

Overview

- Features, on page 1
- Package contents, on page 3
- Kensington lock, compliance label, do not stack label, hot system warning label, and digital documentation portal QR code locations, on page 4
- Front panel, on page 6
- Management, console, USB, network, and PoE+ ports, on page 6
- Power and reset buttons, on page 7
- Rear panel, on page 8
- Rear panel LEDs, on page 9
- Hardware specifications, on page 11
- Supported transceivers, on page 12
- Product IDs, on page 14
- Power cord specifications, on page 15

Features

The Cisco Secure Firewall 200 series is a cost-effective, highly efficient addition to our low-end firewall family. It is designed for enterprise branches, retail businesses, and small locations, and offers robust, affordable security with advanced threat intelligence, cloud security features, and optimized performance for comprehensive enterprise-grade protection. The Cisco Secure Firewall 220 is a compact network security appliance in the Cisco Secure Firewall family.The Cisco Secure Firewall 200 series supports Cisco Secure Firewall Threat Defense and Cisco Secure ASA software.

The following figure shows the Secure Firewall 220.

Figure 1: CSF-220



The following table lists the features for the Secure Firewall 220.

Table 1: CSF-220 features

Feature	CSF-220
Form factor	Compact or 1 RU for the rack-mount shelf
Mounting	• Desktop mount (default) • Wall mount (orderable kit) • Rack-mount shelf (orderable kit)
Airflow	Fanless[1]
Management port	One 1-Gbps Cisco RJ-45
Console ports	One Cisco Serial (RS-232 on RJ-45) One USB Type C 2.0
USB port	One USB 3.0 Type A
Network ports	Four 1-Gbps RJ-45 Gigabit Ethernet ports
Small form-factor pluggable (SFP) port	One 1-Gbps port
Supported SFPs	See Supported transceivers, on page 12 for a list of supported 1-Gbps SFPs.
PoE+ ports	Not supported
Reset button	Small recessed button
Lock slot	Accepts a Kensington T-bar locking mechanism for securing the chassis
Power button	Located on the left side of the I/O (rear) panel
Input connector	IEC320-C14

Feature	CSF-220
AC power supply	External +12 V at 30 W
Storage	Internal component only; not field-replaceable. You must return the chassis to Cisco for storage replacement.
Rubber feet	Present for stability and cooling

[1] Because there is no fan, you cannot stack the chassis. Internal system temperature recordings are expected to be higher than the ambient temperature cited in Hardware specifications, on page 11.

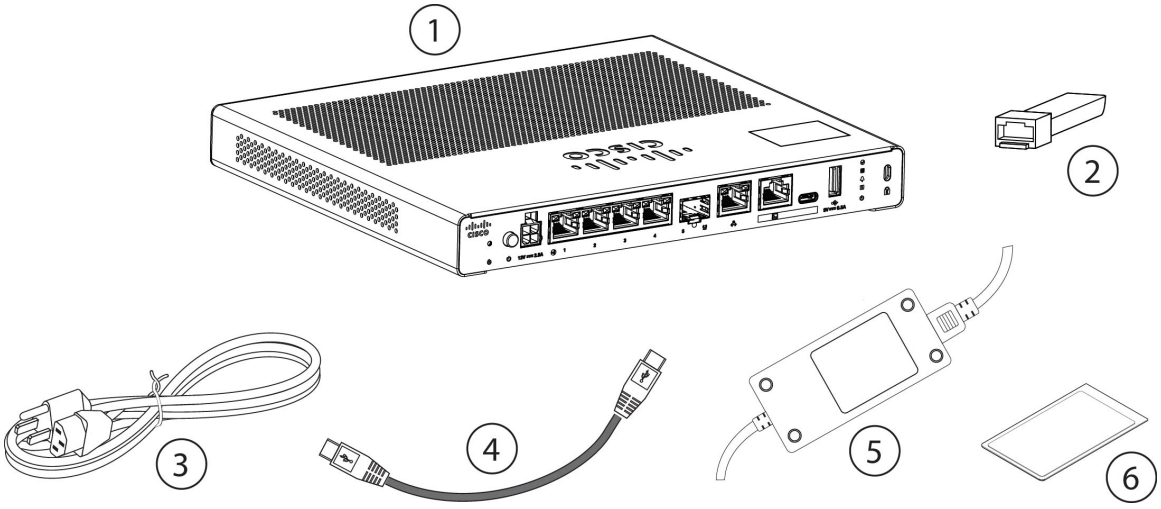
Related Topics

Cisco Secure Firewall Threat Defense Compatibility Guide
Cisco Secure Firewall ASA Compatibility
Product IDs, on page 14
Cisco Returns Portal
Power cord specifications, on page 15

Package contents

The following figure shows the package contents for the Secure Firewall 220. Note that the contents are subject to change and your exact contents might contain additional or fewer items.

