



Technical Specifications

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Environmental Specifications for the Cisco UCS Equipment

Table 1: Environmental Specifications for the Cisco UCS 5108 Blade Chassis

Description	Cisco UCS 5108 Blade Chassis
Operating Temperature	
0 to 10,000 feet (0 to 3000 m)	50 to 95°F (10 to 35°C)
Above 10,000 feet (3,000 m)	Subtract 1°C (1.8°F) for each 1000 feet above 10,000 feet
Nonoperating Temperature	
0 to 40,000 feet (0 to 12,190 m)	–40 to 149°F (–40 to 65°C)
Relative humidity (noncondensing)	10 to 90%
Noise (Sound power levels ¹)	83 dBA at normal operating conditions

¹ Based on ISO 3744.

Table 2: Environmental Specifications for the Cisco UCS 6100 Series or UCS 6200 Series Fabric Interconnect

Description	Cisco UCS 6100 Fabric Interconnect
Operating Temperature	
0 to 10,000 feet (0 to 3000 m)	50 to 95°F (10 to 35°C)
Above 10,000 feet (3,000 m)	Subtract 1°C (1.8°F) for each 1000 feet above 10,000 feet
Nonoperating Temperature	
0 to 40,000 feet (0 to 12,190 m)	–40 to 149°F (–40 to 65°C)
Relative humidity (noncondensing)	10 to 90%
Noise (Sound pressure levels ²)	68 dBA at normal operating conditions

² Based on ISO 7779.

Physical Specifications for the Cisco UCS Equipment

The Cisco UCS 5108 Blade Server Chassis ships in a package that includes the following components:

- One blade chassis
- Up to eight half-width or four full-width blade servers
- Up to two fabric extenders
- Eight fan modules
- Up to four AC or DC power supply units
- Accessory kit
- Blanking panels for any chassis slots not filled with blade servers, fabric extenders, or power supply units

The Cisco UCS 6100 Series Fabric Interconnect ships in a package that includes the following components:

- One fabric interconnect chassis
- One expansion module
- Up to two power supply units
- Two fan modules
- Accessory kit
- Blanking panels for any power supply slot not filled

The Cisco UCS 6200 Series Fabric Interconnect ships in a package that includes the following components:

- One fabric interconnect chassis

- One expansion module
- Up to two power supply units
- Two fan modules
- Accessory kit
- Blanking panels for any power supply slot not filled

Table 3: Dimensions and Weight for the Cisco UCS Shipping Packages

Chassis	Width	Depth	Height	Weight
Cisco UCS 5108 Blade Server Chassis	25 inches (63.5 cm)	40.0 inches (101.6 cm)	33.5 inches (85.1 cm)	Up to 300 lbs. (136.1 kg)
Cisco UCS 6120 Fabric Interconnect	24 inches (61.0 cm)	40.0 inches (101.6 cm)	9.0 inches (22.9 cm)	Up to 40 lbs. (18.1 kg)
Cisco UCS 6248 Fabric Interconnect	24 inches (61.0 cm)	40.0 inches (101.6 cm)	9.0 inches (22.9 cm)	Up to 40 lbs. (18.1 kg)

Table 4: Dimensions for the Unpacked Cisco UCS Equipment

Chassis	Width	Depth	Height
Cisco UCS 5108 Blade Server Chassis	17.5 inches (44.5 cm)	32.0 inches (81.2 cm)	10.5 inches (26.7 cm) (6 RU)
Cisco UCS 6120 Fabric Interconnect	17.3 inches (43.9 cm)	30.0 inches (76.2 cm)	1.72 inches (4.4 cm) (1 RU)
Cisco UCS 6248 Fabric Interconnect	17.3 inches (43.9 cm)	29.5 inches (74.9 cm)	1.72 inches (4.4 cm) (1 RU)

Table 5: Weights and Quantities for the Cisco UCS 5108 Blade Server Chassis Components

Component	Weight per Unit	Quantity
Chassis (empty)	90 lbs. (40.8 kg)	1
B200 Blade Server	13.5 lbs (6.1 kg) ³	1 to 8
B230 Blade Server	18.0 lbs (8.16 kg) ₆	1 to 8
B250 Blade Server	25 lbs (11.34 kg) ₆	1 to 4
B440 Blade Server	34.5 lbs (15.65 kg) ₆	1 to 4

Component	Weight per Unit	Quantity
B22 M3 Blade Server	13.5 lbs (6.1 kg) ₆	1 to 8
B200 M3 Blade Server	15.0 lbs (6.8 kg) ₆	1 to 8
B420 M3 Blade Server	34.5 lbs (15.65 kg) ₆	1 to 4
Fabric Extender	2.5 lbs. (1.1 kg)	1 or 2
Power distribution unit	5 lbs. (2.3 kg)	1
Fan module	1.8 lbs. (0.8 kg)	8
Hard disk drive module	0.8 lbs. (0.4 kg)	2 per blade server
Power supply unit	7 lbs. (3.2 kg)	1 to 4

³ The system weight listed here is an estimate for a fully configured system and will vary depending on peripheral devices installed.

