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Features

The Cisco Firepower 1100 series security appliances are a standalone modular security services platform. They are capable of running multiple security services simultaneously and so are targeted at the data center as a multiservice platform. The Firepower 1100 series supports Cisco Secure Firewall Threat Defense and Cisco Secure Firewall ASA software.

The following figure shows the Cisco Firepower 1100 series chassis.

Figure 1: Cisco Firepower 1100 series



The following table lists the features for the Firepower 1100.

Table 1: Firepower 1120, 1140, and 1150 features

Feature	1120	1140	1150
Form factor	1 RU		
Mounting	Rack mount 4-post Electronic Industries Association (EIA)-310-D rack		
Airflow	I/O side to non-I/O side Rear panel to front panel (cold aisle to hot aisle)		
Memory	16-GB DDR4 DRAM		32-GB DDR4 DRAM
Management port	One Gigabit Ethernet RJ-45 10/100/1000 BaseT Restricted to network management access only		
Console ports	One RJ-45 or one USB Mini B Provides management access through an external system		
USB port	One USB 3.0 Type A Allows attachment of an external device such as mass storage		
Network ports	Eight Gigabit Ethernet RJ-45 10/100/1000 BaseT		
Small form-factor pluggable (SFP) ports	Four fixed 1-Gbps SFP ports		Four fixed 1-Gb SFP ports **Note** Two of the SFP ports (ports 9 and 11) support 10 Gbps.
Power switch	On rear panel; rocker-type power on/off switch		
Reset button	Yes		
AC power supply	One fixed AC power supply The power supply is internal; there is no user access. The power supply is not field-replaceable; you must return the chassis to Cisco for power supply replacement.		
Redundant power	No		
Fan	One fixed fan The fan is internal; there is no user access. The fan is not field-replaceable; you must return the chassis to Cisco for fan replacement.		

Feature	1120	1140	1150
Storage	One SSD slot 200-GB 2.5-in. SATA SSD drive The drive is field-replaceable.		

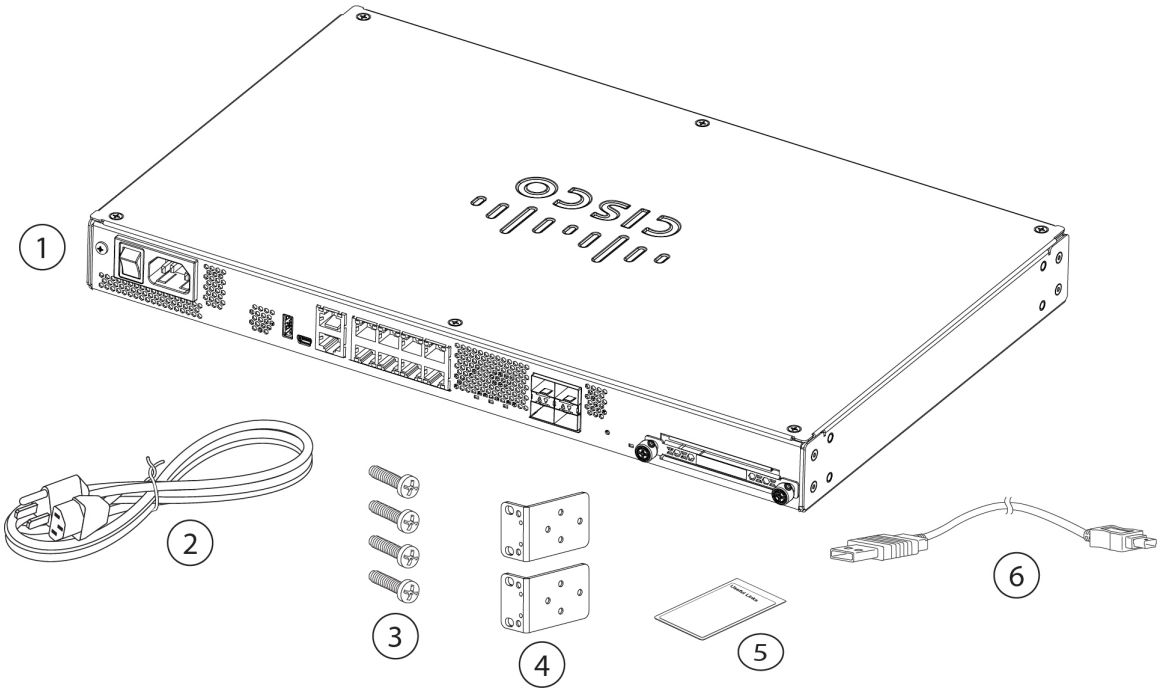
Related Topics

Supported transceivers, on page 11
Product ID Numbers, on page 14
Management, console, USB, and network ports, on page 7
Replace the SSD
Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility

Package contents

The following figure shows the package contents for the Firepower 1100. Note that the contents are subject to change, and your exact contents might contain additional or fewer items.