Figure 2: CSF-220 package contents



1	Chassis (1 RU)	**2**	SFP transceiver Optional: in package if ordered
3	Power cord	**4**	USB-C to USB-C console cable (6 ft) PID: CAB-CONS-USB-C Optional: in package if ordered

5	Power supply	**6**	*Cisco Secure Firewall 200* 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.

Related Topics

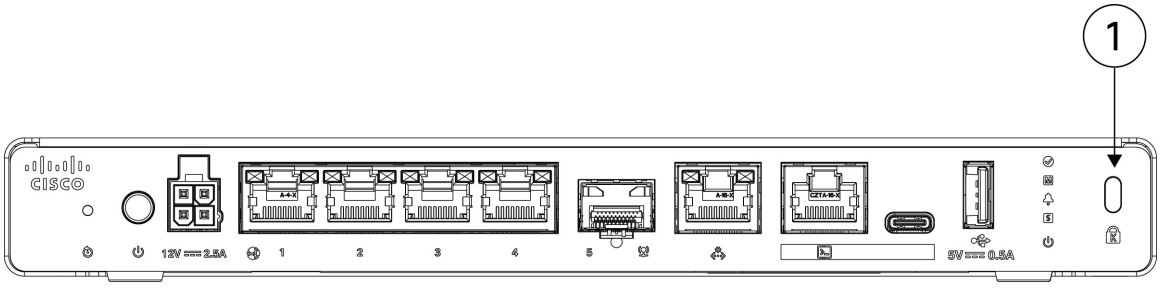
Power cord specifications, on page 15
Supported transceivers, on page 12

Kensington lock, compliance label, do not stack label, hot system warning label, and digital documentation portal QR code locations

The chassis has a Kensington lock that accepts a standard Kensington T-bar locking mechanism for securing the chassis.

The following figure shows the location of the Kensington lock on the CSF-220.

Figure 3: Kensington lock on the CSF-220 chassis

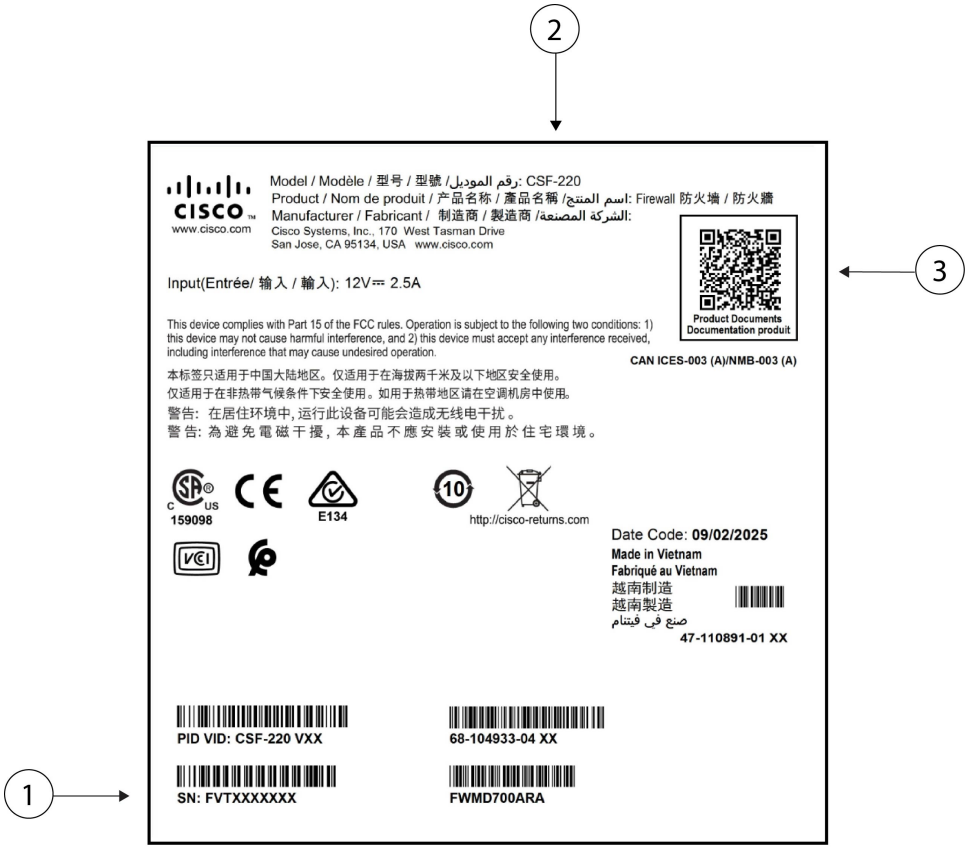


1	Kensington lock on top right side of the rear panel (I/O) side of the chassis		—

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 CSF-220 chassis.

