Overview

Features

The Cisco Web Security Appliances (WSA) S195, S395, S695, and S695F help organizations secure and control web traffic.

The WSA S195, S395, S695, and S695F support Cisco AsyncOS version 11.8 and later. See Product ID Numbers, on page 18 for a list of field-replaceable product IDs (PIDs) associated with the WSA security appliances.

The following figures show the Cisco Web Security appliances.

Figure 1: Cisco Web Security S195 and S395

Figure 2: Cisco Web Security S695 and S695F

The following table lists the features of the WSA S195, S395, S695, and S695F.

Table 1: WSA S195, S395, S695, and S695F Features

Feature	S195	S395	S695	S695F
Form factor	1 RU		2 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 5118 After January 2021: One Intel Xeon 5218	Before January 2021: Two Intel Xeon 6126 After January 2021: Two Intel Xeon 6226	
Memory	16-GB RAM	32-GB RAM	64-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 DIMM After January 2021: Two 16-GB DDR4-2933-MHz DIMM	Before January 2021: Four 16-GB DDR4-2400-MHz DIMM After January 2021: Four 16-GB DDR4-2933-MHz DIMM	

Feature	S195	S395	S695	S695F
Management ports	One (M1) M2 is not supported.			
Proxy ports	Two (P1 and P2)			
Traffic ports	Two (T1 and T2)			
Remote power cycling (RPC)	Accessed through the 1-Gb dedicated port			
USB ports	Two USB 3.0 Type A			
SFP+ ports	No			Six fiber optic
Supported SFP+ **Note** These SFPs have been qualified by Cisco. Use only Cisco-qualified SFPs. **Note** Copper SFPs are not supported.	—			GLX-SX-MMD (1 Gb) (optional) SFP-10G-SR (10 Gb) (optional)
Serial console port	One 1-Gb RJ45 serial port running RS-232 (RS-232D TIA-561)			
AC power supply **Note** Do not mix power supply type or wattage between models.	One 770 W AC You can order a second power supply for redundancy as 1+1.	Two 770 W AC Hot-swappable and redundant as 1+1	Two 1050 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 return material authorization (RMA).			
Storage	Two 600-GB SAS HDDs RAID 1, hot-swappable	Four 600-GB SAS HDDs RAID 10, hot-swappable	Sixteen 600-GB SAS HDDs RAID 10, hot-swappable	

Package Contents

The following figure shows the package contents for the WSA S195, S395, S695, and S695F. Note that the contents are subject to change and your exact contents might contain additional or fewer items.

Figure 3: 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 WSA appliance.	6	Two 1-Gb or 10-Gb SFP+ fiber optic transceivers with cables **Note** Supported on the S695F. 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 WSA S195, S395, S695, and S695F is printed on the pullout asset card located on the front panel as shown in the following figure.

Figure 4: Serial Number on Pullout Asset Card
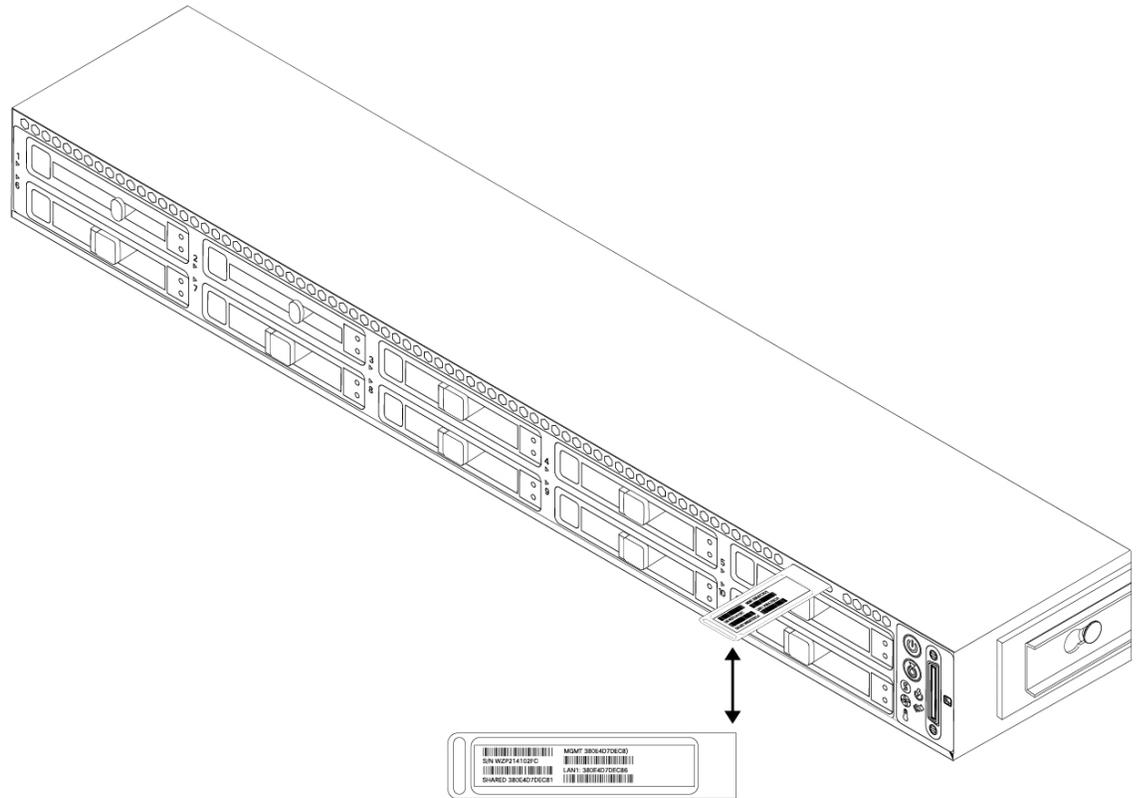
The serial number is also on the label on the cover of the chassis as shown in the following figure.

