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Features

The Cisco Secure Firewall Management Center series includes three models: FMC1700, FMC2700, and FMC4700. The Firewall Management Center series runs software that provides extensive intelligence about the users, applications, devices, threats, and vulnerabilities that exist in your network. It also uses this information to analyze your network's vulnerabilities. It then provides tailored recommendations on what security policies to put in place and what security events you should investigate.

The Firewall Management Center series supports Cisco Secure Threat Defense software. See the Cisco Firepower Compatibility Guide, which provides Cisco Secure software and hardware compatibility, including operating system and hosting environment requirements, for each supported version.

The following figure shows the FMC4700.

Figure 1: FMC4700



The following table lists the features of the Firewall Management Center series.

Table 1: FMC1700, FMC2700, and FMC4700 Features

Feature	FMC1700	FMC2700	FMC4700
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 and the MAC address for the two management ports (eth0 and eth1)		
Grounding hole	Two threaded holes for a dual-hole grounding lug Use is optional; the supported AC power supplies have internal grounding, so no additional chassis grounding is required.		
Unit identification button	On the front panel		
Power button	On the rear panel		
System memory	32 GB	64 GB	128 GB

Feature	FMC1700	FMC2700	FMC4700
Cisco Integrated Management Controller (CIMC) port	One built-in 1-Gigabit Ethernet RJ45 port Support for 100/1000/10000 Mbps **Note** CIMC is supported *only* for Lights-Out Management (LOM) access. CIMC is *not* supported on any other interfaces.		
Management ports	Two built-in 10-Gigabit Ethernet RJ45 OCP 3.0 NIC SFP+ ports (eth0 and eth1) Support for 100/1000/10000 Mbps The primary management port is eth0. You can use eth1, eth2, and eth3 as secondary management or event ports.		
USB ports	Two USB 3.0 Type A ports		
VGA port	One 3-row 15-pin DB-15 connector Enabled by default		
SFP ports	Two fixed SFP+ ports (eth2 and eth3)		
RJ-45 ports	Two fixed RJ-45 ports (eth0 and eth1)		
Supported SFP+[1]	SFP-10G-SR (10 Gbps) SFP-10G-LR (10 Gbps)	SFP-10G-SR (10 Gbps) SFP-10G-LR (10 Gbps)	SFP-10G-SR (10 Gbps) SFP-10G-LR (10 Gbps) SFP-25G-SR-S (25 Gbps) SFP-10/25G-LR-S (25 Gbps) SFP-10/25G-CSR-S (25 Gbps)
Serial console port	RJ-45 serial port running RS-232 (RS-232D TIA-561)		
System power	Two 1050-W AC power supplies Hot-swappable and redundant as 1+1		
Power consumption	2626 BTU/hr		
Fans	Eight fans for front-to-rear cooling Internal component only; not field-replaceable		
Storage	Two 1.2-TB 10-K SAS SFF HDDs RAID 1, hot-swappable	Four 600-GB 10-K SAS SFF HDDs RAID 5, hot-swappable	Ten 1.2-TB 10-K SAS SFF HDDs RAID 6, hot-swappable

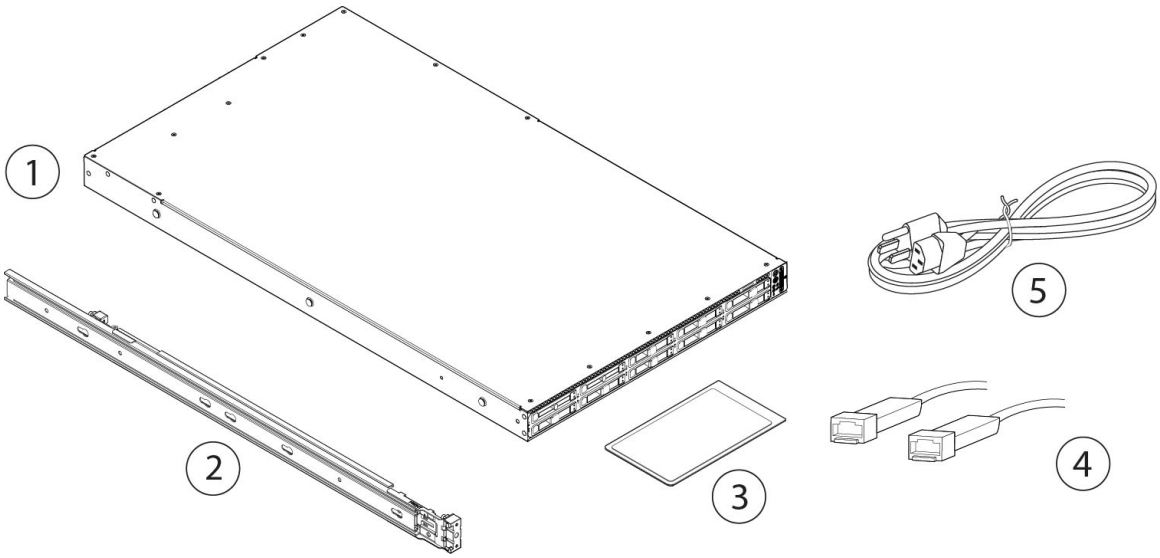
Feature	FMC1700	FMC2700	FMC4700
RAID controller	1 The chassis has a dedicated internal riser for a PCIe-style Cisco modular RAID controller card. Internal component only; not field replaceable.		

[1] Use only SFPs that have been qualified for use on the management center. Although non-Cisco SFPs and other Cisco SFPs are allowed, we do not recommend using them because they have not been tested and validated by Cisco. Cisco TAC may refuse support for any interoperability problems that result from using an untested SFP transceiver.

Package Contents

The following figure shows the package contents for the Firewall Management Center series. Note that the contents are subject to change and your exact contents might contain additional or fewer items.