Figure 4: Compliance label on the CSF-220 chassis



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

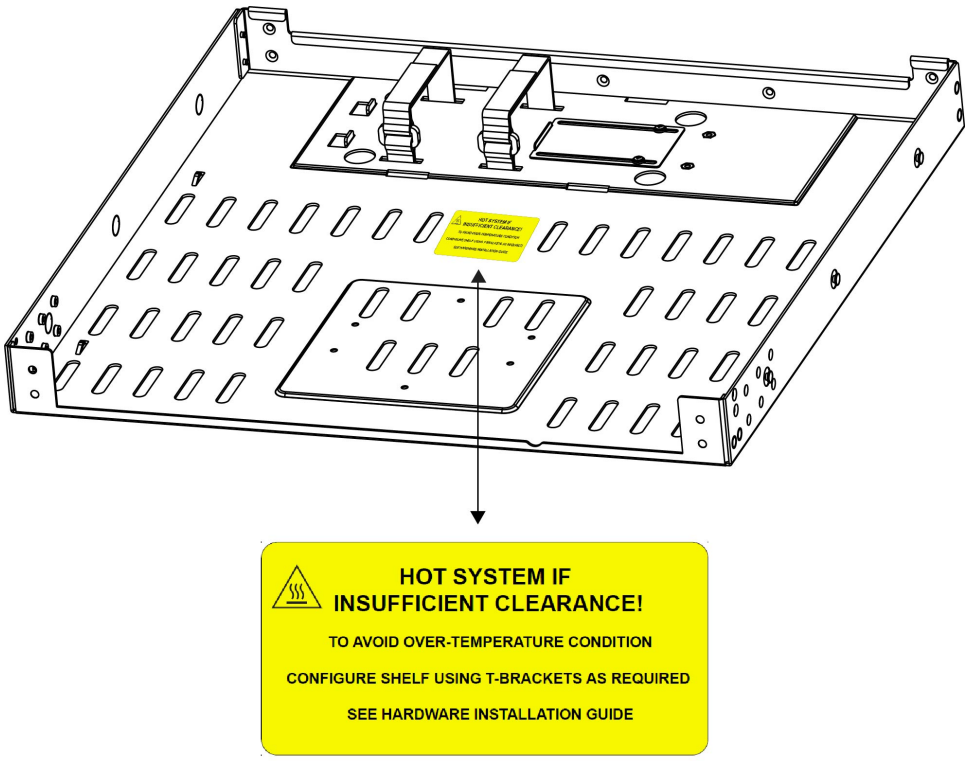
The Do Not Stack label is on the top of the chassis cover. The following figure shows the Do Not Stack label.

Figure 5: Do Not Stack label on the chassis



The Hot System warning label is on the rack-mount tray as seen in the following figure.

Figure 6: Hot System warning label on the rack-mount tray



Front panel

The following figure shows the front panel of the Secure Firewall 220 compact appliance. Note that there are no connectors or LEDs on the front panel.

Figure 7: CSF-220 front panel



Management, console, USB, network, and PoE+ ports

Management port

The Secure Firewall 200 series chassis has one 1-Gbps Cisco RJ-45 management port. It is restricted to network management access. Connect to the management port with an RJ-45 cable.

Console ports

The chassis has two external console ports, a Cisco RJ-45 serial port and a Type C USB serial port, which provide management access through an external system. 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.

- 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 an adapter to convert the RJ45-to-DB9 connection if necessary.
- Type C USB port—Lets you connect to a USB port on an external computer. 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. The default setting is 9600 baud. Use this for the initial connection. Baud rates for the USB console port are 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.

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 0.5 A (2.5 USB power units)

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

Network ports

The chassis has four 1-Gbps RJ-45 Gigabit Ethernet (1G/100M/10M Auto Duplex Auto MDI-X Base-T interfaces) ports. The ports are numbered Ethernet 1/1 to Ethernet 1/4. Each port includes a pair of LEDs, one each for connection status and link status. The ports are named and numbered Gigabit Ethernet 1/1 through Gigabit Ethernet 1/4.

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.

Power and reset buttons

Power button

The push power button is located on the rear panel. It controls power to the system. When the AC power is first turned on, you do not have to press the power button because the system turns on by default. The system is OFF when the button is sticking out and ON when the button is pushed in. During the shutdown process the power LED flashes green indicating that the process has started. Once the shutdown is complete, the system is powered off. Wait for the system power LEDs to turn off before unplugging the AC power cables.

At the ROMMON or FX-OS prompt:

- Press the power button for 5 seconds and release it to initiate a power cycle. The power LED flashes green at a rate of 2 Hz.
- Press the power button for 15 seconds and release it to initiate a graceful shutdown. The power LED flashes green at a rate of 10 Hz.