Table 6: Weights for the Cisco UCS Fabric Interconnects

Component	Weight per Unit
Cisco UCS 6120XP with two power supplies and one expansion module installed	35 lbs. (15.9 kg)
Cisco UCS 6140XP with two power supplies and two expansion modules installed	50 lbs. (22.68 kg)
Cisco UCS 6248 UP with two power supplies and one expansion module installed	32 lbs. (14.51 kg)
Cisco UCS 6296 UP with two power supplies, three expansion module, and four fan modules	50 lb (22.67 kg)

Power Specifications

Specifications for the Cisco UCS 5108 Blade Server Chassis Power Supply Units

Table 7: AC-input Gold Power Supply (N20-PAC5-2500W) Specifications

Description	Specification
Minimum Software requirement	UCS Software Release 1.0(1)
AC-input voltage	200 to 240 VAC nominal (Range: 180 to 264 VAC)

Description	Specification								
AC-input frequency	50 to 60 Hz nominal (Range: 47 to 63 Hz)								
AC-input current	15.5 A @ 200 VAC								
Maximum Input VA	2790 VA @ 200 VAC								
Maximum output power per power supply	2500 W @ 200 to 240 VAC (up to four power supplies)								
Maximum inrush current	35 A < sub cycle duration								
Maximum Heat Output	8525 BTU								
Maximum hold up time	12 ms								
Power supply output voltage	12 VDC								
Efficiency Rating	Climate Savers Gold								
Efficiency (80Plus Gold Certified)	<table><tr><td>10%</td><td>20%</td><td>50%</td><td>100%</td></tr><tr><td>88.61%</td><td>91.64%</td><td>92.21%</td><td>90.97%</td></tr></table>	10%	20%	50%	100%	88.61%	91.64%	92.21%	90.97%
10%	20%	50%	100%						
88.61%	91.64%	92.21%	90.97%						
Input connector	IEC320 C20								

Table 8: AC-input Platinum Power Supply (UCSB-PSU-2500ACPL) Specifications

Description	Specification
Minimum Software requirement	UCS Software Release 2.0(2)
AC-input voltage	200 to 240 VAC nominal (Range: 180 to 264 VAC)
AC-input frequency	50 and 60 Hz nominal (Range: 47 to 63 Hz)
AC-input current	< 16 Amps @ 200 VAC
Maximum Input VA	2790 VA @ 200 VAC
Maximum output power per power supply	2500 W (up to four power supplies)
Maximum inrush current	35 A (sub cycle duration)
Maximum Heat Output	8530 BTU
Maximum hold up time	12 ms @ 2500 W
Power supply output voltage	12 VDC @ 208 A

Description	Specification
Power supply standby voltage	3.3 VDC @ 5A
Efficiency Rating	Climate Savers Platinum
Efficiency (80 Plus Platinum Certified)	20% 50% 100% 90% 94% 91%
Input connector	IEC320 C20

Table 9: DC-Input Power Supply (N20-DC-2500) Specifications

Item	Specification
Minimum software requirement	Cisco UCS Software Release 2.0(1)
DC-input voltage	–48 to –60 VDC
DC-input current	62 A maximum @ –48 VDC input
Output power	2500 W
Current draw at min voltage	62 A
Current draw at max voltage	50 A
Maximum KVA rating	2.5
DC input terminal block	Accepts Panduit LCD4-14AF-L or equivalent barrel-type lug terminals with 90-degree angle, two-hole tongue, which accommodates 1/0 AWG size copper wire. The connector tongue width is 0.82 in, the stud hole spacing is 5/8 in, and the hole size is 1/4 in.
Output holdup time	8 ms
Max heat dissipation	8525 BTUs/hr

DC wiring must meet your local codes and regulations, we recommend using a licensed local electrician to install the DC wiring needed.

To determine the number of power supply units needed for the blade server, remember that each single slot server is budgeted a max 550 W and each full width server is budgeted a max 1100 W. For a more detailed estimate, contact Cisco Sales.

Supported AC Power Cords and Plugs

The AC power connectors on the blade server chassis PDU use an IEC 320 C20 socket. Each chassis power supply has a separate power cord. The power cord that you use to connect the blade server power supply units to an AC power source will have an IEC 320 C19 plug on one end and on the other end one that conforms to the AC power outlet specifications for your country. See the following table to determine which cord to order for your blade server chassis power supply units. When you determine which power cord you need to order, you can verify that its plugs conform to the power outlets for your facility by clicking on its reference link.

The jumper power cords, for use in racks, are available as an optional alternative to the standard power cords. The optional jumper power cords have an IEC C19 connector (such as a Cisco RP Series PDU) on the end that plugs into the chassis' PDU and an IEC C20 connector on the end that plugs into an IEC C19 outlet receptacle. For more information, contact your Cisco Systems representative.



