lb (16.15 kg)	35.9 lb (16.28 kg)
Temperature	Operating: 41 to 95°F (5 to 35°C) Derate the maximum temperature by 1°C for every 1000 ft (305 m) of altitude above sea level. Nonoperating: -40 to 149°F (-40 to 65°C) When stored or transported			
Relative humidity	Operating: 10 to 90% noncondensing Nonoperating: 5 to 93% noncondensing			
Altitude	Operating: 0 to 10,000 ft Nonoperating: 0 to 40,000 ft When stored or transported			
Sound power level	5.5 Bels (measure A-weighted per ISO7779 LWAd) Operation at 73°F (23°C)			
Sound pressure level	40 dBa (measure A-weighted per ISO7779 LpAM) Operation at 73°F (23°C)			

## Product ID Numbers

The following table lists the field-replaceable PIDs associated with ESA C195, C395, C695, and C695F. The spare components are ones that you can order and replace yourself. If any internal components fail, you must get an RMA for the entire chassis including the SFPs and SFP cables. Remove the drives and power supplies before you send the chassis for RMA. See the [Cisco Returns Portal](#) for more information.

**Table 4: ESA C195, C395, C695, and C695F PIDs**

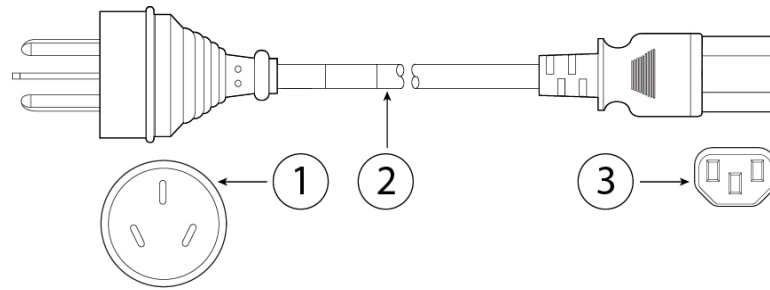
PID	Description
CCS-HDD-600GB10K	ESA C195, C395, C695, and C695F HDD
CCS-HDD-600GB10K=	ESA C195, C395, C695, and C695F HDD (spare)
CCS-PSU1-770AC	ESA C195, C395, C695, and C695F AC power supply
CCS-PSU1-770AC=	ESA C195, C395, C695, and C695F AC power supply (spare)
UCSC-RAILB-M4	ESA C195, C395, C695, and C695F rail kit
UCSC-RAILB-M4=	ESA C195, C395, C695, and C695F rail kit (spare)
UCSC-BZL-C220M5	ESA C195, C395, C695, and C695F 1 RU locking faceplate
UCSC-BZL-C220M5=	ESA C195, C395, C695, and C695F 1 RU locking faceplate (spare)
SFP-10G-SR	ESA C695F 10-Gb SFP
SFP-10G-SR=	ESA C695F 10-Gb SFP (spare)
GLC-SX-MMD	ESA C695F 1-Gb SFP
GLC-SX-MMD=	ESA C695F 1-Gb SFP (spare)

## Power Cord Specifications

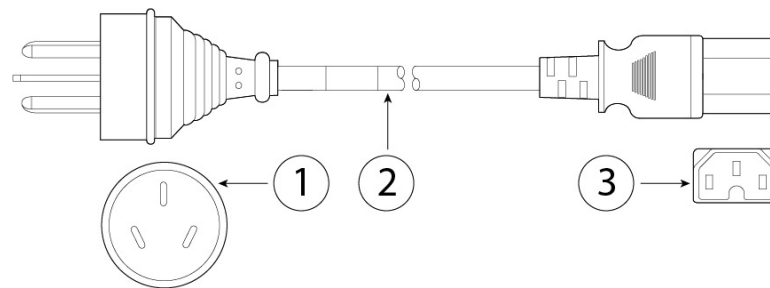
Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to the ESA. The jumper power cords for use in racks are available as an optional alternative to the standard power cords.