Figure 2: Firepower 1100 package contents



1	Chassis	**2**	Country-specific power cord Optional; in package if ordered
3	Four M4 x 8-mm Phillips screws for securing the rack-mounting bracket to the chassis	**4**	Two rack-mount brackets

5	*Cisco Secure Firepower 1100* 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, the getting started guide, and the zero-touch provisioning guide.	6	USB console cable (optional) Type A to Mini Type B (CAB-CONS-USB-MINI)

Related Topics

Power cord specifications, on page 15

QR code sticker

The QR code sticker on the rear panel of the chassis points to the document that explains zero-touch provisioning. Zero-touch provisioning allows anyone to connect a new Firepower 1100 to a network so that the IT department can onboard the device to Security Cloud Control and configure it remotely. Security Cloud Control supports Firewall Threat Defense version 6.7 and later.

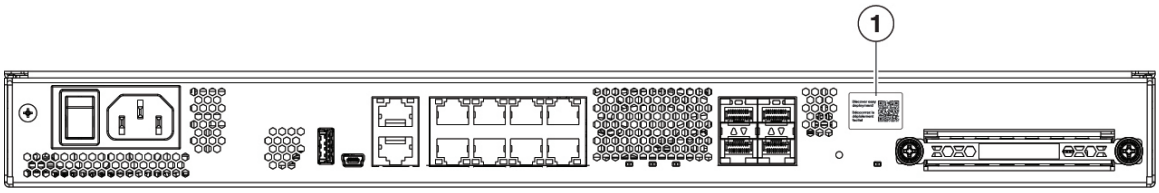
The following figure shows the QR code sticker.

Figure 3: QR code sticker



The following figure shows the placement of the QR code sticker on the rear panel of the chassis.

Figure 4: QR code sticker on the chassis



1	QR code sticker		—

Related Topics

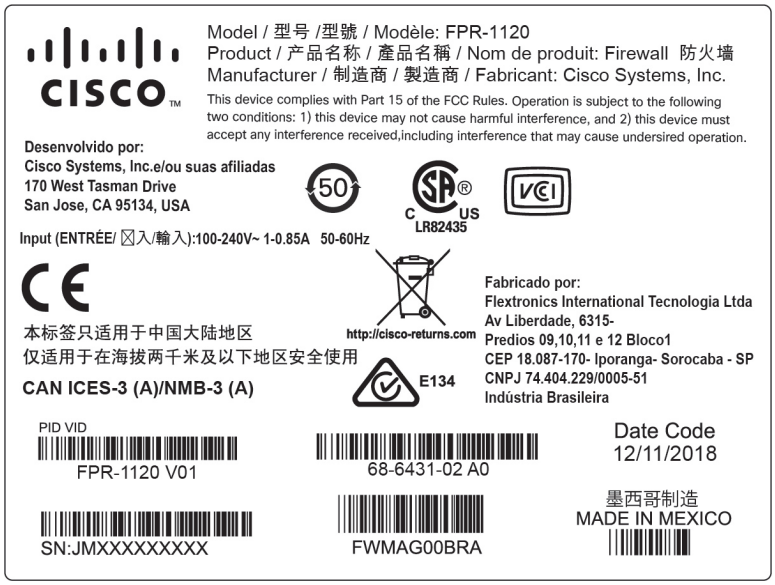
Easy Deployment Guide for Cisco Secure Firewall Threat Defense with Cisco Security Cloud Control

Serial number and compliance label

The compliance label on the bottom of the chassis contains the chassis serial number, regulatory compliance marks, and the Digital Documentation Portal QR code that points to the getting started guide, the regulatory and compliance guide, the zero-touch provisioning guide, and the hardware installation guide.

The following figure shows an example compliance label found on the bottom of the chassis.

Figure 5: Compliance label on the chassis

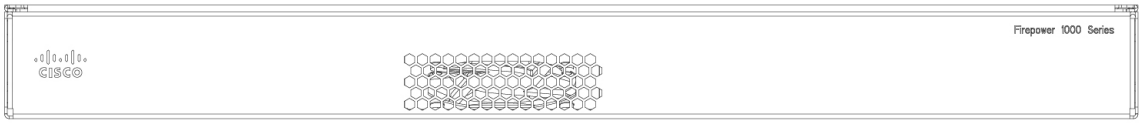


1	Chassis model number	**2**	Chassis serial number
3	Digital Documentation Portal QR code		—

Front panel

The following figure shows the front panel of the Firepower 1100. Note that there are no connectors or LEDs on the front panel.