Note

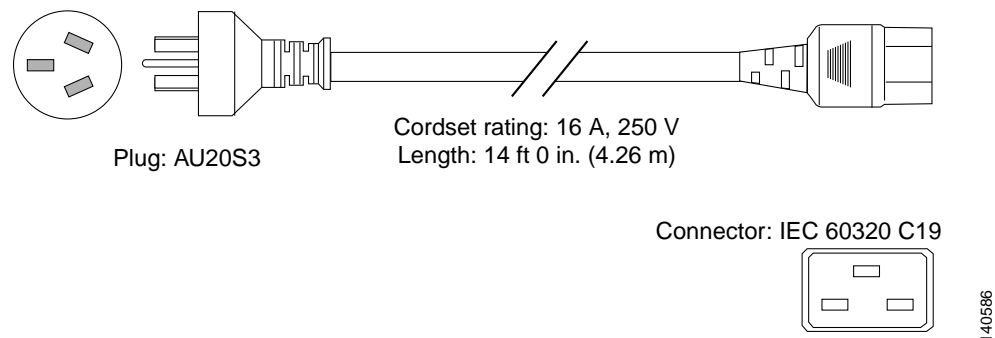
Only the regular power cords or jumper power cords provided with the chassis are supported.

Australia and New Zealand

Power Cord Part Number—CAB-AC-16A-AUS

Cord Set Rating—16A, 250 VAC

Figure 1: CAB-AC-16A-AUS Power Cord for the Cisco UCS 5108 Blade Server Chassis

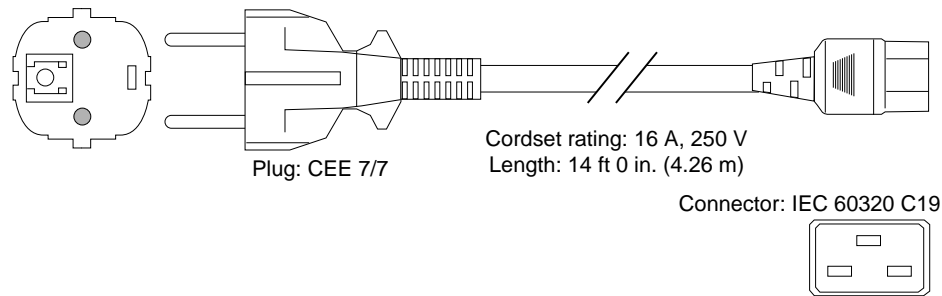


Continental Europe

Power Cord Part Number—CAB-AC-2500W-EU

Cord Set Rating—16A, 250 VAC

Figure 2: CAB-AC-2500W-EU Power Cord for the UCS 5108 Blade Server Chassis



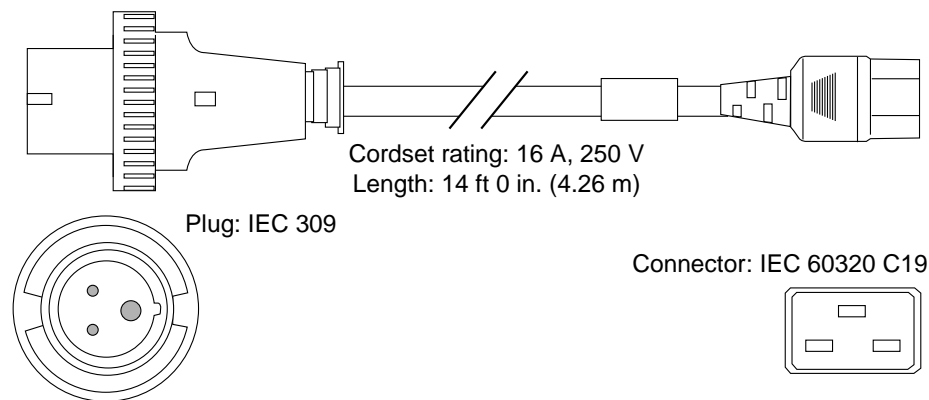
113360

International

Power Cord Part Number—CAB-AC-2500W-INT

Cord Set Rating—16A, 250 VAC

Figure 3: CAB-AC-2500W-INT Power Cord for the UCS 5108 Blade Server Chassis



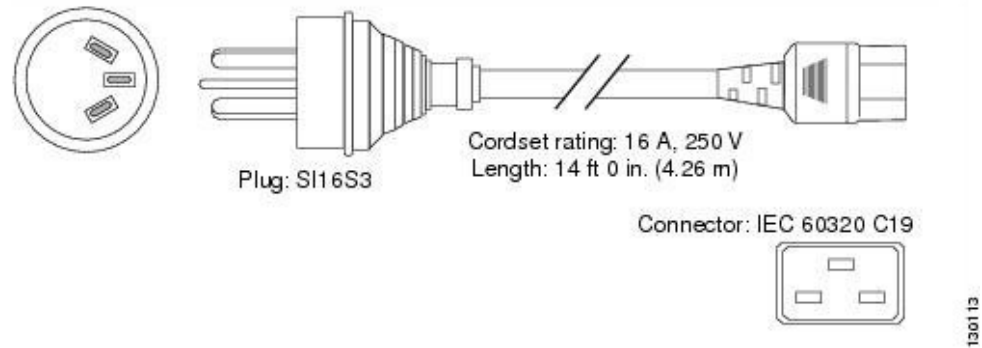
113361

Israel

Power Cord Part Number—CAB-AC-2500W-ISRL

Cord Set Rating—16A, 250 VAC

Figure 4: CAB-AC-2500W-ISRL Power Cord for the UCS 5108 Blade Server Chassis



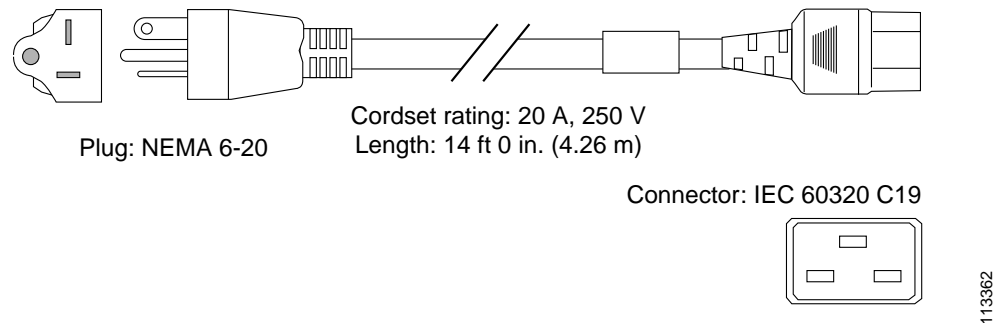
Japan and North America

Non-Locking 200 to 240 VAC operation

Power Cord Part Number—CAB-AC-2500W-US1

Cord Set Rating—16A, 250 VAC

Figure 5: CAB-AC-2500W-US1 Power Cord for the UCS 5108 Blade Server Chassis

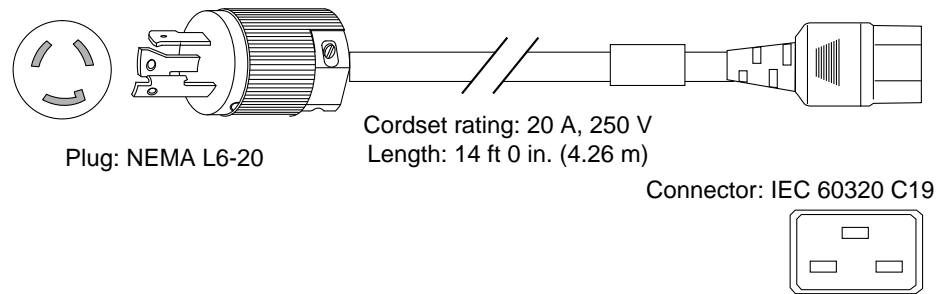


Locking 200 to 240 VAC Operation

Power Cord Part Number—CAB-AC-C6K-TWLK