If you do not order the optional power cord with the system, you are responsible for selecting the appropriate power cord for the product. Using an incompatible power cord with this product may result in electrical safety hazard. Orders delivered to Argentina, Brazil, and Japan must have the appropriate power cord ordered with the system.

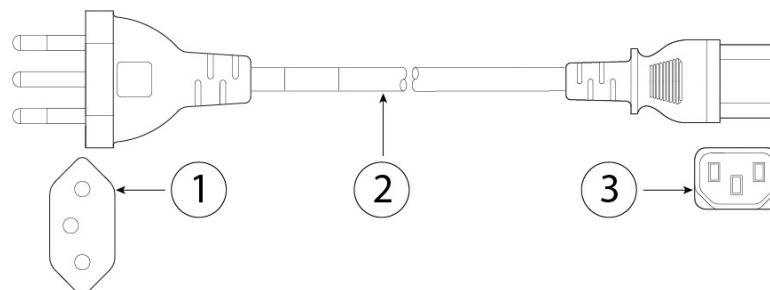
The following power cords and jumper cords are supported.

**Figure 12: Argentina (CAB-250V-10A-AR)**

<b>1</b>	Plug: IRAM 2073	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C13		—

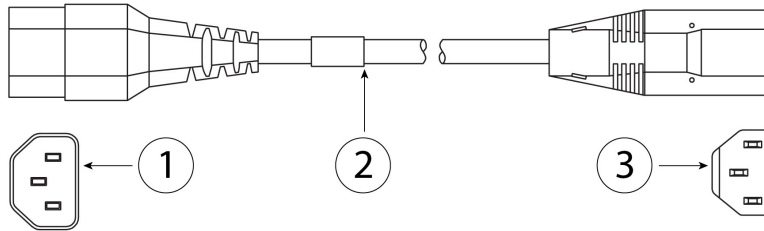
**Figure 13: Australia (CAB-9K10A-AU)**

<b>1</b>	Plug: A.S. 3112-2000	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C15		—

**Figure 14: Brazil (PWR-250V-10A-BZ)**

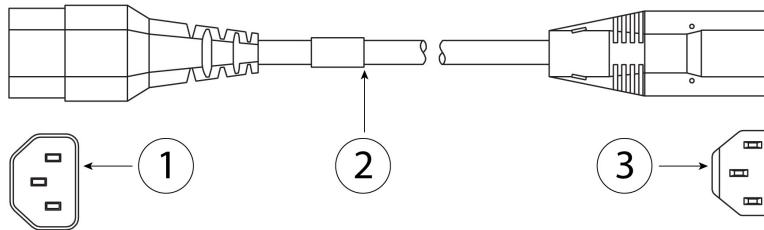
<b>1</b>	Plug: NBR 14136	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C13		—

**Figure 15: Cabinet Jumper (CAB-C13-C14-2M)**



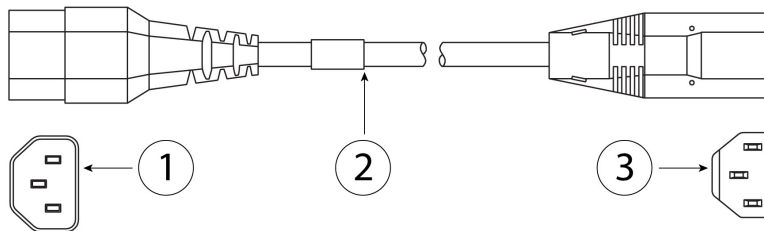
<b>1</b>	Plug: SS10A	<b>2</b>	Cord set rating: 10A, 250V
<b>3</b>	Connector: HS10S, C-13 to C-14		—

**Figure 16: Cabinet Jumper (CAB-C13-C14-AC)**

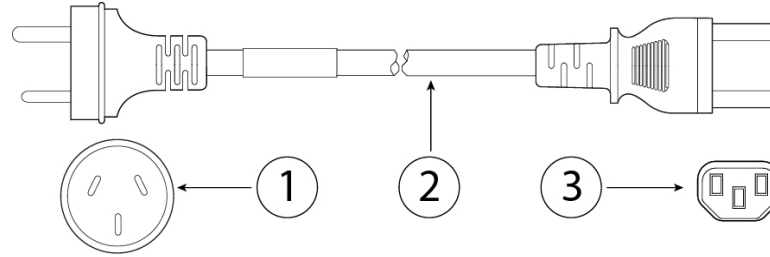


<b>1</b>	Plug: SS10A	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: HS10S, C-13 to C-14 (recessed receptacle)		—