Figure 2: FMC1700, FMC2700, and FMC4700 Package Contents



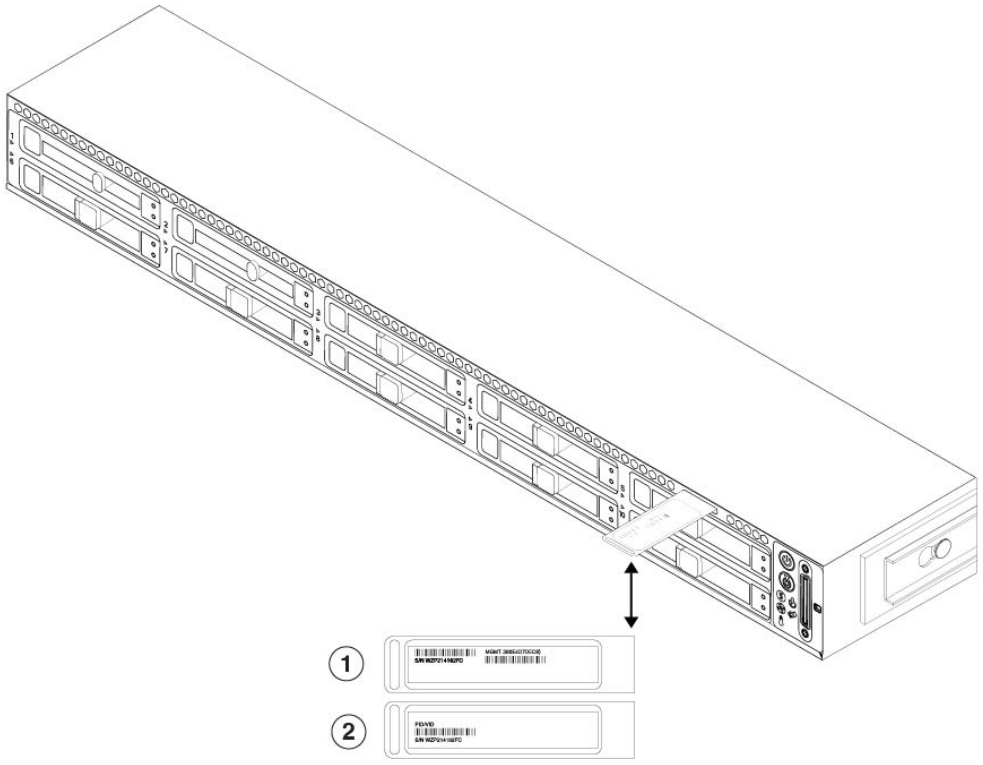
1	Chassis	**2**	Cisco rail kit (Cisco part number 800-49567-01)

3	*Cisco Secure Management Center 1700, 2700, and 4700* This document has links to the hardware installation guide, regulatory and safety information guide, and warranty and licensing information. It also contains a QR code and URL that point to the Digital Documentation Portal. The portal contains links to the product information page, the hardware installation guide, the regulatory and safety information guide, and the getting started guide.	**4**	Two 10-Gbps SFP+ transceivers with cables supported for all models or 25-Gbps SFP+ transceivers with cables supported for the FMC4700 Optional for all models; in package if ordered.
5	Power cord See Power Cord Specifications, on page 17 for a list of approved power cords.		—

Serial Number Locations

The Serial Number (SN) and the Media Access Control (MAC) address for the chassis are printed on the top of the pullout asset card located on the front panel as shown in the following figure. The PID (Product ID) and VID (Version ID) are printed on the back of the pullout asset card.

Figure 3: Serial Number on Pullout Asset Card

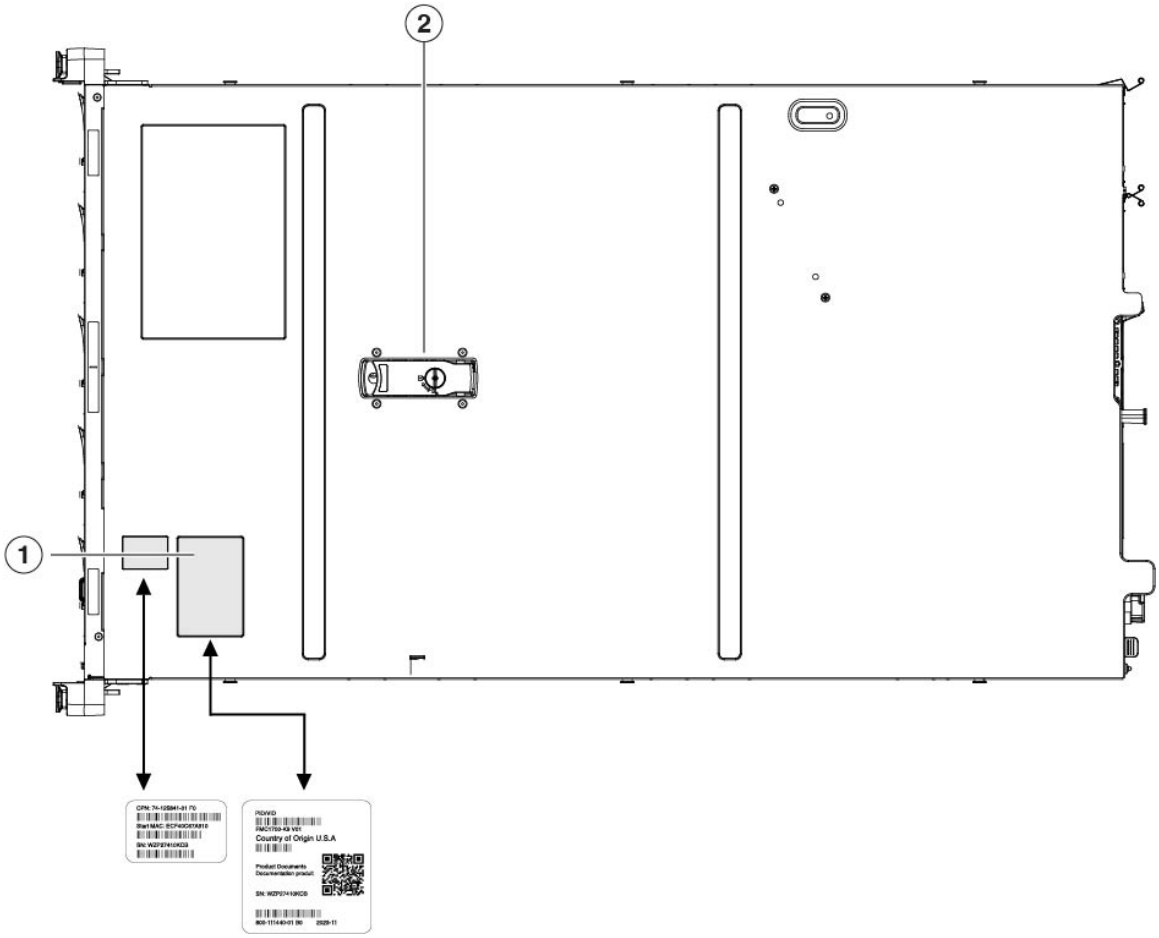


1	Front of the pullout asset tag with the SN and MAC address	**2**	Bottom of the pullout asset tag with the PID and VID numbers

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 chassis.