Cord Set Rating—16A, 250 VAC

Figure 6: CAB-AC-C6K-TWLK Power Cord for the UCS 5108 Blade Server Chassis



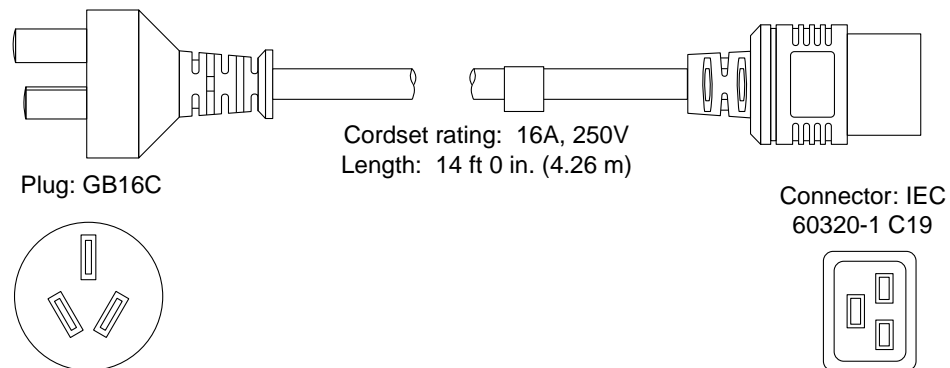
113363

Peoples Republic of China

Power Cord Part Number—CAB-AC-16A-CH

Cord Set Rating—16A, 250 VAC

Figure 7: CAB-AC-16A-CH Power Cord for the Cisco UCS 5108 Blade Server Chassis



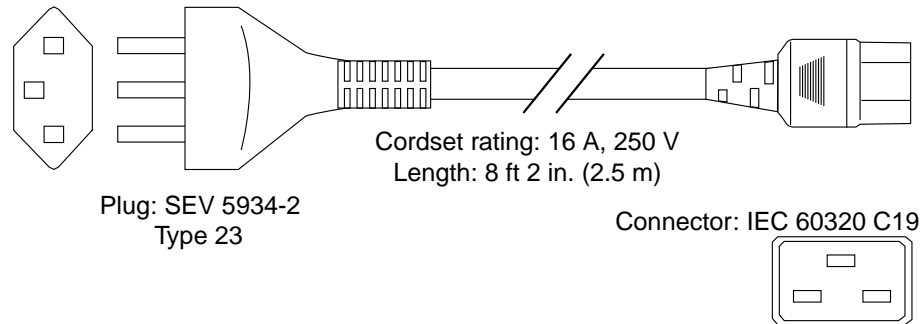
126792

Switzerland

Power Cord Part Number—CAB-ACS-16

Cord Set Rating—16A, 250 VAC

Figure 8: CAB-ACS-16 Power Cord for the UCS 5108 Blade Server Chassis



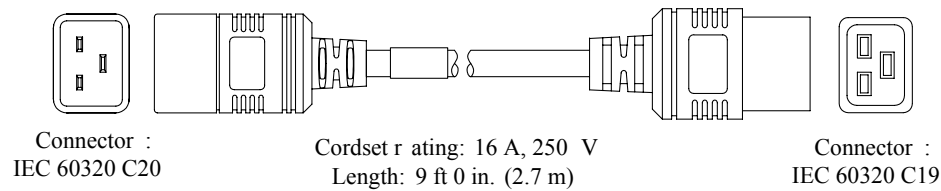
192844

Power Distribution Unit (PDU)

Power Cord Part Number—CAB-C19-CBN

Cord Set Rating—Not applicable

Figure 9: CAB-C19-CBN Power Cord for the UCS 5108 Blade Server Chassis



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Power Specifications for the Cisco UCS 6100 Fabric Interconnects

One power supply is required for basic operation, two power supplies provides redundancy.

Table 10: Power Specifications for the Cisco UCS 6120XP Power Supply Units

Description	Specification
AC-input voltage	90 to 264 VAC
AC-input frequency	50 to 60 Hz nominal (Range: 47 to 63 Hz)
AC-input current	7.5 Amps @ 90 VAC
Maximum Input VA	675 VA @ 90 VAC
Maximum output power per power supply	550 W @ 12 V (up to two power supplies)

Description	Specification