Note Firewall Threat Defense requires a graceful shutdown.

Caution If you remove the system power cords before the graceful shutdown is complete, disk corruption can occur. You can move the power switch to OFF before the shutdown. The system ignores it.

Note After removing power from the chassis by unplugging the power cord, wait at least 10 seconds before turning power back ON. You want to keep the system power off, including the standby power, for 10 seconds.

Factory reset button

The chassis has a recessed reset button that resets the system to the factory default. Pushing and holding the button down with a pin for five seconds resets the chassis to its default state following the next reboot. You can use the reset button if the current credentials are lost and you want to initialize the box without having console access.

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

Note If power is lost between when you pushed the reset button and when the reset process is complete, the process stops and you have to push the button again after the system powers back on.

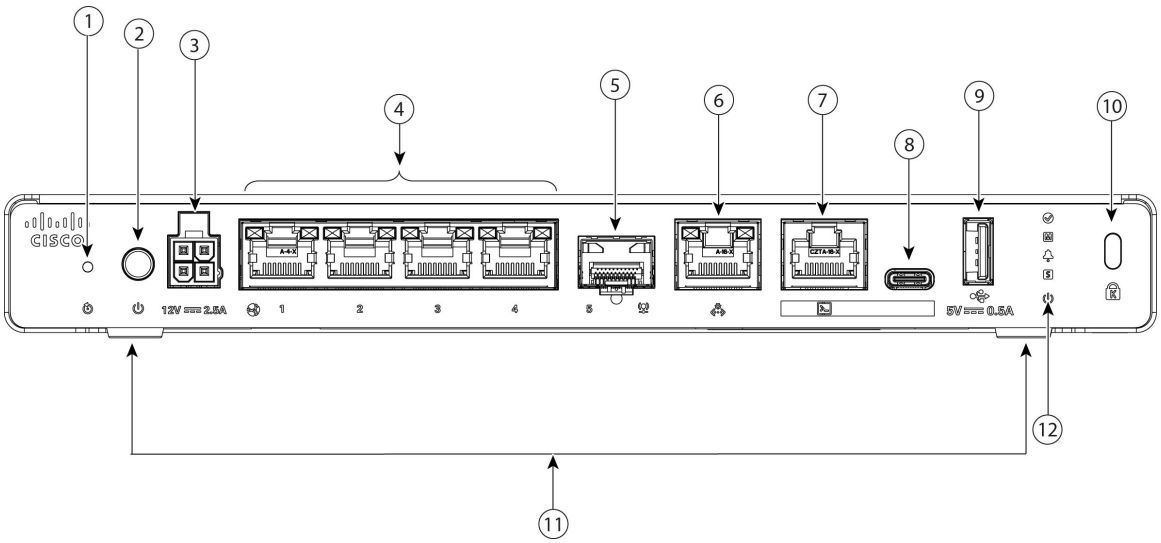
Related Topics

Rear panel LEDs, on page 9
Getting Started Guide

Rear panel

The following figure shows the rear panel of the Secure Firewall 220.

Figure 8: CSF-220 rear panel



1	Reset button	**2**	Power button
3	Input connector	**4**	Ethernet ports: Ethernet 1/1 to Ethernet 1/4
5	SFP port (1 Gbps)	**6**	Management port
7	Console port RJ-45	**8**	Serial console USB Type C port
9	USB Type A port	**10**	Kensington lock
11	Rubber feet	**12**	Status LEDs

Related Topics

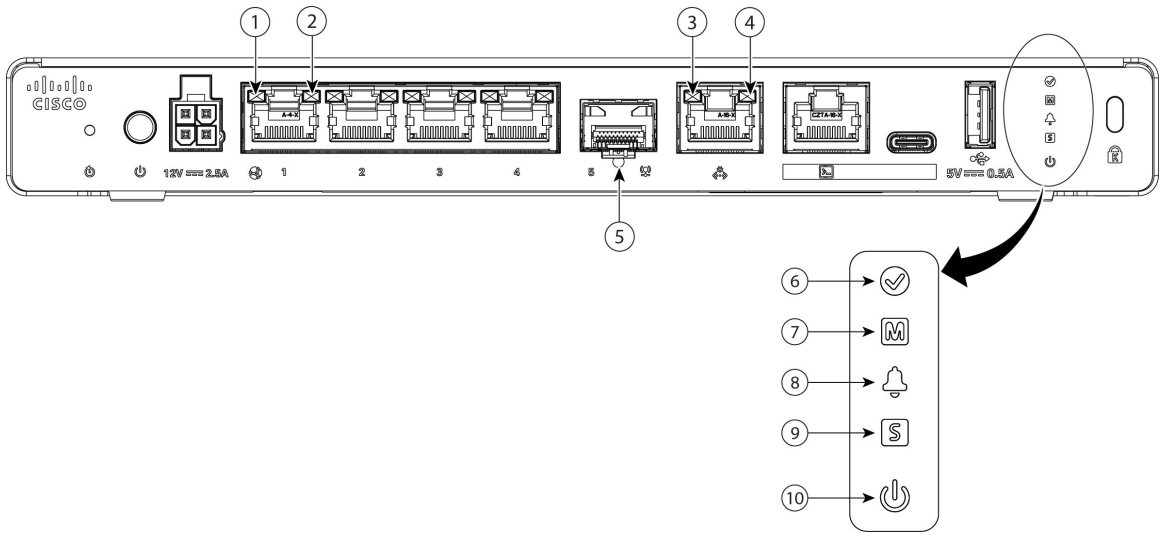
Management, console, USB, network, and PoE+ ports, on page 6
Rear panel LEDs, on page 9