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Caution The cover latch on the top of the chassis cover is not supported. There are no internal field-replaceable parts in the WSA S195, S395, S695, and S695F.

Figure 5: Serial Number Location on Cover
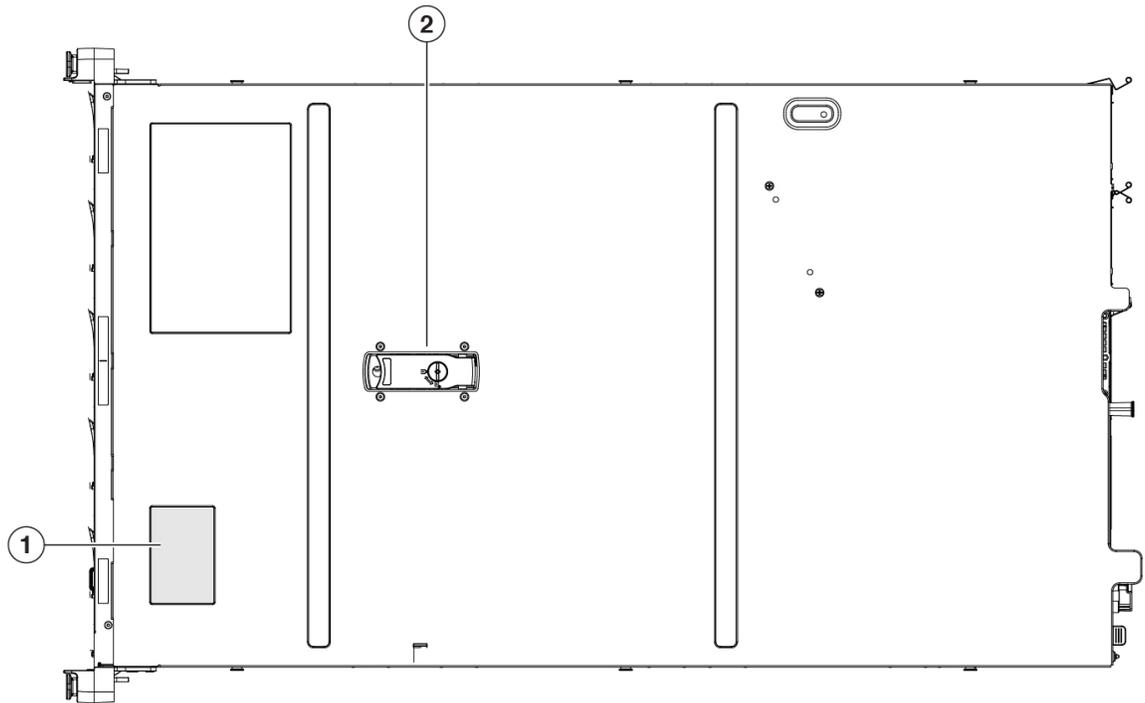
1	Serial number label	2	Cover latch
			Not supported

Front Panel

The following figure shows the front panel features and disk-drive configuration for the WSA S195. See Front Panel LEDs, on page 9 for a description of the LEDs.

Figure 6: S195 Front Panel
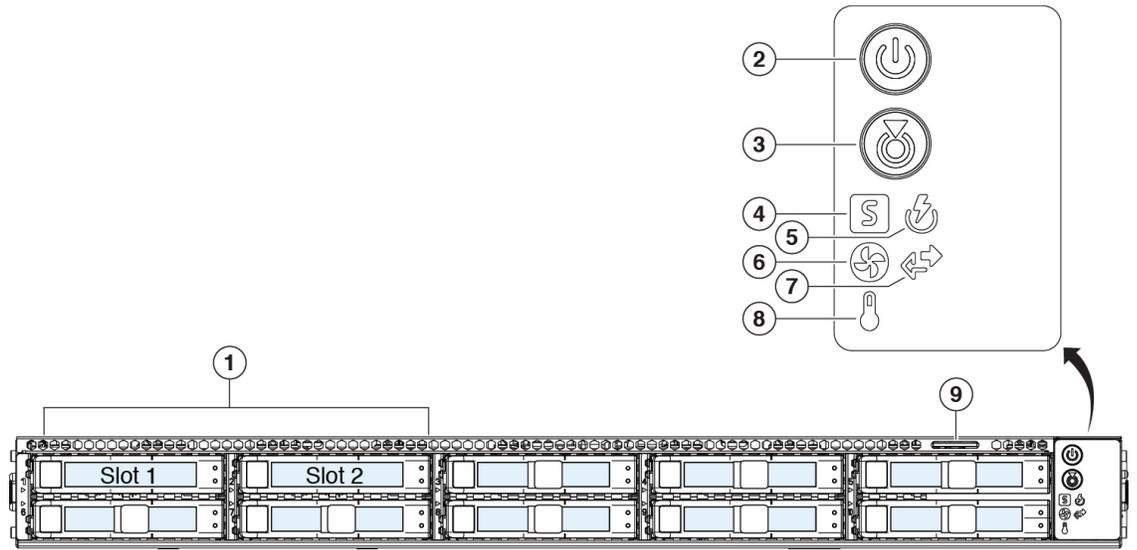
1	Drive bays Supports two 600-GB SAS HDDs in slots 1 and 2	2	Power button/power status LED
3	Unit identification button/LED	4	System status LED
5	Power supply status LED	6	Fan status LED
7	Network link activity LED	8	Temperature status LED
9	Pullout asset card		—

The following figure shows the front panel features and disk-drive configuration for the WSA S395. See Front Panel LEDs, on page 9 for a description of the LEDs.