Maximum inrush current	35 A <sub cycle duration
Maximum Heat Output	1876 BTU/hr
Maximum hold up time	12 ms
Power supply output voltage	12 VDC

Table 11: Power Specifications for the Cisco UCS 6140XP Power Supply Units

Description	Specification
AC-input voltage	90 to 264 VAC
AC-input frequency	50 to 60 Hz nominal (Range: 47 to 63 Hz)
AC-input current	9.2 Amps @ 90 VAC
Maximum Input VA	828 VA @ 90 VAC
Maximum output power per power supply	750 W @ 12 VDC (up to two power supplies)
Maximum inrush current	35 A <sub cycle duration
Maximum Heat Output	2561 BTU/hr
Maximum hold up time	12 ms
Power supply output voltage	12 VDC

Supported AC Power Cords and Plugs

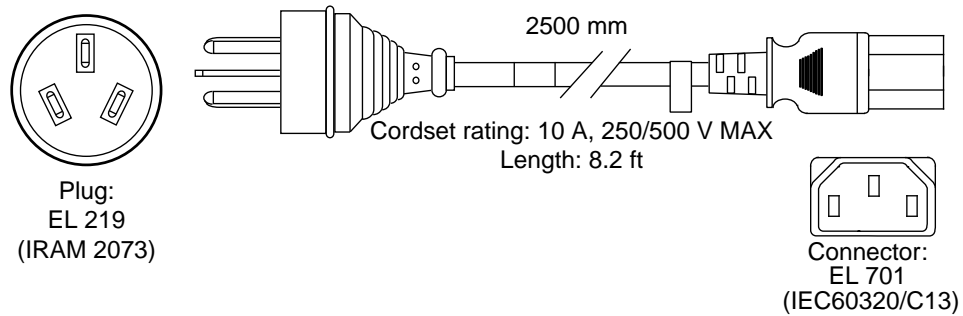
The AC power supply connector on the UCS 6100 series fabric interconnect chassis is an IEC 320 C13 socket. The power cable that you use to connect the fabric interconnect power supply units to an AC power outlet will have an IEC 320 C14 plug on one end and a plug on the other end that conforms to the AC power outlet specifications for your country. To determine which cable to order for your fabric interconnect power supply units, see the table below. When you determine which power cord you need to order, you can verify that its plugs conform to the power outlets for your facility by clicking on its reference link.