Rear panel LEDs

The LEDs are found on the rear panel of the Secure Firewall 200 series.

The following figure shows the LEDs on the rear panel of the Secure Firewall 220 and describes their states.

Figure 9: CSF-220 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: Activity status (R): • Off—No network activity. • Green—Network activity.
3	**Management** Status of the management ports: Link status (L): • Off—No link, or port is not in use. • Green—Link is established. • Green, flashing—Link activity.	**4**	**Management** Status of the management ports: Activity status (R): • Green, flashing—One flash every three seconds = 10 Mbps. • Green, flashing—Two rapid flashes = 100 Mbps. • Green, flashing—Three rapid flashes = 1000 Mbps.
5	**SFP** Status of SFP port: • Off—No SFP present. • Yellow—An SFP is present but no link is established. • Green, flashing—Link established and transmitting.	**6**	**Active** Status of the failover pair: • Off— Unit in standby mode. • Green—Unit in active mode.

7	**Managed** Cloud connection status for zero-touch provisioning: • Green, flashing slowly (twice in 5 seconds)—Cloud is connected. • Green and yellow, flashing—Cloud connection failure. • Green—Cloud is disconnected.	8	**Alarm** • Off—No alarms. • Yellow—Environmental error.

9	**System**
	System operating status:
	• Off—System has not booted up yet.
	• Green, flashing quickly—System is booting up.
	• Green—Normal system function.
	• Yellow—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.
		10	**Power**
			Power supply status:
			• Off —Power supply off.
			• Green—Power supply on.
			• Green, flashing—System is in the process of a graceful shutdown.
			• Yellow—System power is up, IO-MCU is updating (takes up to 3 minutes), or there is a power fault.

Hardware specifications

The following table contains hardware specifications for the Secure Firewall 220.

Table 2: CSF-220 hardware specifications

Specification	CSF-220
Chassis dimensions (H x W x D)	1.15 x 9.2 x 7.8 inches (2.9 x 23.4 x 19.8 cm)
Chassis weight	2.6 lb (1.18 kg)
Rack-mount shelf dimensions (H x W x D)	1.7 x 17.3 x 15.7 inches 4.3 x 43.9 x 39.9 cm
RPS module rack-mount shelf dimensions (H x W x D)	

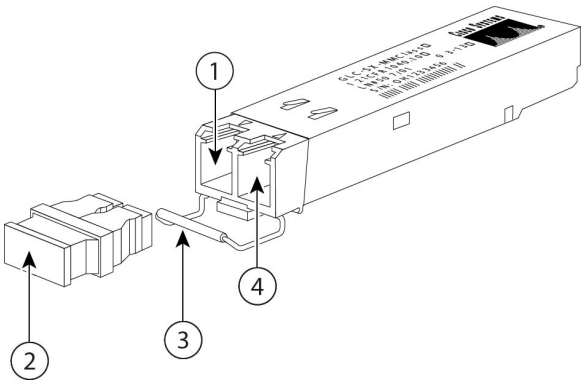
Specification	CSF-220
System power	30 W maximum power
Temperature	Operating: 32 to 104°F (0 to 40°C) Derate the maximum operating temperature 2.7°F (1.5°C) per 1000 ft (304.8 m) above sea level to a max of 10,000 ft (3048 m) Nonoperating: -13 to 158°F (-25 to 70°C) Nonoperating: Maximum altitude is 15,000 ft (4570 m)
Humidity	Operating: 5 to 85% (noncondensing) Nonoperating:5 to 95% (noncondensing)
Altitude	Operating: 0 to 10,000 ft (3048 m) Nonoperating: 0 to 15,000 ft (4570 m)

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 provides Ethernet connectivity.

The following figure shows the components of a transceiver.

Figure 10: SFP transceiver



1	Receive optical bore	**2**	Dust plug
3	Bail clasp	**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 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 third-party SFP transceiver.