Front Panel

Figure 7: S395 Front Panel
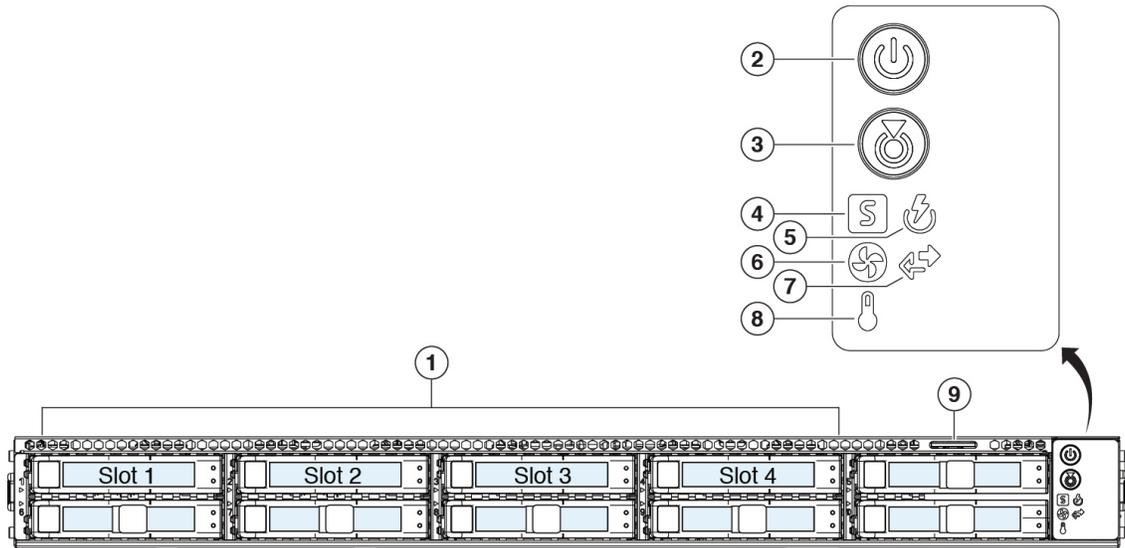
1	Drive bays Supports four 600-GB SAS HDDs in slots 1 through 4	2	Power button/power status LED
3	Unit identification button/LED	4	System status LED
5	Power supply status LED	6	Fan status LED
7	Network link activity LED	8	Temperature status LED
9	Pullout asset card		—

The following figure shows the front panel features and disk-drive configuration for the WSA S695 and S695F. See for a description of the LEDs.

Figure 8: S695 and S695F Front Panel Features
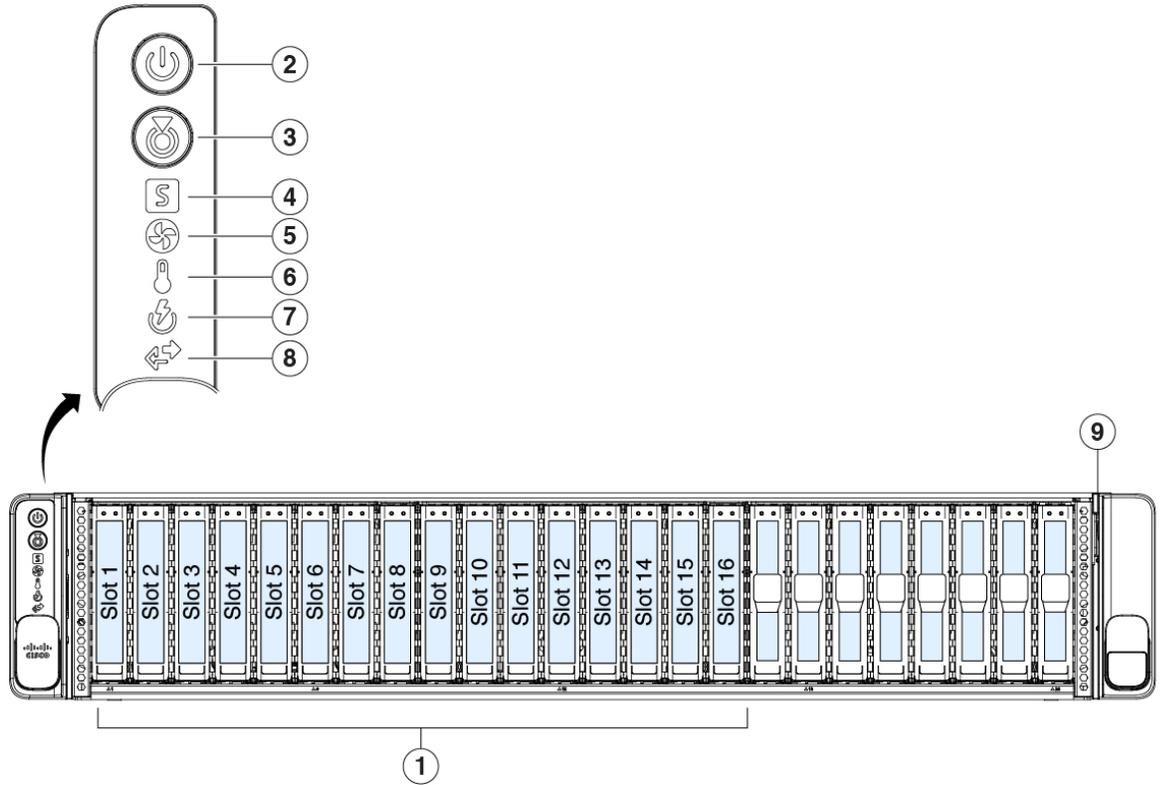
1	Drive bays Supports sixteen 600-GB SAS HDDs in slots 1 through 16	2	Power button/power status LED
3	Unit identification button/LED	4	System status LED
5	Fan status LED	6	Temperature status LED
7	Power supply status LED	8	Network link activity LED
9	Pullout asset card		—

Front Panel LEDs

The following figure shows the front panel LEDs for the S195, S395, S695, and S695F, and describes their states.