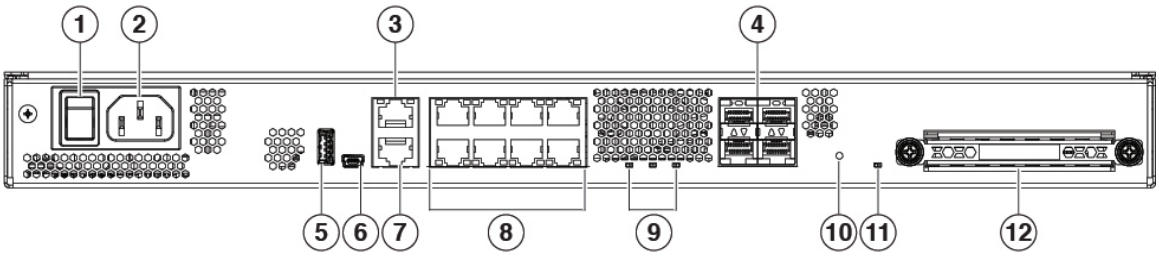
Figure 6: Firepower 1100 front panel



Rear panel

The following figure shows the rear panel of the Firepower 1100.

Figure 7: Firepower 1100 rear panel



1	Power switch **Note** The power switch provides a way to gracefully shut down the system and place it in standby. The power supply and fan remain active and the fan may continue to spin at slow speed. To achieve total power shut down, unplug the power supply from the chassis.	**2**	Power cord socket
3	Management port	**4**	SFP ports (numbered 9 through 12)
5	USB Type A port	**6**	USB Mini B console port
7	RJ-45 (8P8C) console port	**8**	Network data ports
9	Status LEDs	**10**	Reset button
11	SSD LED	**12**	SSD bay

Related Topics

Rear panel LEDs, on page 9
Features, on page 1

Management, console, USB, and network ports, on page 7

Power switch and reset button

Power switch

The power switch is a rocker-type power on/off switch located on the rear panel.

Note The power switch controls system power and operates as a soft notification switch that supports the graceful shutdown of the system. Graceful shutdown reduces the risk of system software and data corruption.

Caution If you accidentally push the power switch to ON while unpacking your chassis, make sure the power switch is set to OFF before you connect AC power for the first time. The chassis powers on and boots up as soon as the AC power is applied when the power button is in the ON position.

Reset button

The chassis has a recessed reset button on the left front panel that resets the system to the factory default. All previous configuration is erased after pressing the button down with a pin for five seconds. This resets the chassis to its default state following the next reboot.

Note Configuration variables are reset to factory default, but the flash is not erased and no files are removed.

Related Topics

Front panel LEDs

Management, console, USB, and network ports

Management port

The Firepower 1100 series has one Gigabit Ethernet RJ-45 10/100/1000 BaseT management port. It is restricted to network management access. To access the management port, connect with an RJ-45 cable.

Console ports

The chassis has two external console ports, a standard RJ-45 port and a USB Mini B serial port. Only one console port can be active at a time. When a cable is plugged into the USB console port, the RJ-45 port becomes inactive. Conversely, when the USB cable is removed from the USB port, the RJ-45 port becomes active. The console ports do not have any hardware flow control. You can use the CLI to configure the chassis through either serial console port by using a terminal server or a terminal emulation program on a computer.

Caution To avoid having the Firepower 1100 series not fully reload after a reboot, do not leave the console cable half-way disconnected. Either have the console cable connected on both ends or not connected at all.

- RJ-45 (8P8C) port—Supports RS-232 signaling to an internal UART controller. The RJ-45 console port does not support a remote dial-in modem. You can use a standard management cable (Cisco part number 72-3383-01) to convert the RJ45-to-DB9 connection if necessary.
- USB Mini B port—Lets you connect to a USB port on an external computer. For Linux and Macintosh systems, no special driver is required. For Windows systems, you must download and install a USB driver (available on software.cisco.com). You can plug and unplug the USB cable from the console port without affecting Windows HyperTerminal operations. We recommend shielded USB cables with properly terminated shields. Baud rates for the USB console port are 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.

Note For Windows operating systems, you must install a Cisco Windows USB Console Driver on any PC connected to the console port before using the USB console port.

USB Type A port

The chassis contains a standard USB 3.0 Type A port for an external USB drive that you can use for the startup image, configuration, backup and other standard uses for flash storage.

- Supports EXT2/3/4 or VFAT/FAT32 format
- Identified as the following drive ID depending on the CLI:
  - FxOS local-mgmt—usbdrive:
  - FxOS—usbA:
  - ASA and Firewall Threat Defense—disk1:
  - ROMMON—usb:
- Output power of 5 volts, up to a maximum of 1 A (5 USB power units)

The Type A USB port does *not* support Cisco Secure Package (CSP) image upload support.