The following table lists the SFPs that are supported on the Secure Firewall 220 fixed ports.

Table 3: CSF-220 fixed ports

Port type	Transceiver PID	First supported release
Fixed SFP ports	• GLC-TE= • GLC-SX-MMD= • GLC-LH-SMD= • GLC-EX-SMD= • GLC-GE-100FX= • GLC-FE-100FX-RGD=	Threat Defense 10.0/ASA 9.24

Related Topics

Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

Product IDs

The following table lists the field-replaceable product IDs (PIDs) associated with the Secure Firewall 220 compact appliance. You can order the spare components and replace them 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 Secure Firewall 220.

Table 4: CSF-220 PIDs

PID	Description
CSF220-ASA-K9	Secure Firewall 220 compact desktop appliance, ASA
CSF220-TD-K9	Secure Firewall 220 compact desktop appliance, NGFW
PWR-DT-30W-AC	Secure Firewall 220 30 W AC (12 V) power supply
PWR-DT-30W-AC=	Secure Firewall 220 30 W AC (12 V) power supply (spare)
CSF200-WALL-MNT=	Secure Firewall 200 series wall-mount kit (spare)
CSF200-RCKMNT-FX=	Secure Firewall 200 series rack-mount kit with fixed brackets (spare)
CSF200-RCKMNT-SR=	Secure Firewall 200 series rack-mount kit with slide rails (spare)
CSF200-CBL-MGMT=	Secure Firewall 200 series cable management brackets kit (spare)

Related Topics

Cisco Returns Portal
Cisco Secure Firewall Threat Defense Command Reference
Cisco Secure Firewall ASA Series Command Reference

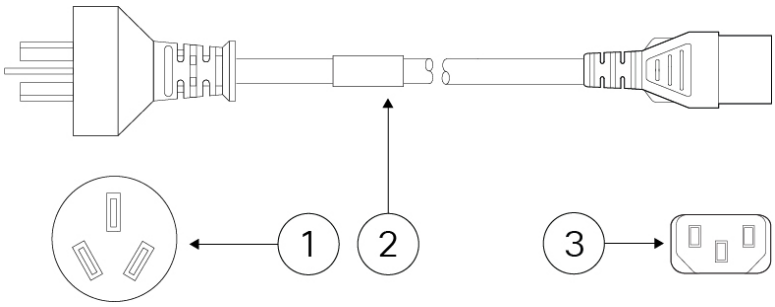
Power cord specifications

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.

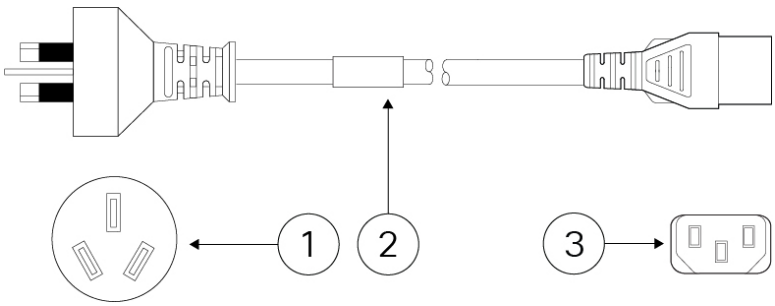
The following power cords are supported.

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



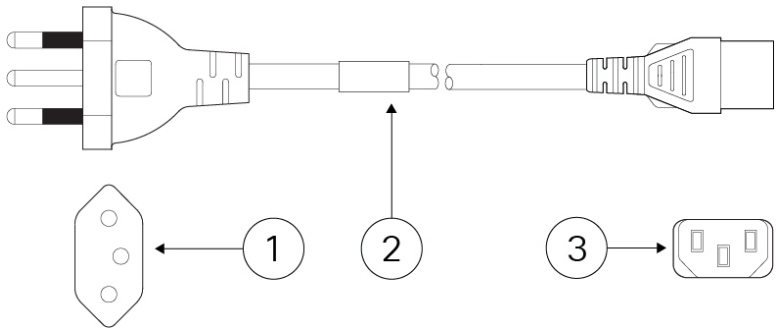
1	Plug: VA2073	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 12: Australia/New Zealand (CAB-ACA)



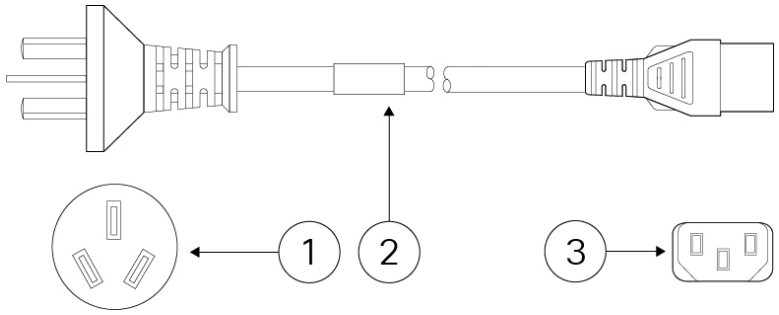
1	Plug: AU10LS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 13: Brazil (CAB-C13-ACB)