Figure 9: Front Panel LEDs and Their States

1	Drive fault LED:	2	Drive activity LED:
	• Off—The drive is operating properly. • Amber—Drive fault detected. • Amber, flashing—The drive is rebuilding. • Amber, flashing with 1-second interval—Drive locate function activated in the software.		• Off—There is no drive in the drive tray (no access, no fault). • Green—The drive is ready. • Green, flashing—The drive is reading or writing data.
3	Power LED: • Off—There is no AC power to the chassis. • Amber—The chassis is in standby mode. • Green—The chassis is in main power mode. Power is supplied to all components.	4	Unit identification LED: • Off—The unit identification function is not in use. • Blue, flashing—The unit identification function is activated.

5	System status LED:	6	Power supply status LED:
	• Green—The chassis is running in normal operating condition.		• Green—All power supplies are operating normally.
	• Green, flashing—The chassis is performing system initialization and memory check.		• Amber—One or more power supplies are in a degraded operational state.
	• Amber—The chassis is in a degraded operational state (minor fault).		• Amber, flashing—One or more power supplies are in a critical fault state.
	• Power supply redundancy is lost.		
	• CPUs are mismatched.		
	• At least one CPU is faulty.		
	• At least one DIMM is faulty.		
	• At least one drive in a RAID configuration failed.		
	• Amber, 2 flashes—There is a major fault with the system board.		
	• Amber, 3 flashes—There is a major fault with the DIMMs.		
	• Amber, 4 flashes—There is a major fault with the CPUs.		
7	Fan status LED:	8	Network link activity LED:
	• Green—All fans are operating properly.		• Off—The Ethernet port link is idle.
	• Amber, flashing—One or more fans breached the nonrecoverable threshold.		• Green—One or more Ethernet ports are link-active, but there is no activity.
			• Green, flashing—One or more Ethernet ports are link-active with activity.
9	Temperature status LED:		—
	• Green—The chassis is operating at normal temperature.		
	• Amber—One or more temperature sensors breached the critical threshold.		
	• Amber, flashing—One or more temperature sensors breached the nonrecoverable threshold.		

Rear Panel

The following figure shows the rear panel of the WSA S195 and S395. See for a description of the LEDs.

Figure 10: S195 and S395 Rear Panel

1	USB 3.0 Type A (USB 1)	2	USB 3.0 Type A (USB 2)
3	Management interface (M1) Restricted to management use only	4	Management interface (M2) Not in use
5	RPC port (RPC) Use for remote power cycling.	6	Serial console port (Console) RJ-45 connector that directly connects a management computer to the appliance.
7	Unit identification button	8	770-W AC power supply (PSU 1)
9	770-W AC power supply (PSU 2) The S195 ships with one power supply, but you can order a second one for redundancy. The S395 ships with two power supplies.	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	Proxy port 1 (P1) Connects to the network for both incoming and outgoing traffic.	12	Proxy port 2 (P2) When P1 and P2 are both enabled, you must connect P1 to the internal network and P2 to the internet. **Note** You can connect P1 and P2 to an L4 switch, WCCP router, or network switch.
13	Traffic monitor port 1 (T1) Use for Duplex Ethernet tap; one cable for all incoming and outgoing traffic.	14	Traffic monitor port 2 (T2) Use for Simplex Ethernet tap; one cable connected to T1 for all packets going to the internet. and one cable connected to T2 for all packets coming from the internet.
15	Riser handle Not supported		—

The following figure shows the rear panel of the WSA S695. See Rear Panel LEDs, on page 15 for a description of the LEDs.

Figure 11: S695 Rear Panel

1	Proxy port 1 (P1) Connects to the network for both incoming and outgoing traffic.	2	Proxy port 2 (P2) When P1 and P2 are both enabled, you must connect P1 to the internal network and P2 to the internet. **Note** You can connect P1 and P2 to an L4 switch, WCCP router, or network switch.
3	Traffic monitor port 1 (T1) Use for Duplex Ethernet tap; one cable for all incoming and outgoing traffic.	4	Traffic monitor port 2 (T2) Use for Simplex Ethernet tap; one cable connected to T1 for all packets going to the internet. and one cable connected to T2 for all packets coming from the internet.
5	1050-W AC power supply (PSU 1)	6	1050-W AC power supply (PSU 2)
7	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.	8	USB 3.0 Type A (USB 1)
9	USB 3.0 Type A (USB 2)	10	Management interface 1 (MGMT 1) Restricted to management use only
11	Management interface 2 (MGMT 2) Not in use	12	RPC port (RPC) Use for remote power cycling.
13	Serial console port (Console) RJ-45 connector that directly connects a management computer to the appliance.	14	Unit identification button

The following figure shows the rear panel of the WSA S695F. See Rear Panel LEDs, on page 15 for a description of the LEDs.