Argentina

Power Cord Part Number—SFS-250V-10A-AR

Cord Set Rating—10A, 250 VAC

Figure 10: SFS-250V-10A-AR Power Cord for the Cisco UCS 6100 Series Fabric Interconnect



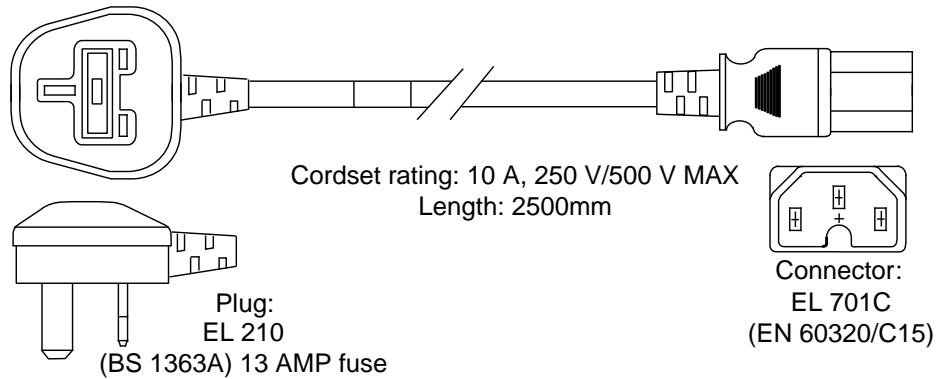
186571

Australia and New Zealand

Power Cord Part Number—CAB-9K10A-AU

Cord Set Rating—10A, 250 VAC

Figure 11: CAB-9K10A-AU Power Cord for the Cisco UCS 6100 Series Fabric Interconnect

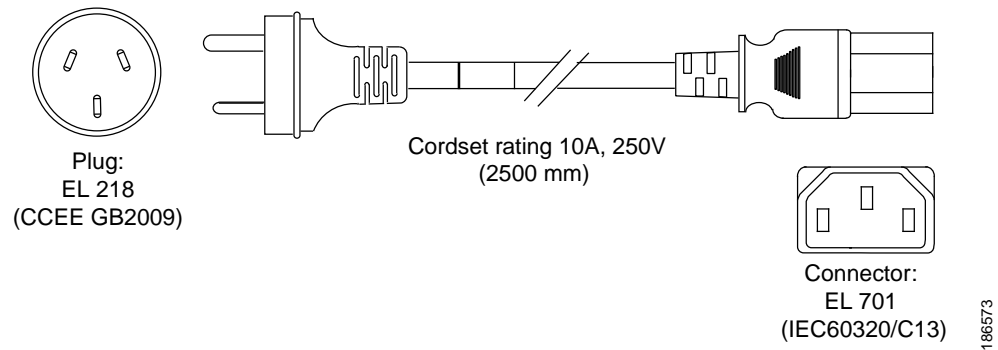


186580

Peoples Republic of China

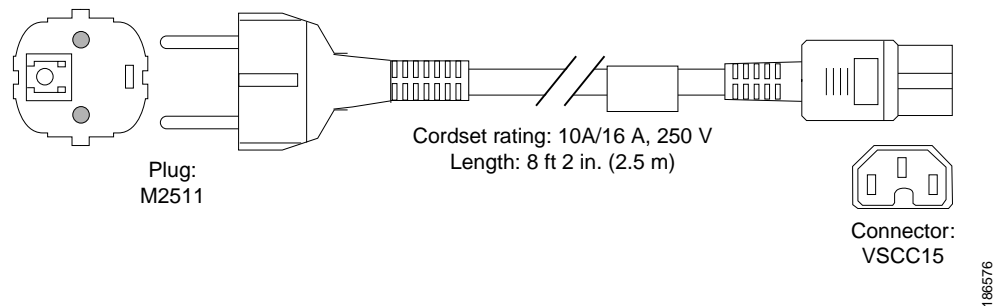
Power Cord Part Number—SFS-250V-10A-CN

Cord Set Rating—10A, 250 VAC

Figure 12: SFS-250V-10A-CN Power Cord for the Cisco UCS 6100 Series Fabric Interconnect**Continental Europe**

Power Cord Part Number—CAB-9K10A-EU

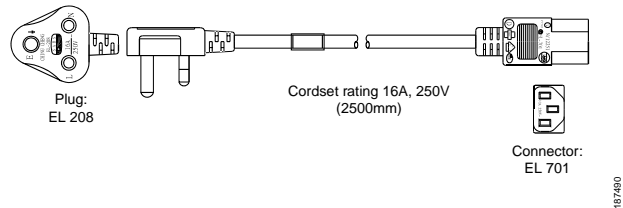
Cord Set Rating—10A, 250 VAC

Figure 13: CAB-9K10A-EU Power Cord for the Cisco UCS 6100 Series Fabric Interconnect

India, South Africa, and United Arab Emirates

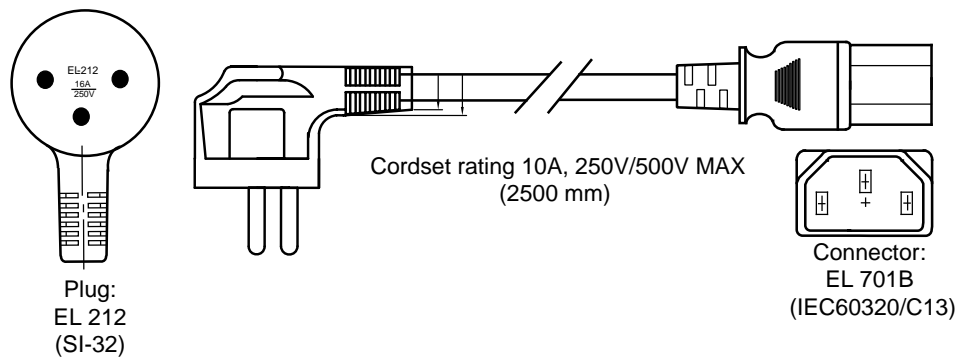
Power Cord Part Number—SFS-250V-10A-ID

Cord Set Rating—16A, 250 VAC

Figure 14: SFS-250V-10A-ID Power Cord for the Cisco UCS 6100 Series Fabric Interconnect**Israel**