Figure 4: Serial Number and Documentation Portal Location on the Cover

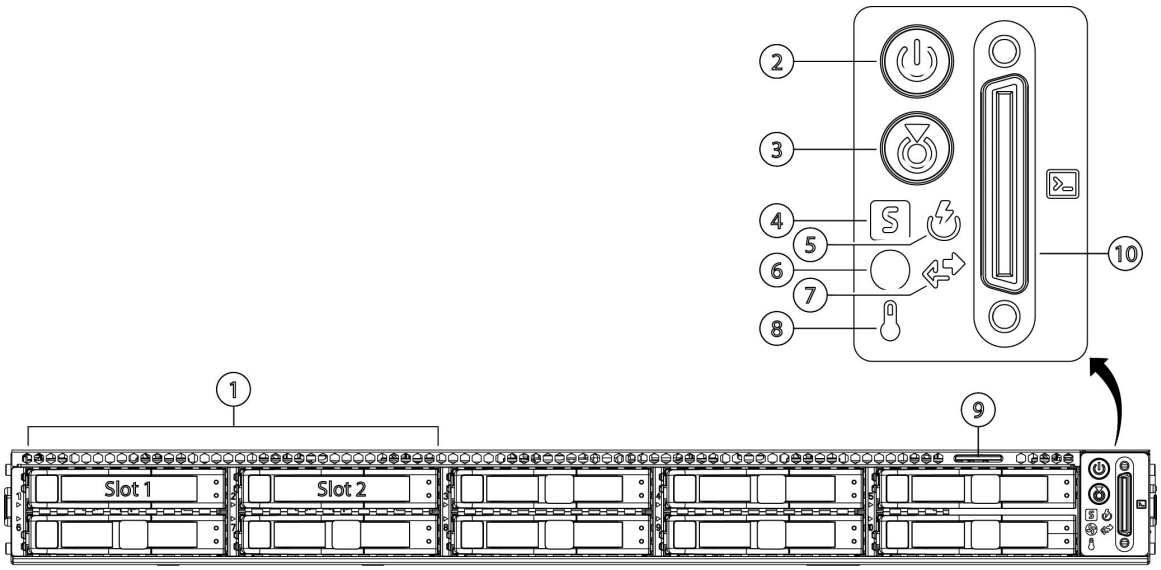


1	Chassis compliance labels with the SN, MAC address, etc. and a QR code that points to the Documentation Portal **Note** Scan the QR code to go to the Documentation Portal, which has links to the product page, hardware installation guide, the regulatory and compliance guide, and the getting started guide.	**2**	Cover latch Not supported

Front Panel

The following figure shows the front panel features and disk-drive configuration for the FMC1700. See Front Panel LEDs, on page 9 for a description of the LEDs.

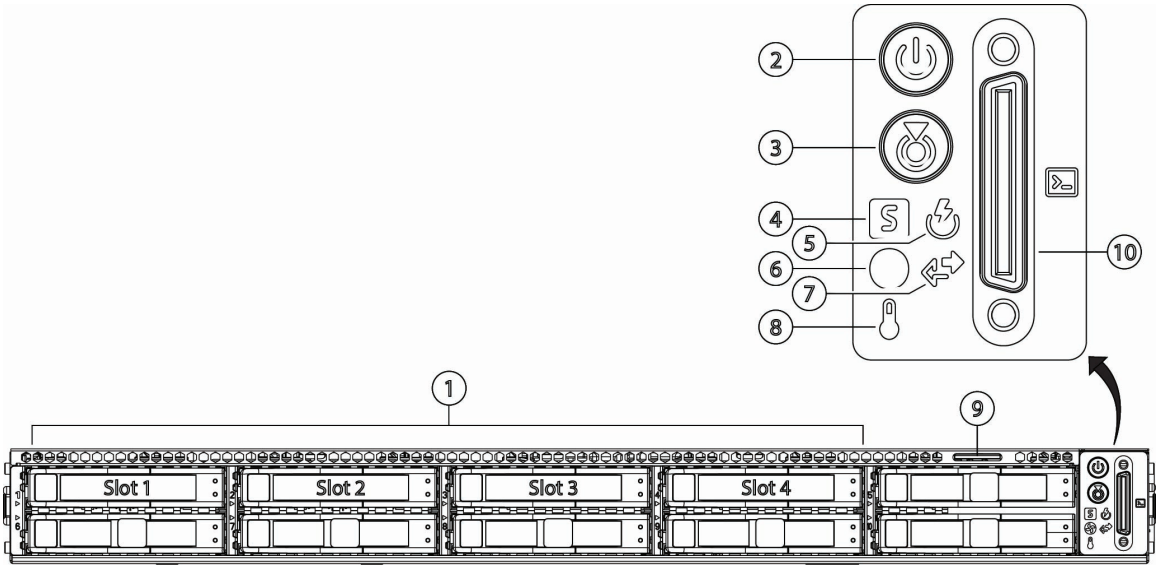
Figure 5: FMC1700 Front Panel



1	Drive bays Supports two 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	**10**	Keyboard, video, and mouse (KVM) port Not supported; use the VGA and USB keyboard ports instead.

The following figure shows the front panel features and disk-drive configuration for the FMC2700. See Front Panel LEDs, on page 9 for a description of the LEDs.