Figure 12: S695F Rear Panel

1	Traffic monitor port 1 (T1)	2	Traffic monitor port 2 (T2)
	Use for Duplex Ethernet tap; one cable for all incoming and outgoing traffic.		Use for Simplex Ethernet tap; one cable connected to T1 for all packets going to the internet. and one cable connected to T2 for all packets coming from the internet.
	1/10-Gigabit Ethernet SFP+ support		1/10-Gigabit Ethernet SFP+ support
	Note The GLX-SX-MMD (1 Gb) and SFP-10G-SR (10 Gb) are the only SFP+ transceivers qualified by Cisco. Use only Cisco-qualified SFPs.		**Note** The GLX-SX-MMD (1 Gb) and SFP-10G-SR (10 Gb) are the only SFP+ transceivers qualified by Cisco. Use only Cisco-qualified SFPs.
	Note Copper SFPs are not supported.		**Note** Copper SFPs are not supported.
3	Proxy port 1 (P1)	4	Proxy port 2 (P2)
	Connects to the network for both incoming and outgoing traffic.		When P1 and P2 are both enabled, you must connect P1 to the internal network and P2 to the internet.
	1/10-Gigabit Ethernet SFP+ support		**Note** You can connect P1 and P2 to an L4 switch, WCCP router, or network switch.
	Note The GLX-SX-MMD (1 Gb) and SFP-10G-SR (10 Gb) are the only SFP+ transceivers qualified by Cisco. Use only Cisco-qualified SFPs.		1/10-Gigabit Ethernet SFP+ support
	Note Copper SFPs are not supported.		**Note** The GLX-SX-MMD (1 Gb) and SFP-10G-SR (10 Gb) are the only SFP+ transceivers qualified by Cisco. Use only Cisco-qualified SFPs.
			Note Copper SFPs are not supported.
5	1050-W AC power supply (PSU 1)	6	1050-W AC power supply (PSU 2)

7	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.	8	Management interface 2 (MGMT 2) Not supported
9	Management interface 1 (MGMT 1) Restricted to management use only	10	USB 3.0 Type A (USB 1)
11	USB 3.0 Type A (USB 2)	12	Data interface (DATA 1)
13	Data interface (DATA 2)	14	RPC port (RPC) Use for remote power cycling.
15	Serial console port (RJ-45 connector that directly connects a management computer to the appliance.	16	Unit identification button

Rear Panel LEDs

The following figure shows the rear panel LEDs of the WSA S195 and describes their states. The S395 is the same except it has two power supplies. The S695 and S695F have the same LEDs except that these models have more data interfaces; the speed and status LED descriptions are the same.

Figure 13: S195 and S395 Rear Panel LEDs and Their States

1	Interface link speed: • Off—Link speed is 100 Mbps. • Amber—Link speed is 1 Gbps. • Green—Link speed is 10 Gbps.	2	Interface link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.
3	Data interface link speed: • Off—Link speed is 10 Mbps. • Amber—Link speed is 100 Mbps. • Green—Link speed is 1 Gbps.	4	Data interface link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.

5	Rear unit identification: • Off—The unit identification function is not in use. • Blue, flashing—The unit identification function is activated.	6	Power supply: • Off—No AC input (12-V main power off; 12-V standby power off) • Green, flashing—12-V main power off; 12-V standby power on. • Green—12-V main power on; 12-V standby power on. • Amber, flashing—Warning threshold detected but 12-V main power on. • Amber—Critical error detected; 12-V main power off (for example, overcurrent, overvoltage, or overtemperature failure).

Power Supply

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 WSA S195 and S395.

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
Power supply output voltage	12 V DC
Power supply standby voltage	12 V DC

Description	Specification
Efficiency rating	Climate Savers Platinum Efficiency (80 Plus Platinum certified)
Form factor	RSP2
Input connector	IEC320 C13/C15

The following table lists the specifications for the 1050-W AC power supply (Cisco part number 341-0638-03) used in the WSA S695 and S695F.

Table 3: 1050-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	12.5 A peak at 100 V AC 6.0 A peak at 208 V AC
Maximum input volt amperes	1250 VA at 100 V AC
Maximum output power for each power supply	1050 W
Maximum inrush current	15 A (subcycle duration)
Maximum hold-up time	12 ms at 1050 W
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 C14

Hardware Specifications

The following table lists the hardware specifications for the WSA S195, S395, S695, and S695F.

Table 4: WSA S195, S395, S695, and S695F Hardware Specifications

Specification	S195	S395	S695	S695F
Weight	31 lb (14.06 kg)	33.5 lb (15.19 kg)	30.8 lb (13.97 kg)	52.2 lb (23.68 kg)
Dimensions (H x W x D)	1.7 x 16.89 x 29.8 inches (4.32 x 43.0 x 75.6 cm)		3.4 x 16.9 x 29.5 inches (8.64 x 42.92 x 74.93 cm)	
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 PIDs associated with WSA S195, S395, S695, and S695F. 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 5: WSA S195, S395, S695, and S695F PIDs

PID	Description
CCS-HDD-600GB10K	WSA S195, S395, S695, S695F HDD
CCS-HDD-600GB10K=	WSA S195, S395, S695, S695F HDD (spare)
CCS-PSU1-770AC	WSA S195 and S395 770 AC power supply
CCS-PSU1-770AC=	WSA S195 and S395 770 AC power supply (spare)
CCS-PSU1-1050AC	WSA S695 and S695F 1050 AC power supply

PID	Description
CCS-PSU1-1050AC=	WSA S695 and S695F 1050 AC power supply (spare)
UCSC-RAILB-M4	WSA S195, S395, S695, and S695F rail kit
UCSC-RAILB-M4=	WSA S195, S395, S695, and S695F rail kit (spare)
UCSC-BZL-C220M5	WSA S195 and S395 1 RU locking faceplate
UCSC-BZL-C220M5=	WSA S195 and S395 1 RU locking faceplate (spare)
UCSC-BZL-C240M5	WSA S695 and S695F 2 RU locking faceplate
UCSC-BZL-C240M5=	WSA S695 and S695F 2 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 WSA. 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 a 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 14: Argentina CAB-250V-10A-AR
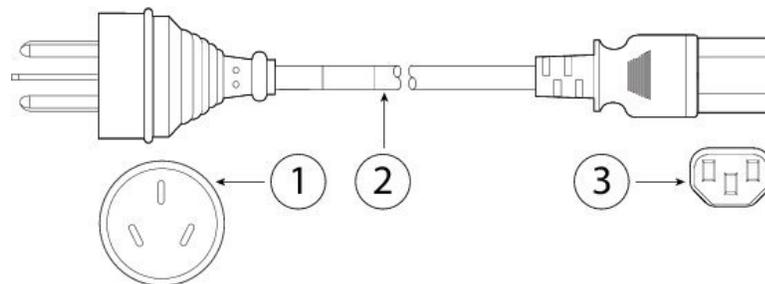
1	Plug: IRAM 2073	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		