Network ports

The chassis has eight Gigabit Ethernet RJ-45 10/100/1000 BaseT ports. Each RJ-45 (8P8C) copper port supports auto Medium Dependent Interface Crossover (MDI/X) as well as auto-negotiation for interface speed, duplex, and other negotiated parameters, and are MDI/X-compliant. Port numbering is left to right, top to bottom; ports are named Gigabit Ethernet 1/1 through 1/8. Each port includes a pair of LEDs, one each for connection status and link status.

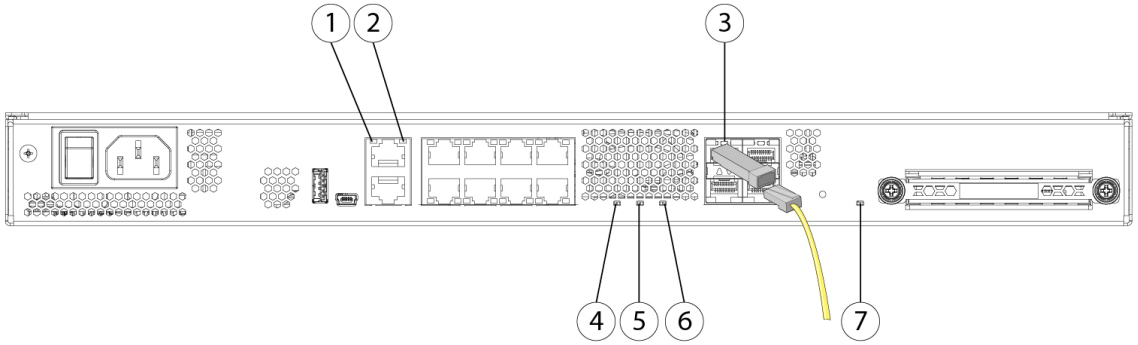
Related Topics

Connect to the console port with Microsoft Windows

Rear panel LEDs

The following figure shows the LEDs on the rear panel of the Firepower 1100 and describes their states.

Figure 8: Firepower 1100 rear panel LEDs



1	**Network** Status of the network ports: Link status (L): • Off—No link, or port is not in use. • Green—Link established. • Green, flashing—Link activity.	**2**	**Network** Status of the network ports: Connection-speed status (S): • Green, flashing—One flash every three seconds = 10 Mbps. • Green, flashing—Two rapid flashes = 100 Mbps. • Green, flashing—Three rapid flashes = 1000 Mbps.
3	**SFP** Status of the SFP transceiver: Link status (L): • Off—No SFP. • Amber—SFP present, but no link. • Green, flashing—Link established and transmitting.	**4**	**Power** Power supply status: • Off —Power supply off. • Green—Power supply on.

5	**Status**
	System operating status:
	• Off—System has not booted up yet.
	• Green, flashing quickly—System is booting up.
	• Green—Normal system function.
	• Amber—Critical alarm indicating one or more of the following:
	  • Major failure of a hardware or software component.
	  • Over-temperature condition.
	  • Power voltage outside the tolerance range.
	• Green, flashing slowly (twice in 5 seconds)—Cloud connected.
	Note
	Security Cloud Control is valid for FTD 6.7 and later.
	• Green and amber, flashing—Cloud connection failure.
	• Green—Cloud disconnected.
	Note
	The Security Cloud Control LED pattern applies to zero-touch provisioning.
		6	**Active**
			Status of the failover pair:
			• Off— Failover is not operational.
			• Green—Failover pair operating normally. The LED is green always unless the chassis in a high availability pair.
			• Amber—When the chassis is in a high availability pair, the LED is amber for the standby unit.
			Note
			For Active-Active cases with multi-context enabled, since there will be multiple groups with Active and Standby units, any unit can be in the Active *or* Standby state in each group, thus the LED behavior is not deterministic. Therefore, you must ignore the LED status for Active-Active cases.

7	**SSD** Status of the SSD: • Off— No SSD present. • Green—SSD detected. • Green, flashing—Activity on the SSD.		—

Related Topics

Replace the SSD

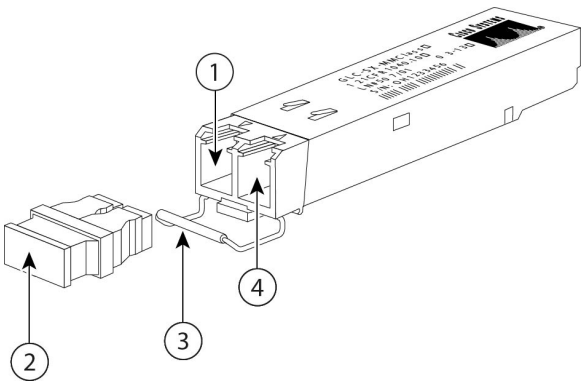
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Supported transceivers

The SFP transceiver is a bidirectional device with a transmitter and receiver in the same physical package. It is a hot-swappable optical or electrical (copper) interface that plugs into the SFP ports on the fixed ports and the network module ports, and provides Ethernet connectivity.