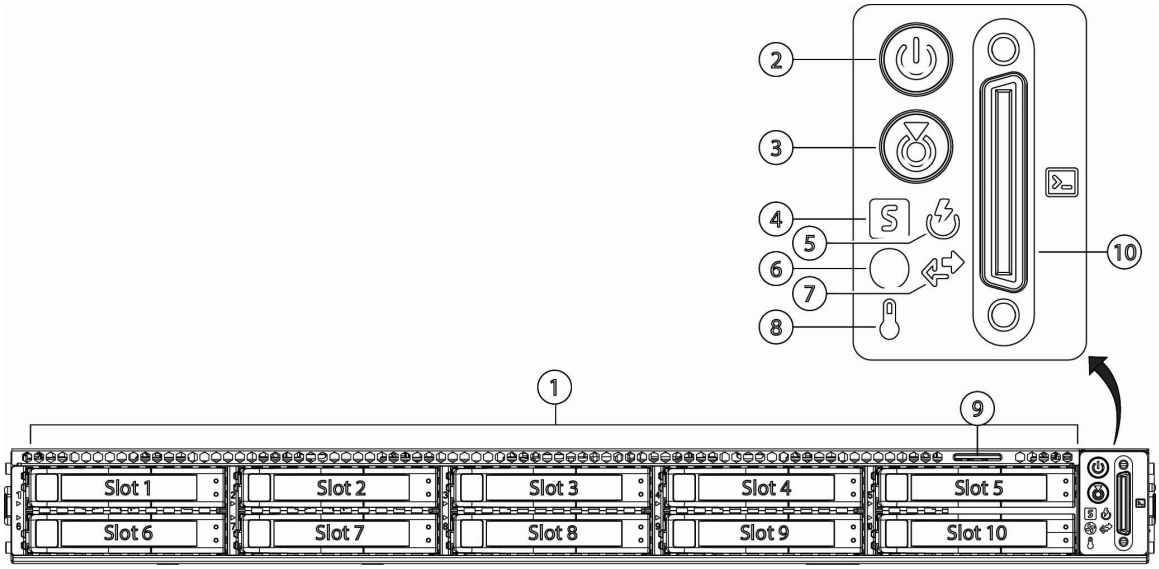
Figure 6: FMC2700 Front Panel



1	Drive bays Supports four 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	**10**	KVM port Not supported; use the VGA and USB keyboard ports instead.

The following figure shows the front panel features and disk-drive configuration for the FMC4700. See Front Panel LEDs, on page 9 for a description of the LEDs.

Figure 7: FMC4700 Front Panel

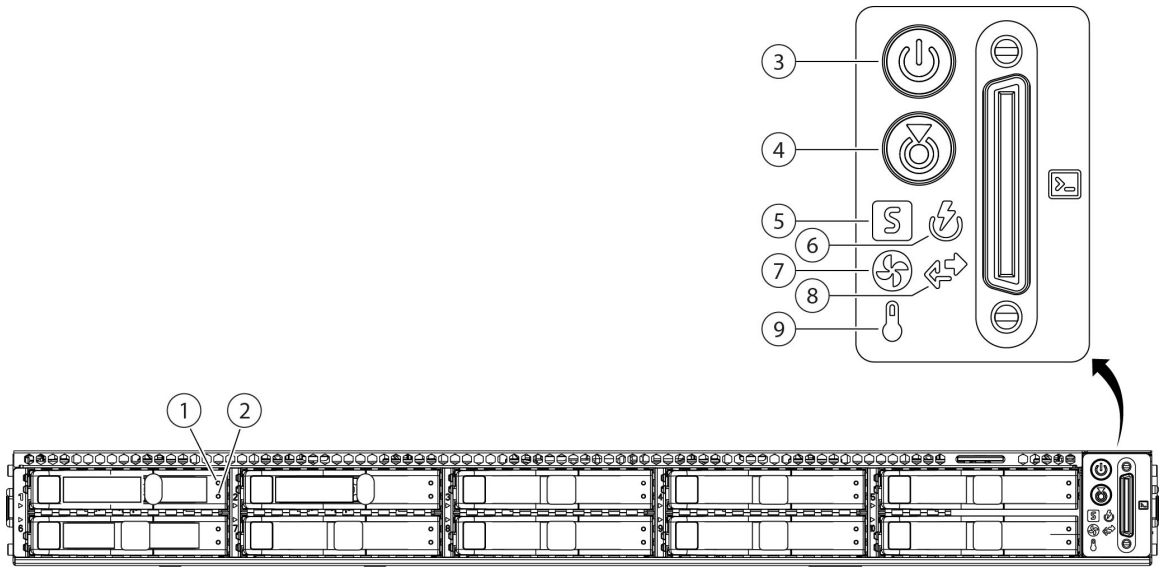


1	Drive bays Supports ten SAS HDDs in slots 1 through 10	**2**	Power button/power status LED
3	Unit identification button/LED	**4**	System status LED
5	Power supply status LED	**6**	Fan status LED
7	Network link activity LED	**8**	Temperature status LED
9	Pullout asset card	**10**	KVM port Not supported; use the VGA and USB keyboard ports instead.

Front Panel LEDs

The following figure shows the front panel LEDs of the Firewall Management Center series and describes their states.

Figure 8: Front Panel LEDs and Their States



1	Drive fault 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.	**2**	Drive activity LED: • 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:
	• Green—The chassis is running in normal operating condition.
	• Green, flashing—The chassis is performing system initialization and memory check.
	• Amber—The chassis is in a degraded operational state (minor fault).
	  • 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, two flashes—There is a major fault with the system board.
	• Amber, three flashes—There is a major fault with the DIMMs.
	• Amber, four flashes—There is a major fault with the CPUs.
		6	Power supply status LED:
			• Green—All power supplies are operating normally.
			• Amber—One or more power supplies are in a degraded operational state.
			• Amber, flashing—One or more power supplies are in a critical fault state.

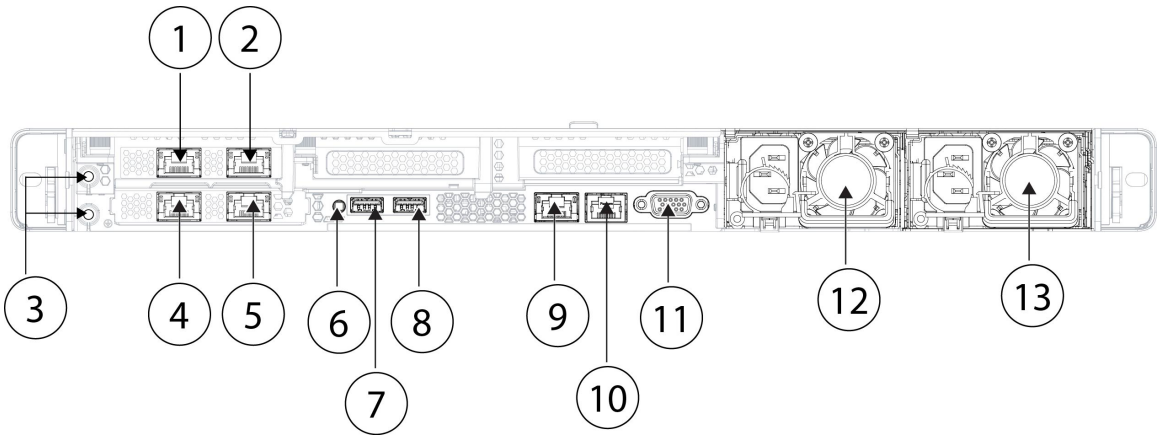
7	Fan status LED: • Green—All fans are operating properly. • Amber, flashing—One or more fans breached the unrecoverable threshold.	**8**	Network link activity LED: • Off—The Ethernet port link is idle. • Green—One or more Ethernet ports are link-active, but there is no activity. • Green, flashing—One 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 unrecoverable threshold.		—

Rear Panel

Note The CIMC is only supported for LOM access on the CIMC port (labeled M) on a Serial Over LAN (SOL) connection to remotely monitor or manage the management center system. For information on using LOM and SOL, see the "Set Up Lights Out Management" section in the Cisco Secure Firewall Management Center 1700, 2700, and 4700 Getting Started Guide.