Figure 15: Australia CAB-9K10A-AU
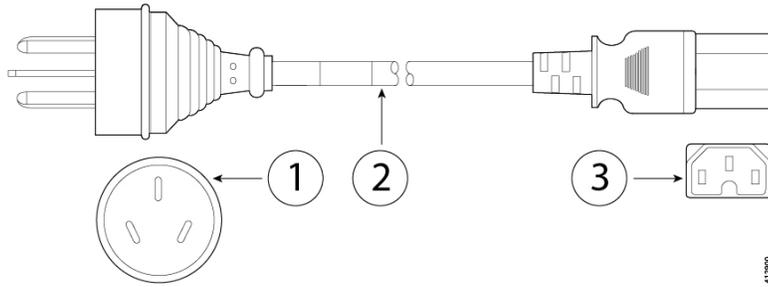
1	Plug: A.S. 3112-2000	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		

Figure 16: Brazil PWR-250V-10A-BZ
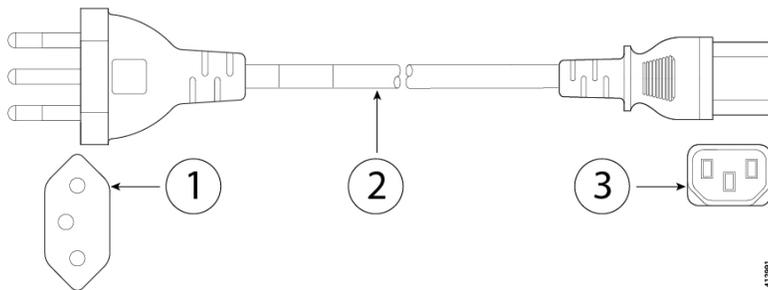
1	Plug: NBR 14136	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		

Figure 17: Cabinet Jumper CAB-C13-C14-2M
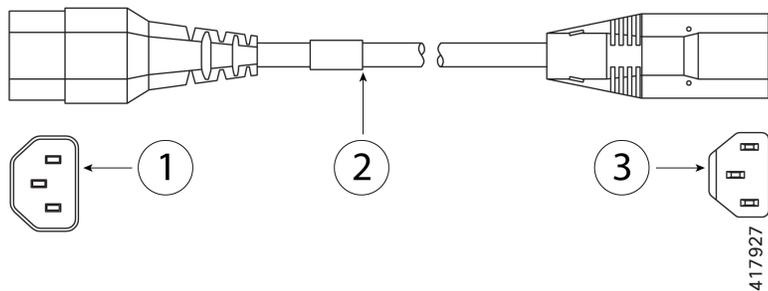
1	Plug: SS10A	2	Cord set rating: 10A, 250V
3	Connector: HS10S, C-13 to C-14		

Figure 18: Cabinet Jumper CAB-C13-C14-AC
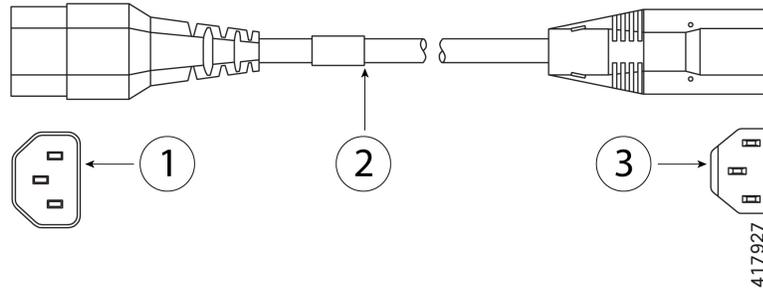
1	Plug: SS10A	2	Cord set rating: 10 A, 250 V
3	Connector: HS10S, C-13 to C-14 (recessed receptacle)		

Figure 19: Cabinet Jumper CAB-C13-CBN
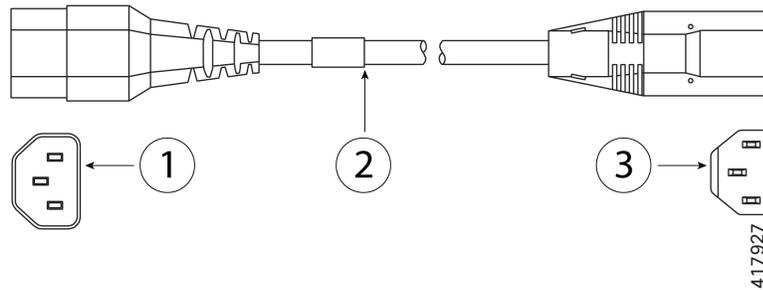
1	Plug: SS10A	2	Cord set rating: 10 A, 250 V
3	Connector: HS10S, C-13 to C-14		