Note When using fiber-based optics, make sure that the same SFP type is used on both sides of the cable because speed is not negotiated when using SFP transceivers. This is true for both copper SFPs (the exception being that the GLC-T RJ45-based copper SFPs can negotiate speed) and fiber SFPs. If a port is configured for sfp-detect, then the software configures the port's speed to match the speed capability of the SFP. For dual-rate SFPs, when sfp-detect is configured, the port is always configured for the highest supported speed of the port. For example, a port that has a 10/25-Gbps SFP installed is configured to operate at 25 Gbps when sfp-detect is configured.

Figure 9: SFP transceiver



1	Dust plug	**2**	Bail clasp
3	Receive optical bore	**4**	Transmit optical bore

Safety warnings

Take note of the following warnings:

Warning **Statement 1055—**Class 1/1M Laser

Invisible laser radiation is present. Do not expose to users of telescopic optics. This applies to Class 1/1M laser products.



Warning **Statement 1056—**Unterminated Fiber Cable

Invisible laser radiation may be emitted from the end of the unterminated fiber cable or connector. Do not view directly with optical instruments. Viewing the laser output with certain optical instruments, for example, eye loupes, magnifiers, and microscopes, within a distance of 100 mm, may pose an eye hazard.

Warning **Statement 1057—**Hazardous Radiation Exposure

Use of controls, adjustments, or performance of procedures other than those specified may result in hazardous radiation exposure.

Warning Use appropriate ESD procedures when inserting the transceiver. Avoid touching the contacts at the rear, and keep the contacts and ports free of dust and dirt. Keep unused transceivers in the ESD packing that they were shipped in.

Caution Although non-Cisco 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 third-party SFP transceiver.

The following table lists the SFPs that are supported on the Firepower 1120, 1140, and 1150 fixed ports.

Table 2: FPR1120, FPR1140, and FPR1150 fixed ports

Port type	Transceiver PID	First supported release
Fixed SFP ports	• GLC-TE • GLC-SX-MMD • GLC-LH-SMD • GLC-EX-SMD • GLC-ZX-SMD	Threat Defense 6.4/ASA 9.15

The following table lists the SFPs that are supported on the Firepower 1150 fixed ports.

Table 3: FPR1150 fixed ports

Port type	Transceiver PID	First supported release
Fixed SFP ports	• SFP-10G-SR • SFP-10G-SR-S • SFP-10G-LR • SFP-10G-LR-S • SFP-10G-ER • SFP-10G-ER-S • SFP-H10GB-CUxM • SFP-H10GB-ACUxM • SFP-10G-AOCxM	Threat Defense 6.4/ASA 9.15

Related Topics

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

Hardware specifications

The following table contains hardware specifications for the Firepower 1100.

Table 4: Hardware specifications

Specification	1120	1140	1150
Dimensions (H x W x D)	1.72 x 10.58 x 17.2 inches (4.37 x 26.87 x 43.69 cm)		
Weight	8 lb (3.63 kg)		
Temperature	Operating: 32 to 104°F (0 to 40°C) Derate the maximum operating temperature 1.5°C per 1000 ft above sea level. Nonoperating: -13 to 158°F (-25 to 70°C) maximum altitude is 40,000 ft		
Humidity	Operating: 90% Nonoperating: 10 to 90%		
Altitude	Operating: 0 to 3,000 (0 to 9843 m) Nonoperating: 0 to 15,000 ft (0 to 4570 m)		

Specification	1120	1140	1150
Acoustic noise	56.8 dBa (sound pressure) at maximum fan speed at 40C 31.7 dBa at room temperature	56.8 dBa (sound pressure) at maximum fan speed at 40C 34.2 dBa at room temperature	

Product ID Numbers

The following table lists the field-replaceable PIDs associated with the Firepower 1100. 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.



Note Use the **show inventory** command to display a list of the PIDs for your Firepower 1100.

Table 5: Firepower 1100 series PIDs

PID	Description
FPR1120-NGFW-K9	Cisco Firepower 1120 NGFW appliance
FPR1140-NGFW-K9	Cisco Firepower 1140 NGFW appliance
FPR1150-NGFW-K9	Cisco Firepower 1150 NGFW appliance
FPR1K-RM-SSD200	Cisco Firepower 1100 200-GB drive
FPR1K-RM-SSD200=	Cisco Firepower 1100 200-GB drive (spare)
FPR1K-CBL-MGMT	Cisco Firepower 1100 cable-management brackets
FPR1K-CBL-MGMT=	Cisco Firepower 1100 cable-management brackets (spare)
FPR1K-RM-ACY-KIT	Cisco Firepower 1100 accessory kit
FPR1K-RM-BRKT=	Cisco Firepower 1100 rack-mount brackets (spare)
FPR1K-RM-FIPS-KIT	Cisco Firepower 1100 FIPS kit