The following figure shows the rear panel of the Firewall Management Center series.

Figure 9: FMC1700, FMC2700, and FMC4700 Rear Panel



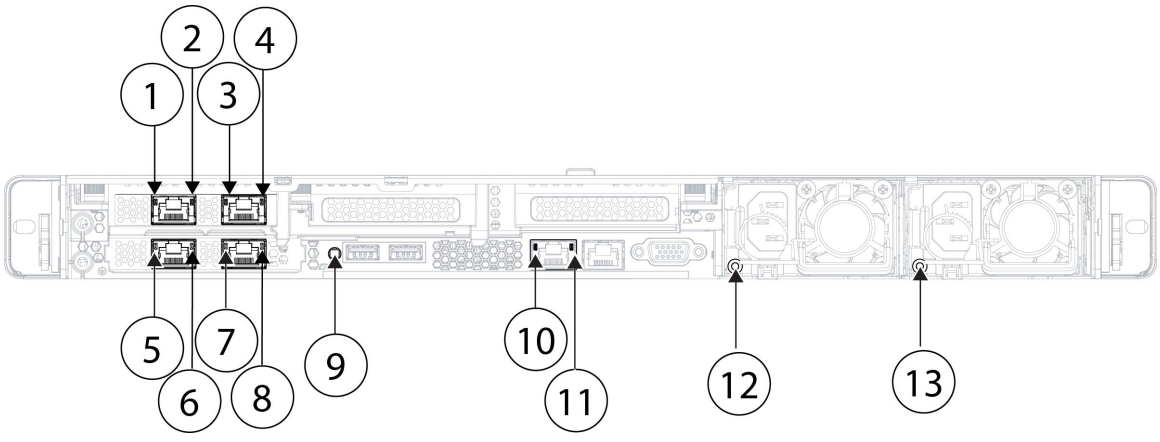
1	eth3 management interface (Optional) 10-Gigabit Ethernet SFP+ support Use as a secondary management port or event port. **Note** See Features, on page 1 for the list of qualified SFPs.	**2**	eth2 management interface (Optional) 10-Gigabit Ethernet SFP+ support Use as a secondary management port or event port. **Note** See Features, on page 1 for the list of qualified SFPs.
3	Threaded holes for dual-hole grounding lug	**4**	eth0 management interface (labeled 1) Primary management port Supports 100/1000/10000 Mbps depending on link partner capability. **Note** See Features, on page 1 for the list of qualified SFPs.

5	eth1 management interface (labeled 2) Gigabit Ethernet 100/1000/10000 Mbps interface, RJ-45, LAN2 Use as a secondary management port or event port. **Note** See Features, on page 1 for the list of qualified SFPs.	**6**	Unit identification button
7	USB 3.0 Type A (USB 1) You can connect a keyboard, and along with a monitor on the VGA port, you can access the console.	**8**	USB 3.0 Type A (USB 2) You can connect a keyboard, and along with a monitor on the VGA port, you can access the console.
9	CIMC interface (labeled M) **Note** CIMC is supported *only* for LOM access. CIMC is *not* supported on any other interfaces.	**10**	Serial console port (RJ-45 connector) Disabled by default; use the VGA port and keyboard USB port instead.
11	VGA video port (DB-15 connector)	**12**	1050-W AC power supply (PSU 1)
13	1050-W AC power supply (PSU 2)		—

Rear Panel LEDs

The following figure shows the rear panel LEDs and describes their states.

Figure 10: FMC1700, FMC2700, and FMC4700 Rear Panel LEDs



1	100-Mbps/1-Gbps/10-Gbps SFP Ethernet port (eth0) link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.	**2**	100-Mbps/1-Gbps/10-Gbps SFP Ethernet port (eth0) link speed: • Off—Link speed is 100 Mbps. • Amber—Link speed is 1 Gbps. • Green—Link speed is 10 Gbps.
3	100-Mbps/1-Gbps/10-Gbps SFP Ethernet port (eth1) link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.	**4**	100-Mbps/1-Gbps/10-Gbps SFP Ethernet port (eth1) link speed: • Off—Link speed is 100 Mbps. • Amber—Link speed is 1 Gbps. • Green—Link speed is 10 Gbps.
5	100-Mbps/1-Gbps/10-Gbps RJ-45 Ethernet port (eth2) link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.	**6**	100-Mbps/1-Gbps/10-Gbps RJ-45 Ethernet port (eth2) link speed: • Off—Link speed is 100 Mbps. • Amber—Link speed is 1 Gbps. • Green—Link speed is 10 Gbps.
7	100-Mbps/1-Gbps/10-Gbps RJ-45 Ethernet port (eth3) link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.	**8**	100-Mbps/1-Gbps/10-Gbps RJ-45 Ethernet port (eth3) link speed: • Off—Link speed is 100 Mbps. • Amber—Link speed is 1 Gbps. • Green—Link speed is 10 Gbps.
9	Unit identification: • Off—The unit identification function is not in use. • Blue, flashing—The unit identification function is activated.	**10**	1-Gbps Ethernet dedicated management port (CIMC) link status: • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.

11	1-Gbps Ethernet dedicated management port (CIMC) link speed: • Off—Link speed is 10 Mbps. • Amber—Link speed is 100 Gbps. • Green—Link speed is 1 Gbps.	**12**	Power supply 1 (one LED for each 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).
13	Power supply 2 (one LED for each 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

The following table lists the specifications for each 1050-W AC power supply used in the Firewall Management Center series.

Table 2: FMC1700, FMC2700, and FMC4700 Power Supply Specifications

Description	Specification
Power consumption	1313 BTU/hr
Input voltage range	Nominal range: 100 to 240 V AC Maximum range: 90 to 264 V AC
Input frequency	Nominal range: 50–60 Hz Maximum range: 47–63 Hz

Description	Specification
Maximum input current	9.2 A peak at 100 V AC 5.2 A peak at 230 V AC
Maximum input volt amperes	950 VA at 100 V AC
Maximum output power	1050 W
Maximum inrush current	15 A (subcycle duration)
Maximum hold-up time	12 ms at 770 W
Maximum rated standby output	36 W
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 Firewall Management Center series.