Figure 20: China CAB-250V-10A-CH
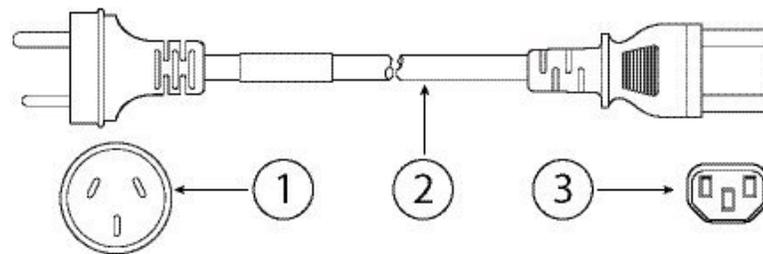
1	Plug: GB2099.1/2008	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		

Figure 21: Europe CAB-9K10A-EU
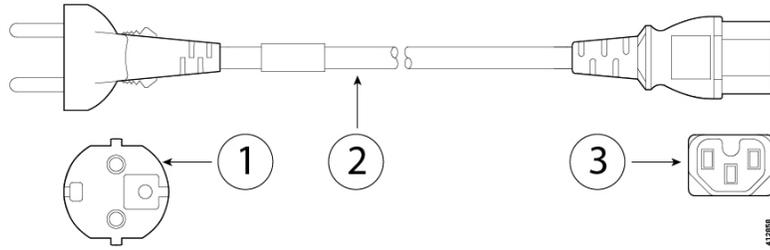
1	Plug: CEE 7/7 (M2511)	2	Cord set rating: 10 A/16 A, 250 V
3	Connector: IEC 60320/C15 (VSCC 15)		

Figure 22: India CAB-250V-10A-ID
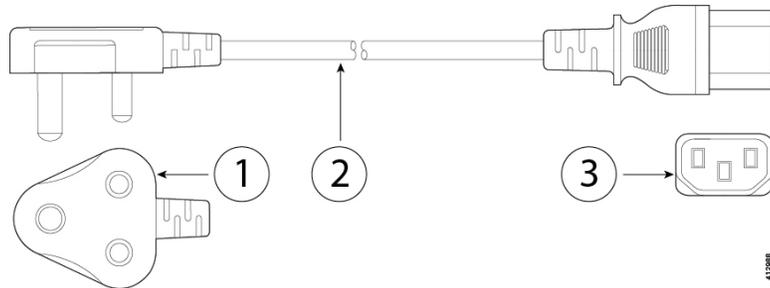
1	Plug: IS 6538-1971	2	Cord set rating: 16 A, 250 V
3	Connector: IEC 60320-C13		

Figure 23: Israel CAB-250V-10A-IS
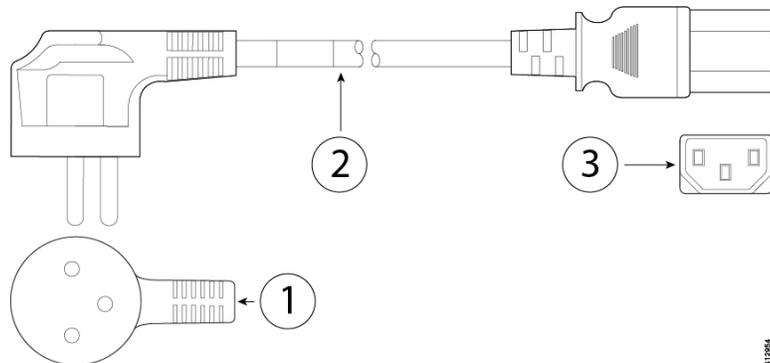
1	Plug: SI-32	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320-C13		

Figure 24: Italy CAB-9K10A-IT
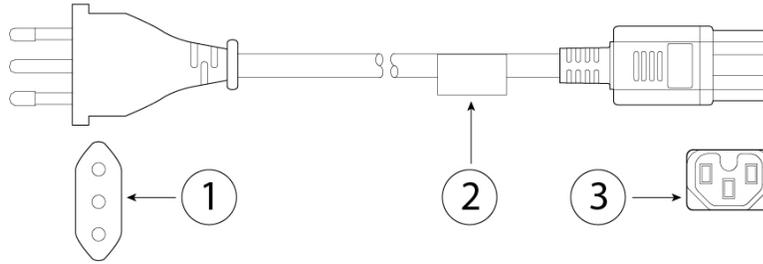
1	Plug: CEI 23-16/VII (I/3G)	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15 (EN 60320/C15M)		

Figure 25: Japan CAB-JPN-3PIN
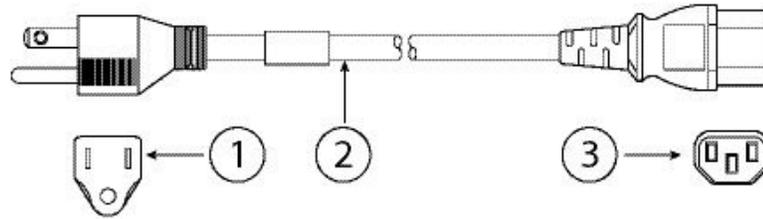
1	Plug: JIS 8303	2	Cord set rating: 12 A, 125 V
3	Connector: IEC 60320/C13		

Figure 26: Japan CAB-C13-C14-2M-JP
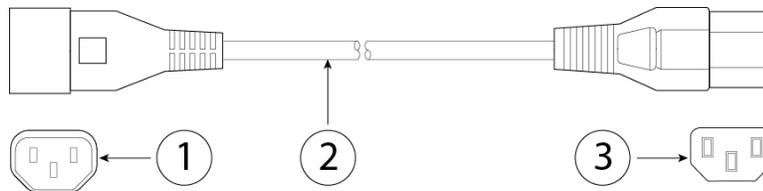
1	Plug: EN 60320-2-2/E	2	Cord set rating: 10 A, 250 V
3	Connector: EN 60320/C13 to C14		