Power Cord Part Number—SFS-250V-10A-IS

Cord Set Rating—10A, 250 VAC

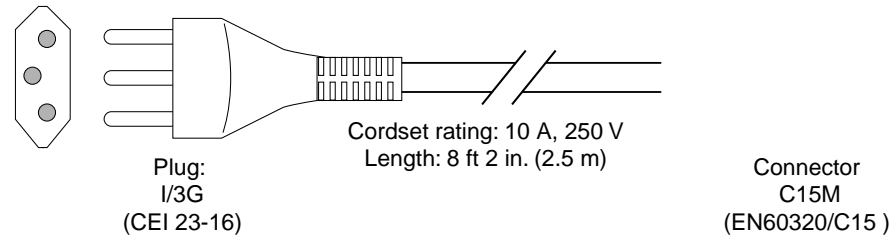
Figure 15: SFS-250V-10A-IS Power Cord for the Cisco UCS 6100 Series Fabric Interconnect

Italy

Power Cord Part Number—CAB-9K10A-IT

Cord Set Rating—10A, 250 VAC

Figure 16: CAB-9K10A-IT Power Cord for the Cisco UCS 6100 Series Fabric Interconnect



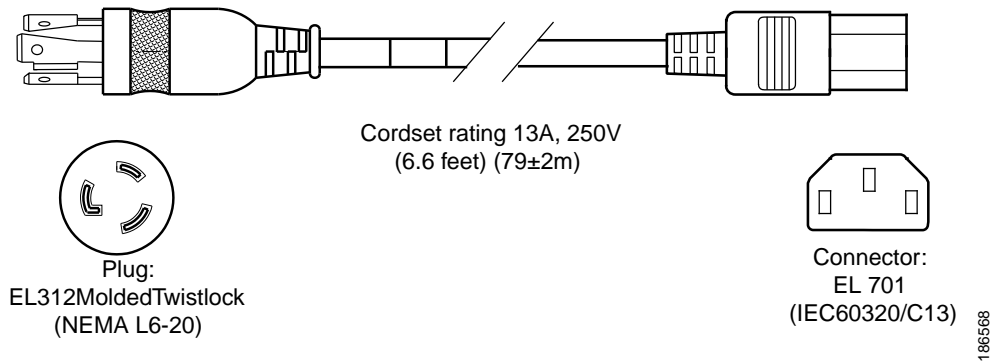
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North America

Power Cord Part Number—CAB-AC-250V/13A

Cord Set Rating—13A, 250 VAC

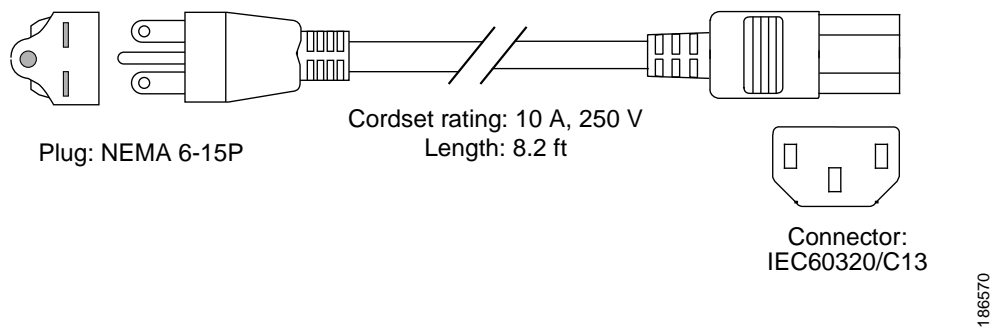
Figure 17: CAB-AC-250V/13A Power Cord for the Cisco UCS 6100 Series Fabric Interconnect



Power Cord Part Number—CAB-N5K6A-NA

Cord Set Rating—13A, 250 VAC

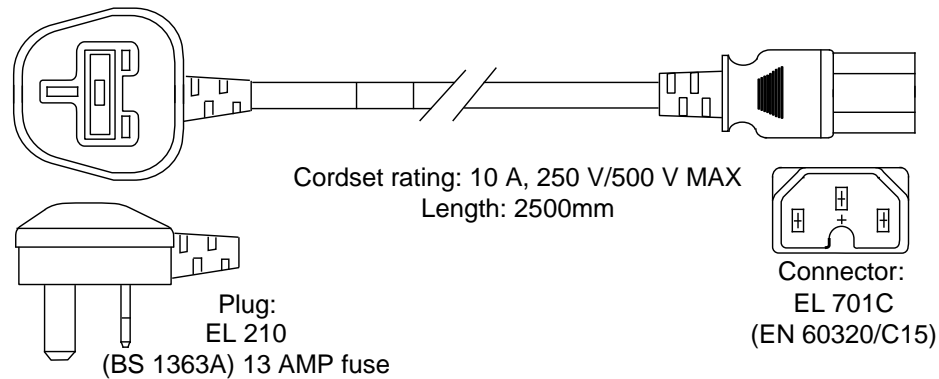
Figure 18: CAB-N5K6A-NA Power Cord for the Cisco UCS 6100 Series Fabric Interconnect