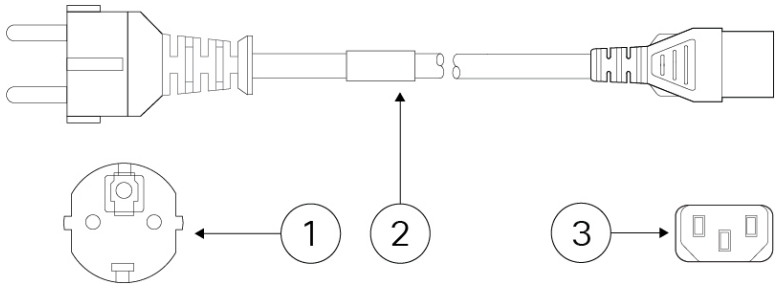
1	Plug: NBR 14136	**2**	Cord set rating: 10 A, 250 V
3	Connector: EL 701B (EN 60320/C13)		—

Figure 14: China (CAB-ACC)



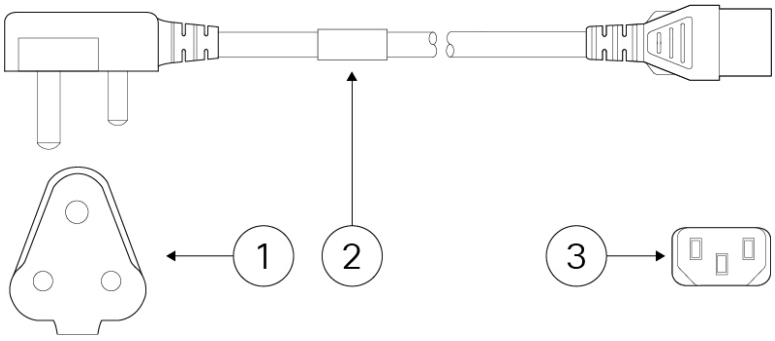
1	Plug: V3203C	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 15: Europe (CAB-ACE)



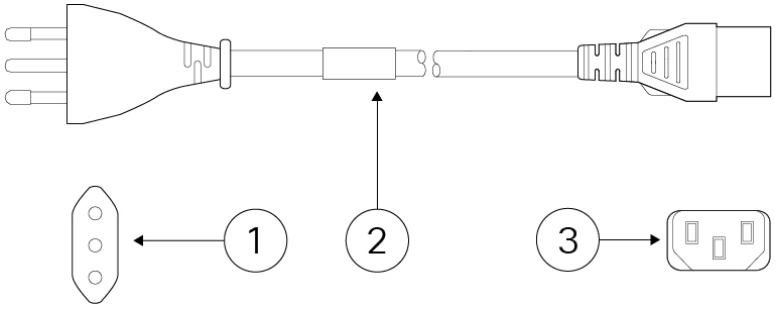
1	Plug: M2511	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625		—

Figure 16: India (CAB-IND-10A)



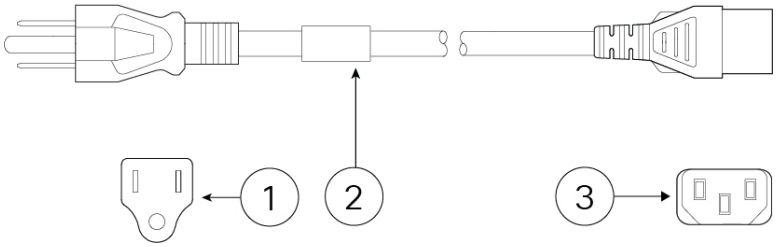
1	Plug: IA16A3-C	**2**	Cord set rating: 16 A, 250 V
3	Connector: V1625BS-E		—

Figure 17: Italy (CAB-ACI)



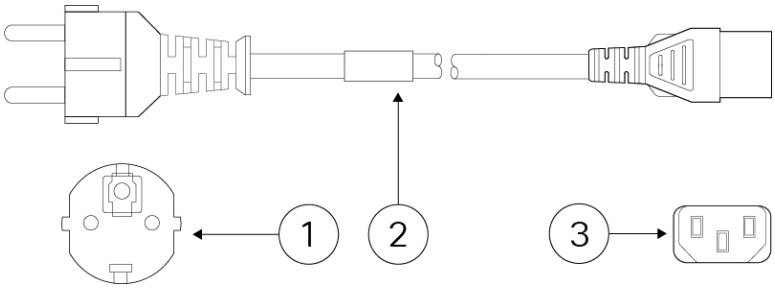
1	Plug: IT10S3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