Figure 27: Korea CAB-9K10S-KOR
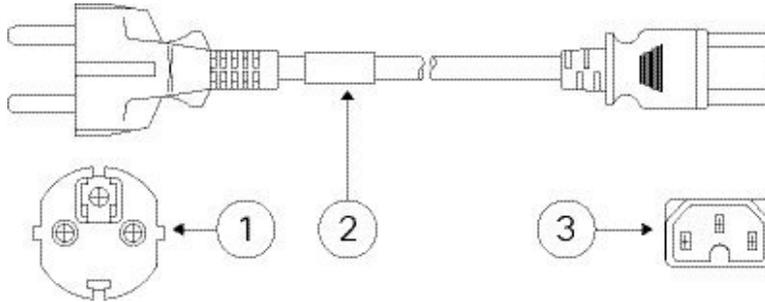
1	Plug: EL211 (KSC 8305)	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		

Figure 28: North America CAB-9K12A-NA
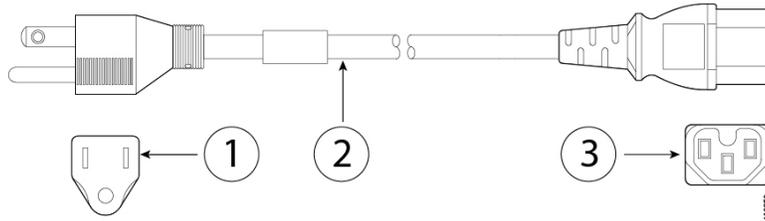
1	Plug: NEMA5-15P	2	Cord set rating: 13 A, 125 V
3	Connector: IEC 60320/C15		

Figure 29: North America CAB-N5K6A-NA
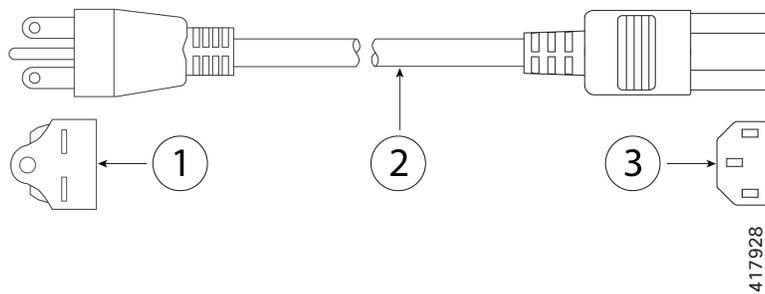
1	Plug: NEMA6-15P	2	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C13		

Figure 30: North America CAB-AC-L620-C13
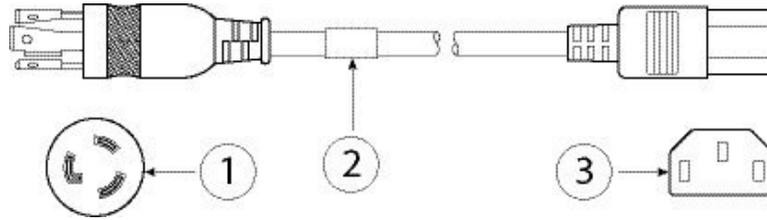
1	Plug: NEMA L6-20 (molded twist lock)	2	Cord set rating: 13 A, 250 V
3	Connector: IEC 60320/C13		

Figure 31: Switzerland CAB-9K10A-SW
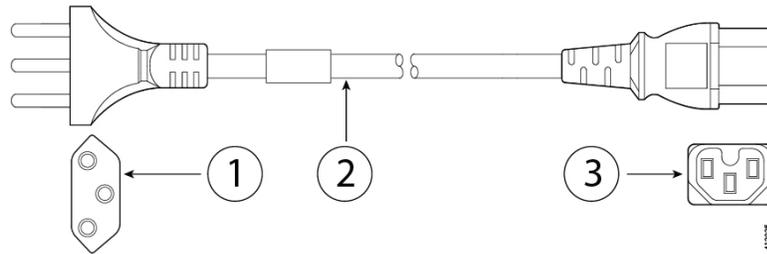
1	Plug: SEV 1011 (MP232-R)	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		

Figure 32: Taiwan CAB-ACTW
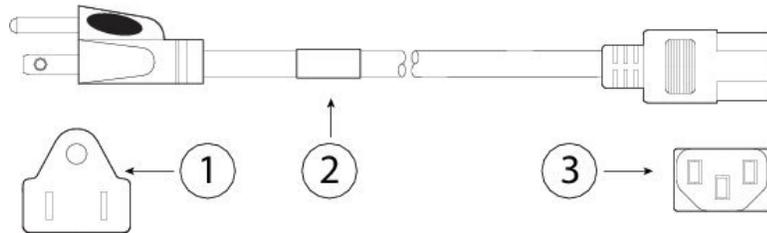
1	Plug: EL 302 (CNS10917)	2	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C13		

Figure 33: United Kingdom CAB-9K10A-UK
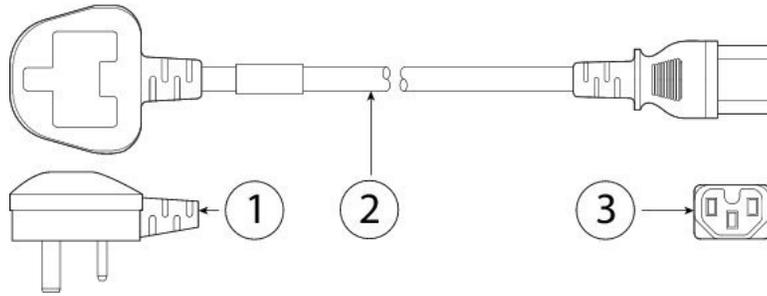
1	Plug: BS1363A/SS145	2	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		