Related Topics

Cisco Returns Portal
Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility

Power cord specifications

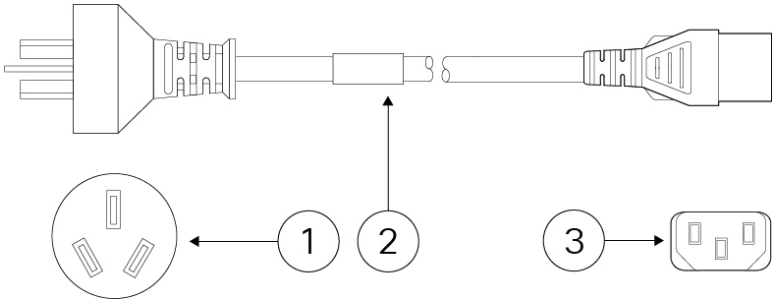
Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to the security appliance. The jumper power cords for use in racks are available as an optional alternative to the standard power cords.

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.

Note Only the approved power cords or jumper power cords provided with the chassis are supported.

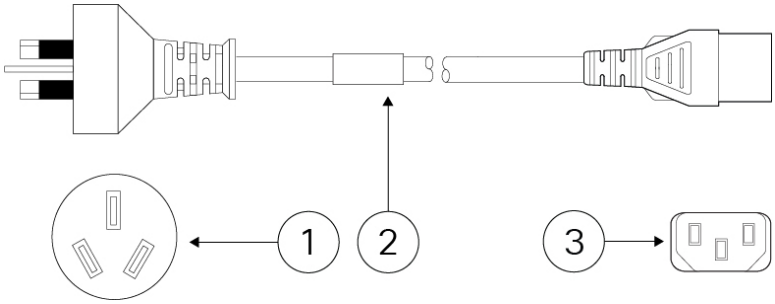
The following power cords are supported.

Figure 10: Argentina (CAB-ACR)



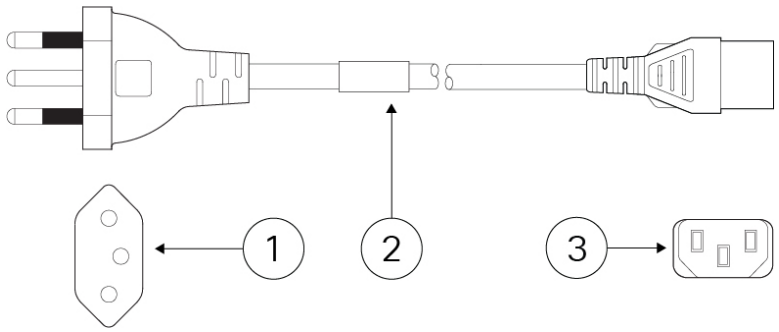
1	Plug: VA2073	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 11: Australia/New Zealand (CAB-ACA)



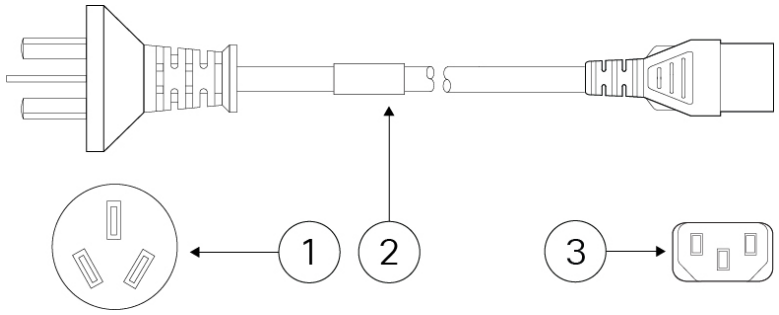
1	Plug: AU10LS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 12: Brazil (CAB-C13-ACB)



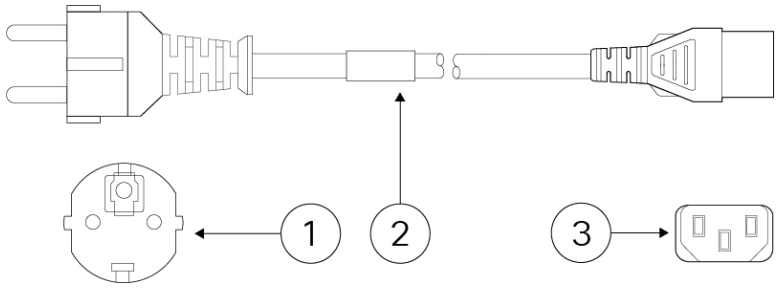
1	Plug: NBR 14136	**2**	Cord set rating: 10 A, 250 V
3	Connector: EL 701B (EN 60320/C13)		—

Figure 13: China (CAB-ACC)