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



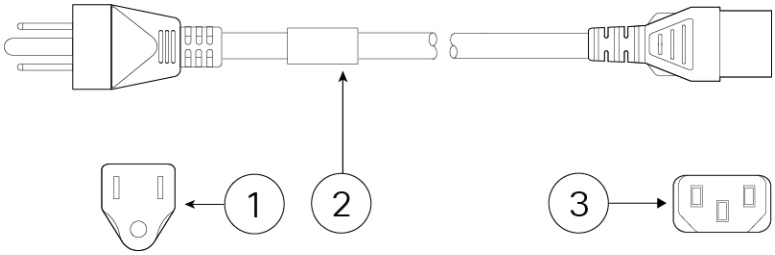
1	Plug: M744	**2**	Cord set rating: 12 A, 125 V
3	Connector: V1625		—

Figure 19: Korea (CAB-AC-C13-KOR)



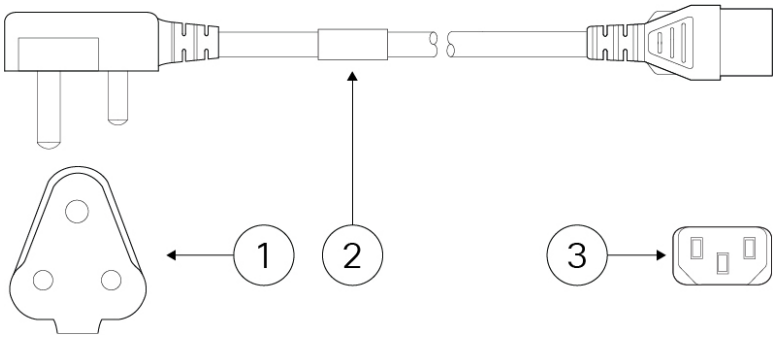
1	Plug: M2511	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 20: North America (CAB-AC)



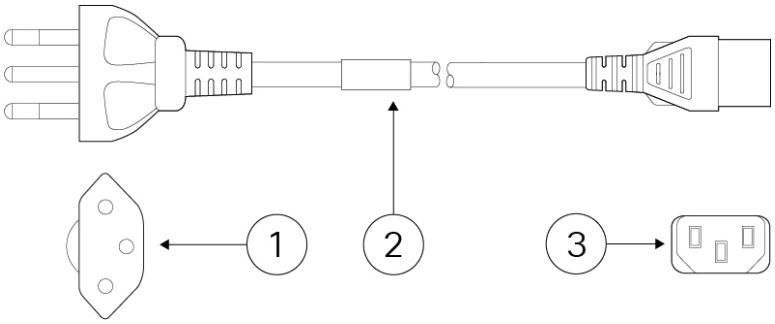
1	Plug: PS204	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 21: South Africa (AIR-PWR-CORD-SA)



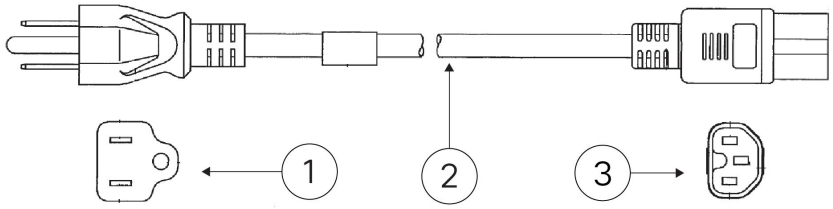
1	Plug: SA16A	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 22: Switzerland (CAB-ACS)



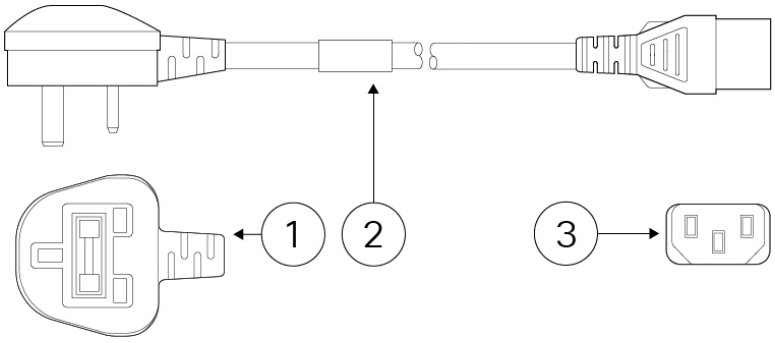
1	Plug: SW10ZS3	**2**	Cord set rating: 10 A, 250 V
3	Connector: V1625		—

Figure 23: Taiwan (CAB-AC-TAI)



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

Figure 24: United Kingdom (CAB-ACU)



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