Table 3: FMC1700, FMC2700, and FMC4700 Hardware Specifications

Specification	FMC1700	FMC2700	FMC4700
Dimensions (H x W x D)	16.9 x 1.7 x 30 inches (42.9 x 4.3 x 76.2 cm)		
Weight	32.2 lb (16.6 kg)	34.1 lb (16.8 kg)	36.0 lb (17.0 kg)
Temperature	Operating: 50 to 95°F (10 to 35°C) Maximum temperature is derated by 1°F/547 ft (1°C/300 m) of altitude above 3117 ft (950 m). Nonoperating: –40 to 149°F (–40 to 65°C) When the appliance is stored or transported.		
Relative humidity	Operating: 8 to 90% noncondensing Nonoperating: 5 to 95% noncondensing		
Altitude	Operating: 0 to 10,000 ft Nonoperating: 0 to 40,000 ft when the appliance is stored or transported		
Sound power level	5.8 Bels (measure A-weighted per ISO7779 LWAd) Operation at 73°F (23°C)		

Specification	FMC1700	FMC2700	FMC4700
Sound pressure level	43 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 the Firewall Management Center series. The spare components are ones that you can order and replace yourself. If any internal components fail, you must get a return material authorization (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: FMC1700, FMC2700, and FMC4700 PIDs

PID	Description
FMC1700-K9	Cisco Secure Firewall Management Center 1700
FMC2700-K9	Cisco Secure Firewall Management Center 2700
FMC4700-K9	Cisco Secure Firewall Management Center 4700
FMC-M6-PS-AC-1050W	AC power supply
FMC-M6-PS-AC-1050W=	AC power supply (spare)
FMC-M6-HDD-1.2TB	1700 and 4700 1.2-TB drive
FMC-M6-HDD-1.2TB=	1700 and 4700 1.2-TB drive (spare)
FMC-M6-HDD-600G	2700 600-GB drive
FMC-M6-HDD-600G=	2700 600-GB drive (spare)
UCSC-RAIL-M6	Rail kit

Power Cord Specifications

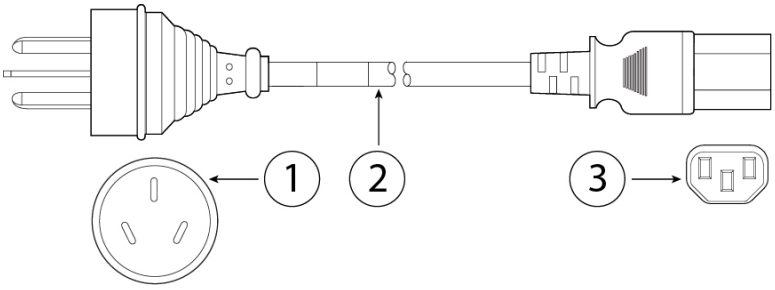
Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to the Firewall Management Center series. The jumper power cords for use in racks are available as an optional alternative to the standard power cords.

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.

Note Only the approved power cords and jumper cords provided with the Firewall Management Center series are supported.

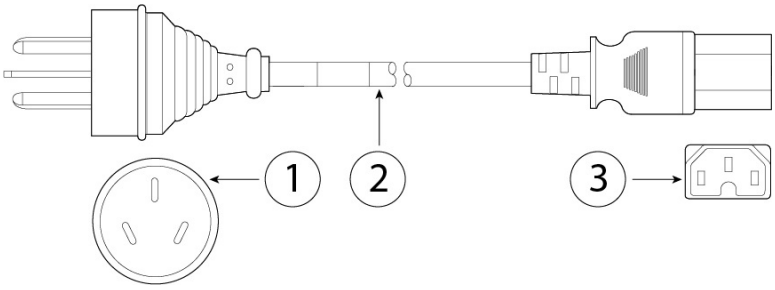
The following power cords and jumper cords are supported.

Figure 11: Argentina (CAB-250V-10A-AR)



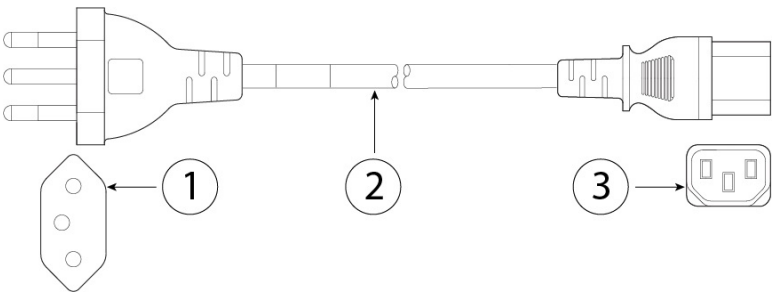
1	Plug: IRAM 2073	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 12: Australia (CAB-9K10A-AU)



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

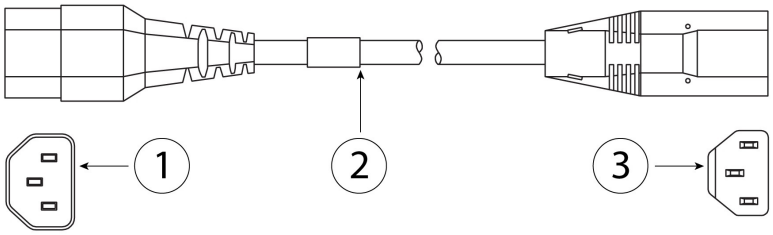
Figure 13: Brazil (PWR-250V-10A-BZ)



1	Plug: NBR 14136	**2**	Cord set rating: 10 A, 250 V

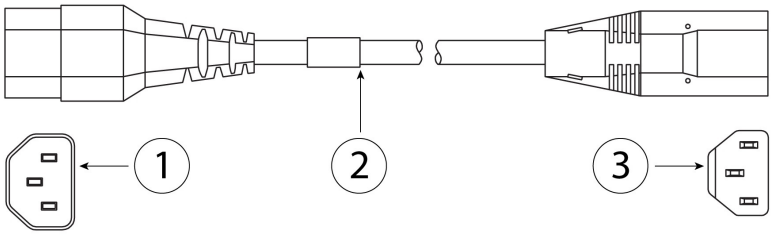
3	Connector: IEC 60320/C13		—

Figure 14: Cabinet Jumper (CAB-C13-C14-2M)