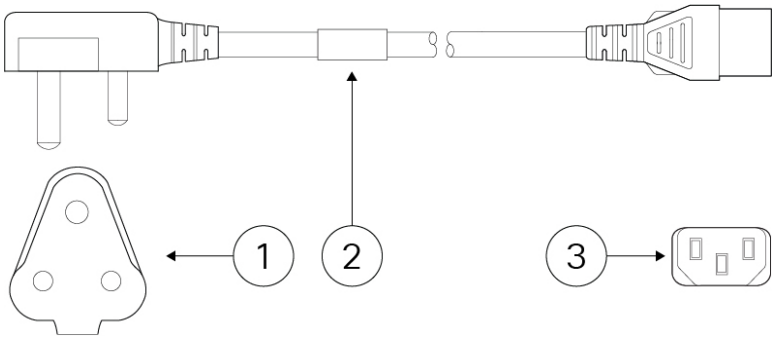
1	Plug: V3203C	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 14: Europe (CAB-ACE)



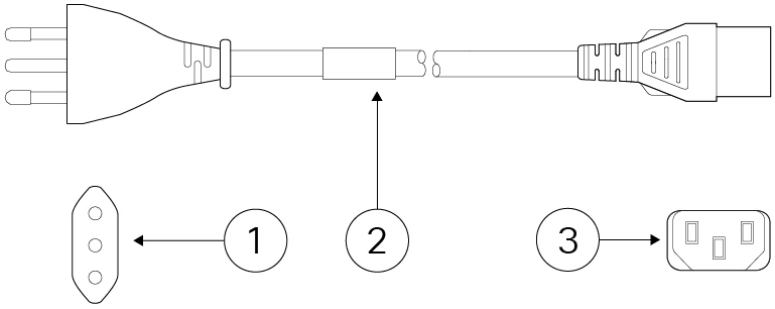
1	Plug: M2511	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625		—

Figure 15: India (CAB-IND-10A)



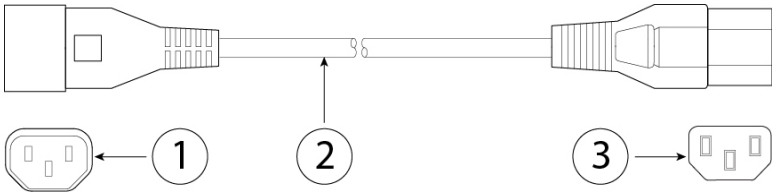
1	Plug: IA16A3-C	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625BS-E		—

Figure 16: Italy (CAB-ACI)



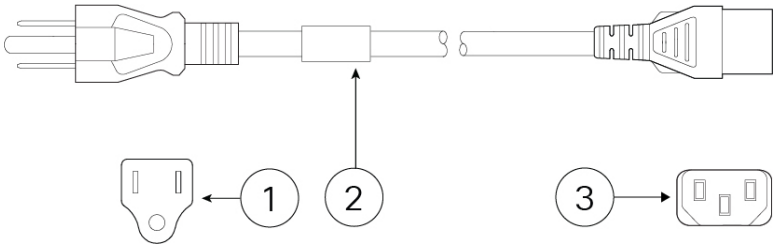
1	Plug: IT10S3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 17: Japan (CAB-C13-C14-2M-JP) PSE mark



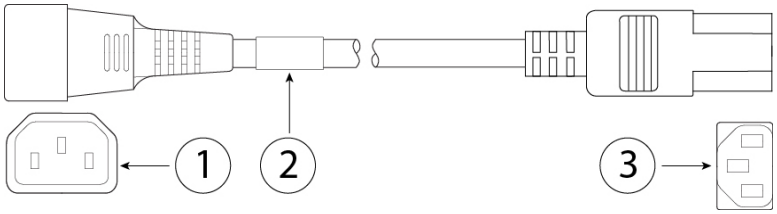
1	IEC 60320-2-2/E	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		Cord length: 2 m

Figure 18: Japan (CAB-JPN-3PIN)



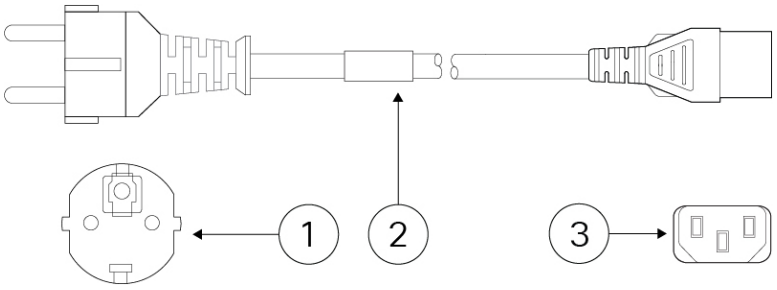
1	Plug: M744	**2**	Cord set rating: 12 A, 125 V
3	Connector: V1625		—