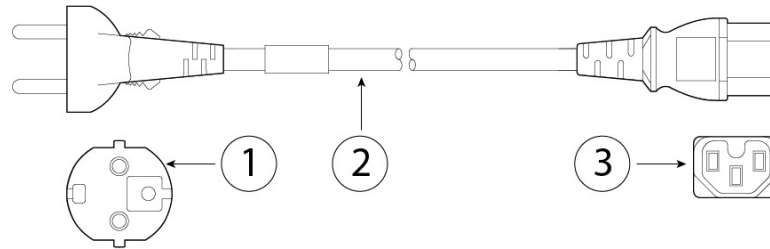
**Figure 17: Cabinet Jumper (CAB-C13-CBN)**



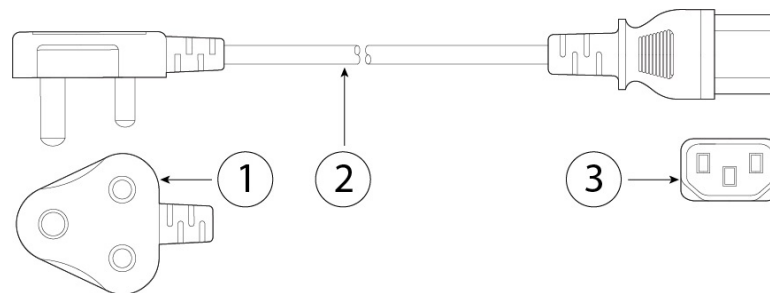
<b>1</b>	Plug: SS10A	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: HS10S, C-13 to C-14		—

**Figure 18: China (CAB-250V-10A-CH)**

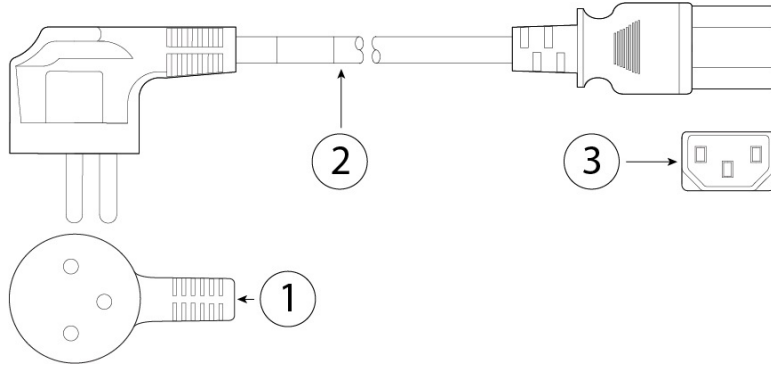
<b>1</b>	Plug: GB2099.1/2008	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C13		—

**Figure 19: Europe (CAB-9K10A-EU)**

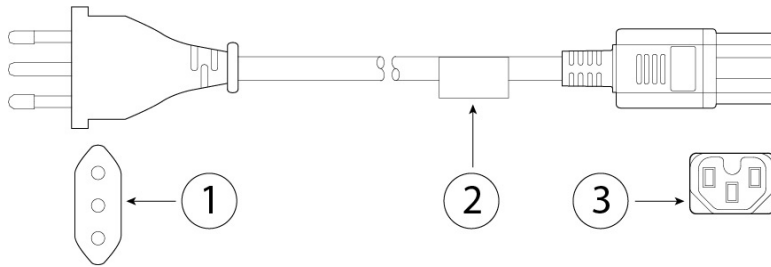
<b>1</b>	Plug: CEE 7/7 (M2511)	<b>2</b>	Cord set rating: 10 A/16 A, 250 V
<b>3</b>	Connector: IEC 60320/C15 (VSCC 15)		—