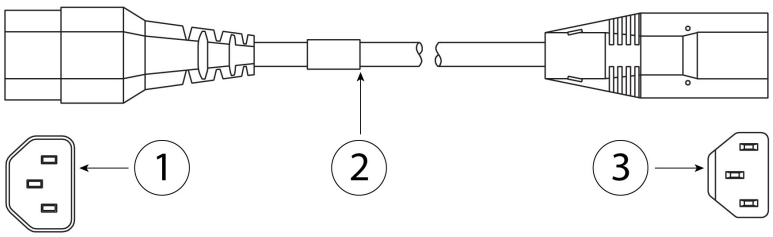
1	Plug: SS10A	**2**	Cord set rating: 10A, 250V
3	Connector: HS10S, C-13 to C-14		—

Figure 15: Cabinet Jumper (CAB-C13-C14-AC)



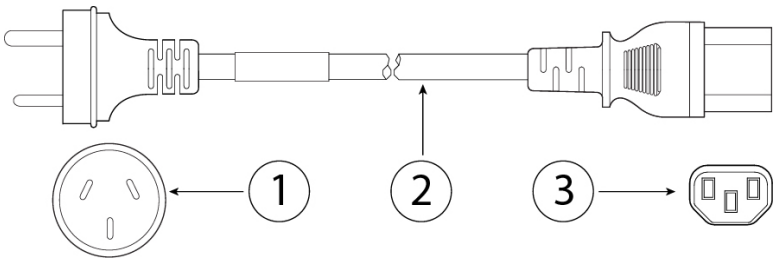
1	Plug: SS10A	**2**	Cord set rating: 10 A, 250 V
3	Connector: HS10S, C-13 to C-14 (recessed receptacle)		—

Figure 16: Cabinet Jumper (CAB-C13-CBN)



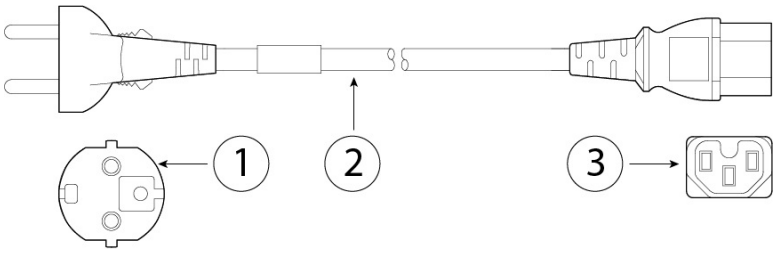
1	Plug: SS10A	**2**	Cord set rating: 10 A, 250 V
3	Connector: HS10S, C-13 to C-14		—

Figure 17: China (CAB-250V-10A-CH)



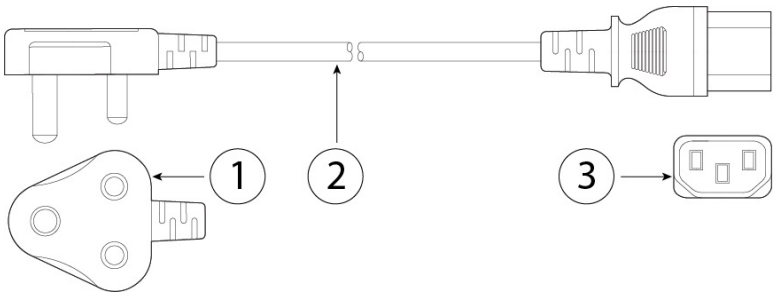
1	Plug: GB2099.1/2008	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 18: Europe (CAB-9K10A-EU)



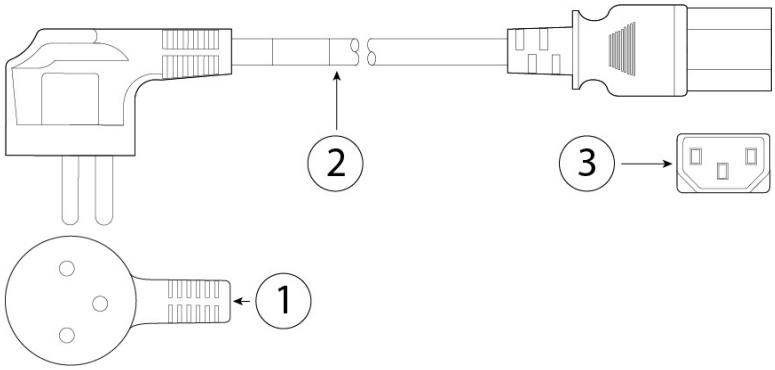
1	Plug: CEE 7/7 (M2511)	**2**	Cord set rating: 10 A/16 A, 250 V
3	Connector: IEC 60320/C15 (VSCC 15)		—

Figure 19: India (CAB-250V-10A-ID)



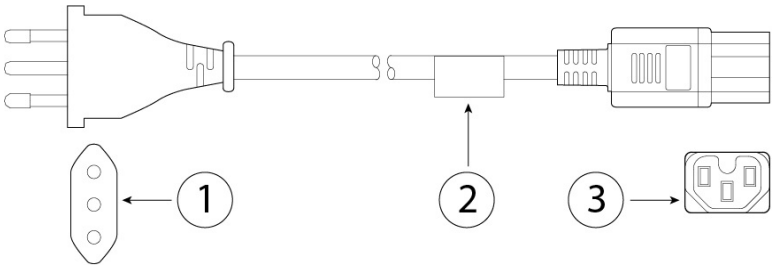
1	Plug: IS 6538-1971	**2**	Cord set rating: 16 A, 250 V
3	Connector: IEC 60320-C13		—

Figure 20: Israel (CAB-250V-10A-IS)



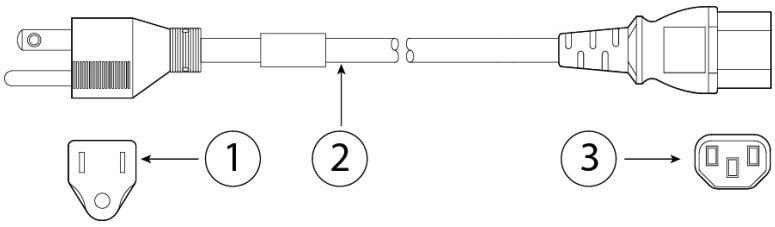
1	Plug: SI-32	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320-C13		—

Figure 21: Italy (CAB-9K10A-IT)