Figure 19: Jumper (CAB-C13-C14-2M)



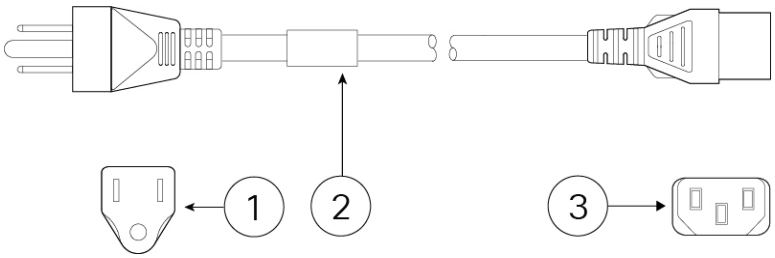
1	IEC 60320/C14G	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		Cord length: 2.5 m

Figure 20: Korea (CAB-AC-C13-KOR)



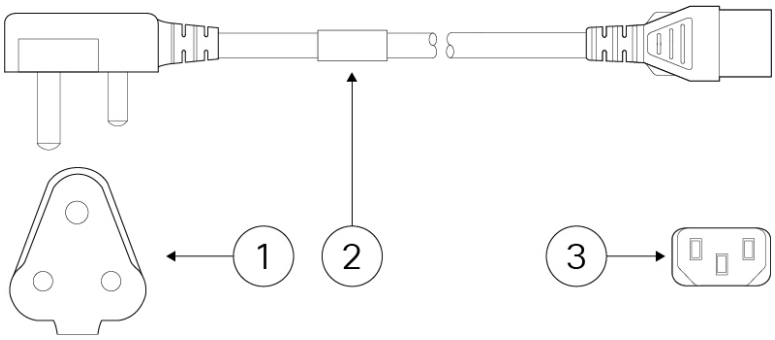
1	Plug: M2511	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 21: North America (CAB-AC)



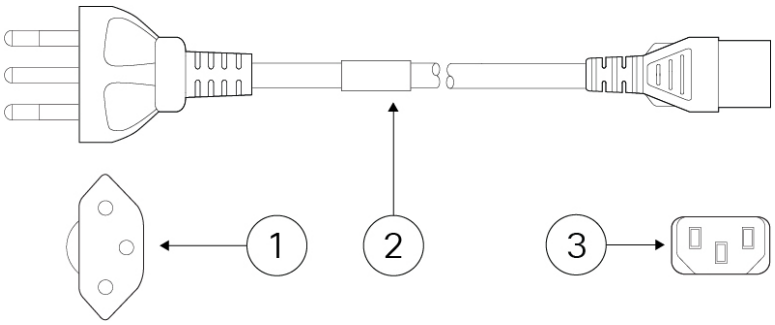
1	Plug: PS204	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		

Figure 22: South Africa (AIR-PWR-CORD-SA)



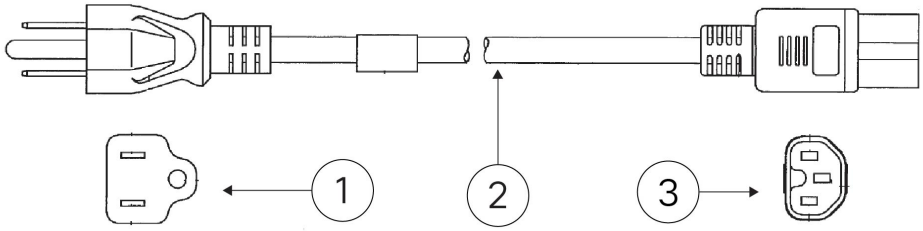
1	Plug: SA16A	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 23: Switzerland (CAB-ACS)



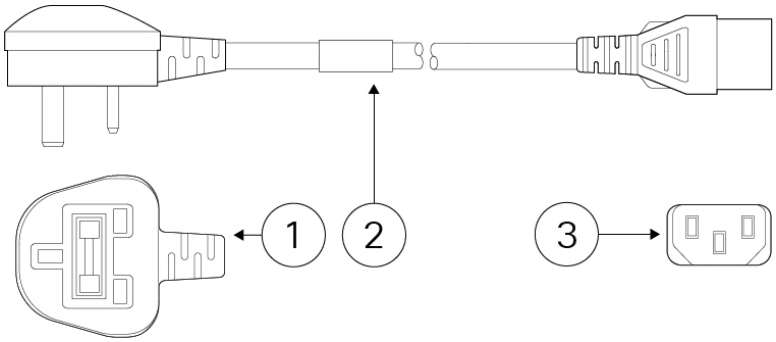
1	Plug: SW10ZS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 24: Taiwan (CAB-AC-TAI)



1	Plug: CNS 10917-2	**2**	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C15		—

Figure 25: United Kingdom (CAB-ACU)



1	Plug: 3P BS 1363	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—