**Figure 20: India (CAB-250V-10A-ID)**

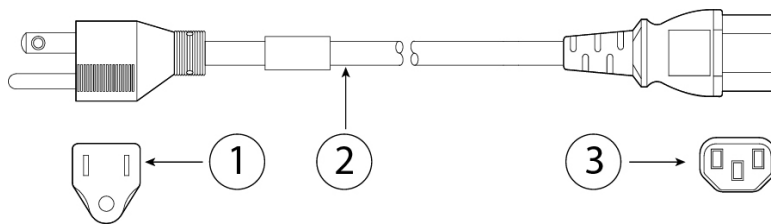
<b>1</b>	Plug: IS 6538-1971	<b>2</b>	Cord set rating: 16 A, 250 V
<b>3</b>	Connector: IEC 60320-C13		—

**Figure 21: Israel (CAB-250V-10A-IS)**

<b>1</b>	Plug: SI-32	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320-C13		—

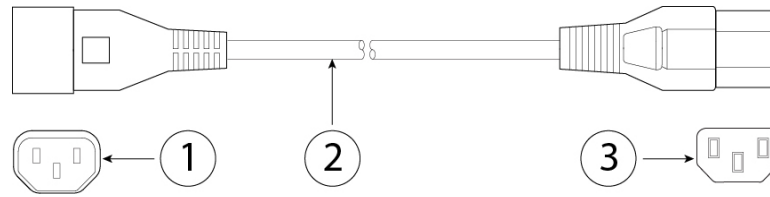
**Figure 22: Italy (CAB-9K10A-IT)**

<b>1</b>	Plug: CEI 23-16/VII (I/3G)	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C15 (EN 60320/C15M)		—

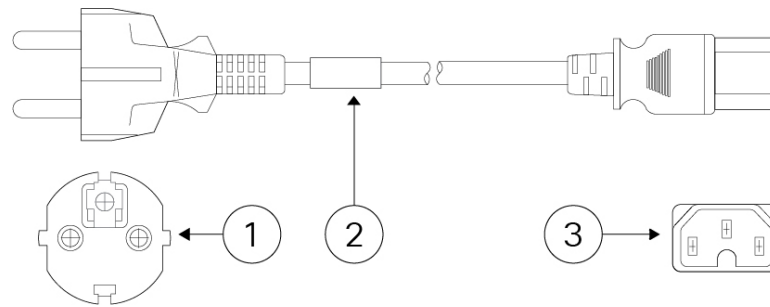
**Figure 23: Japan (CAB-JPN-3PIN)**

<b>1</b>	Plug: JIS 8303	<b>2</b>	Cord set rating: 12 A, 125 V
<b>3</b>	Connector: IEC 60320/C13		—

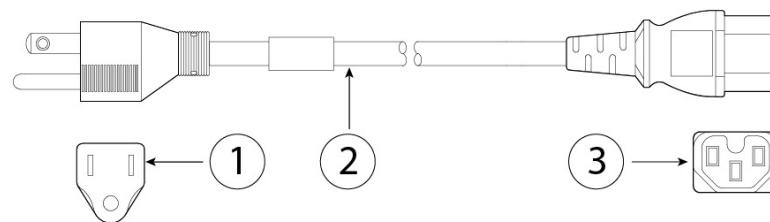


**Figure 24: Japan (CAB-C13-C14-2M-JP)**

<b>1</b>	Plug: EN 60320-2-2/E	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: EN 60320/C13 to C14		—

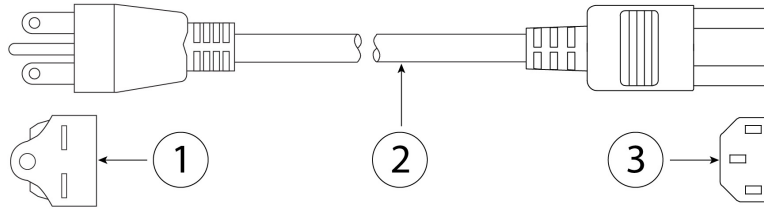
**Figure 25: Korea (CAB-9K10S-KOR)**

<b>1</b>	Plug: EL211 (KSC 8305)	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C15		—