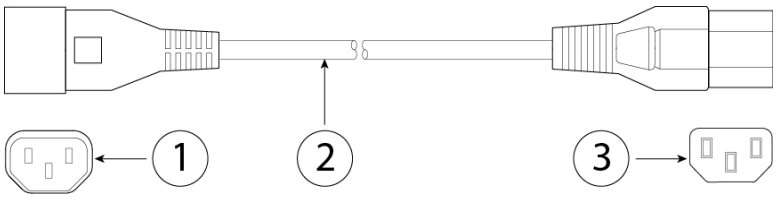
1	Plug: CEI 23-16/VII (I/3G)	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15 (EN 60320/C15M)		—

Figure 22: Japan (CAB-JPN-3PIN)



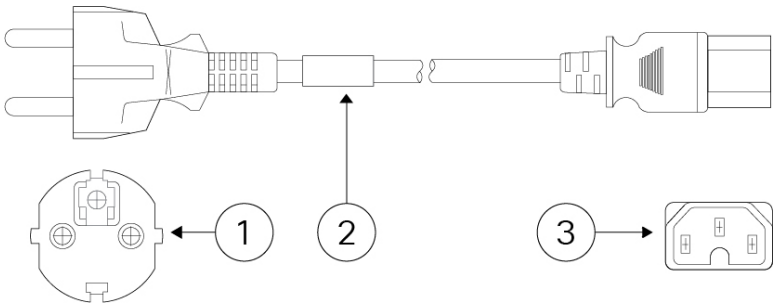
1	Plug: JIS 8303	**2**	Cord set rating: 12 A, 125 V
3	Connector: IEC 60320/C13		—

Figure 23: Japan (CAB-C13-C14-2M-JP)



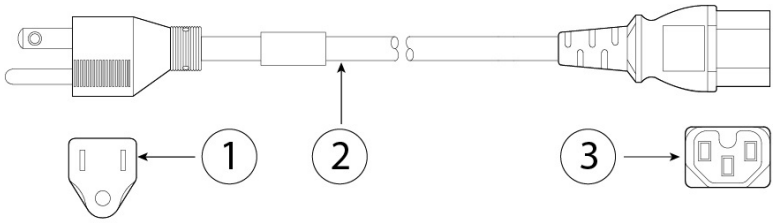
1	Plug: EN 60320-2-2/E	**2**	Cord set rating: 10 A, 250 V
3	Connector: EN 60320/C13 to C14		—

Figure 24: Korea (CAB-9K10S-KOR)



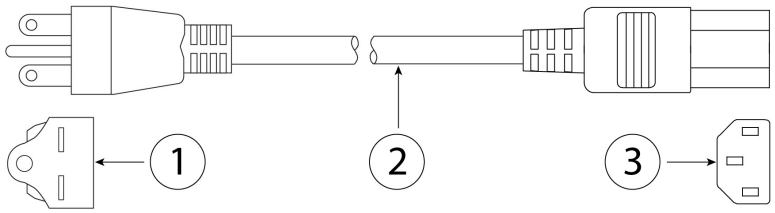
1	Plug: EL211 (KSC 8305)	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		—

Figure 25: North America (CAB-9K12A-NA)



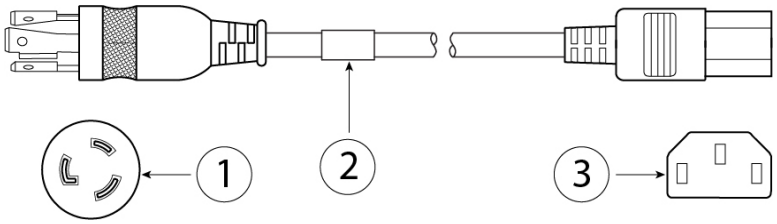
1	Plug: NEMA5-15P	**2**	Cord set rating: 13 A, 125 V
3	Connector: IEC 60320/C15		—

Figure 26: North America (CAB-N5K6A-NA)



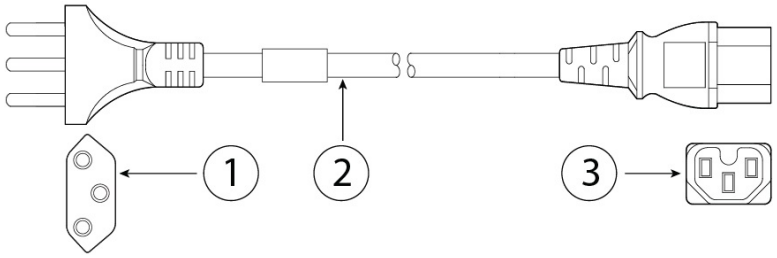
1	Plug: NEMA6-15P	**2**	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C13		—

Figure 27: North America (CAB-AC-L620-C13)



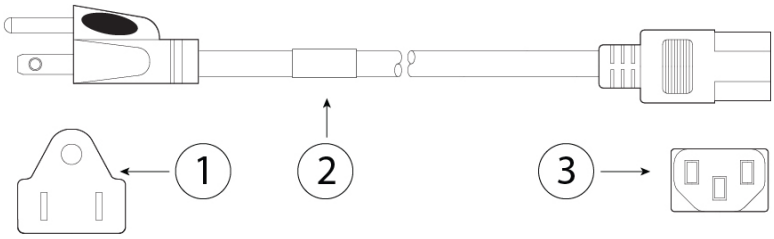
1	Plug: NEMA L6-20 (molded twist lock)	**2**	Cord set rating: 13 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 28: Switzerland (CAB-9K10A-SW)



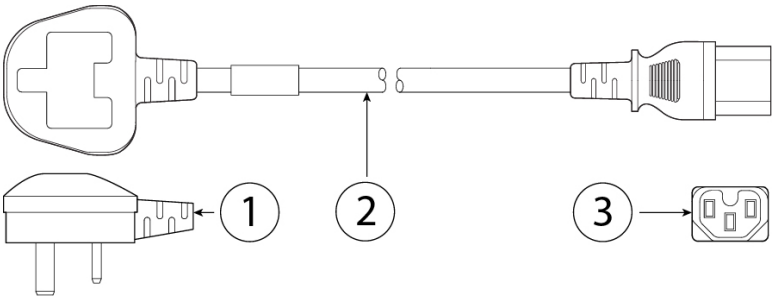
1	Plug: SEV 1011 (MP232-R)	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		—

Figure 29: Taiwan (CAB-ACTW)



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

Figure 30: United Kingdom (CAB-9K10A-UK)



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