**Figure 26: North America (CAB-9K12A-NA)**

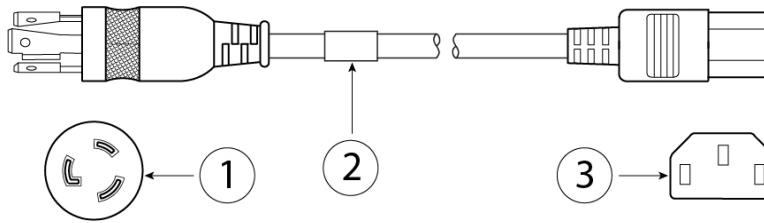
<b>1</b>	Plug: NEMA5-15P	<b>2</b>	Cord set rating: 13 A, 125 V
<b>3</b>	Connector: IEC 60320/C15		—

**Figure 27: North America (CAB-N5K6A-NA)**



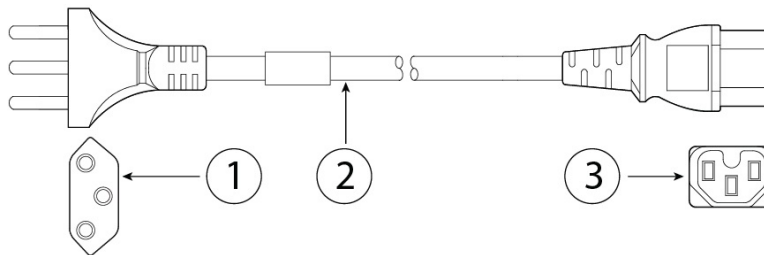
<b>1</b>	Plug: NEMA6-15P	<b>2</b>	Cord set rating: 10 A, 125 V
<b>3</b>	Connector: IEC 60320/C13		—

**Figure 28: North America (CAB-AC-L620-C13)**



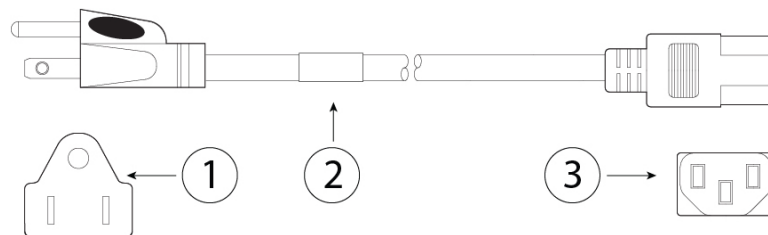
<b>1</b>	Plug: NEMA L6-20 (molded twist lock)	<b>2</b>	Cord set rating: 13 A, 250 V
<b>3</b>	Connector: IEC 60320/C13		—

**Figure 29: Switzerland (CAB-9K10A-SW)**



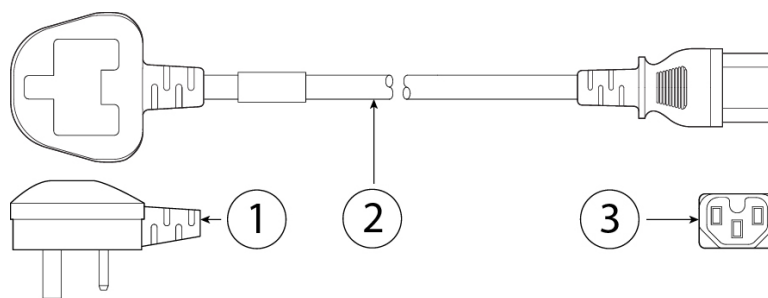
<b>1</b>	Plug: SEV 1011 (MP232-R)	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C15		—

**Figure 30: Taiwan (CAB-ACTW)**



<b>1</b>	Plug: EL 302 (CNS10917)	<b>2</b>	Cord set rating: 10 A, 125 V
<b>3</b>	Connector: IEC 60320/C13		—

**Figure 31: United Kingdom (CAB-9K10A-UK)**



<b>1</b>	Plug: BS1363A/SS145	<b>2</b>	Cord set rating: 10 A, 250 V
<b>3</b>	Connector: IEC 60320/C15		—