Switzerland

Power Cord Part Number—CAB-9K10A-SW

Cord Set Rating—10A, 250 VAC

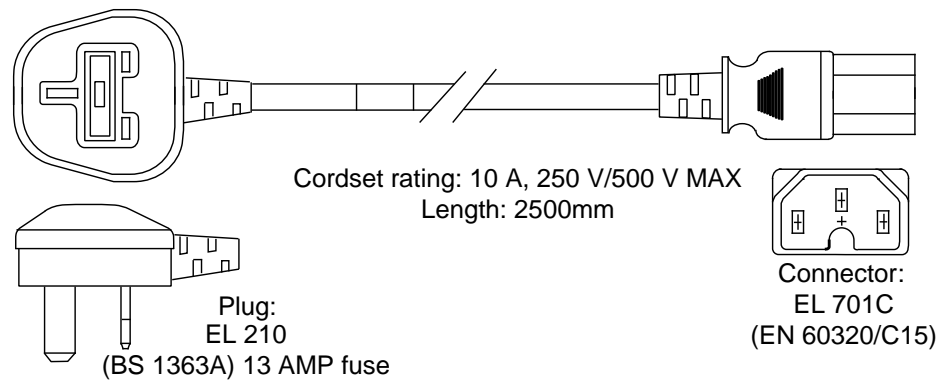
Figure 19: CAB-9K10A-SW Power Cord for the Cisco UCS 6100 Series Fabric Interconnect

186580

United Kingdom

Power Cord Part Number—CAB-9K10A-UK

Cord Set Rating—10A, 250 VAC

Figure 20: CAB-9K10A-UK Power Cord for the Cisco UCS 6100 Series Fabric Interconnect

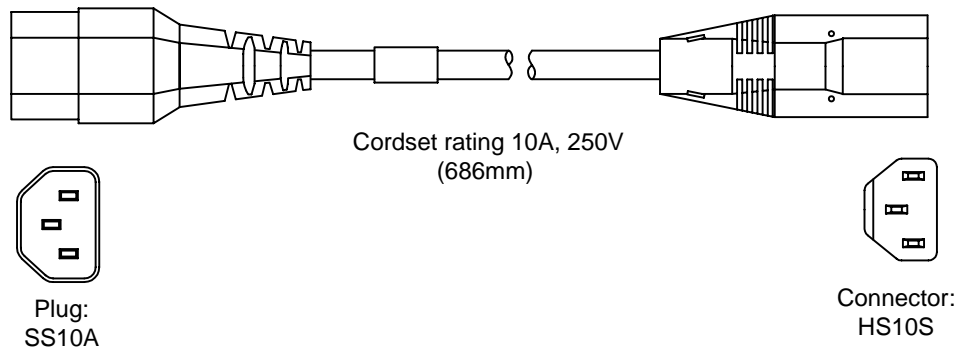
186580

Cabinet Jumper Power Cord

Power Cord Part Number—CAB-C13-C14-JMPR

Cord Set Rating—13A, 250 VAC

Figure 21: CAB-C13-C14-JMPR Power Cord for the Cisco UCS 6100 Series Fabric Interconnect



Power Specifications for the Cisco UCS 6200 Fabric Interconnects

One power supply is required for basic operation, having two power supplies provides redundancy.

Table 12: Specifications for the Cisco UCS 6248UP AC Power Supply(UCS-PSU-6248UP-AC=)

AC Power Supply Properties	Cisco UCS 6248UP fabric interconnect
Maximum output power	750 W
Input voltage	90 to 264 VAC
Frequency	50 to 60 Hz
Efficiency	87 to 92% (50 to 100% load)
RoHS compliance	Yes
Hot swappable	Yes
Heat dissipation	2497 BTU/hr (600 W)

One power supply is required for basic operation, having two power supplies provides redundancy.

Table 13: Specifications for the Cisco UCS 6248UP DC Power Supply(UCS-PSU-6248UP-DC=)

DC Power Supply Properties	Cisco UCS 6248UP fabric interconnect
Maximum output power	750 W
Input voltage	-40 to -72 VDC
DC-input current at max voltage	25 A maximum @ -40 VDC input
Efficiency	88 to 92% (50 to 100% load)
Maximum input KVA rating	820
DC input terminal block	If a replacement DC connector is needed, a Phoenix Contact part number PC 5/ 2-STF-7,62, order number 1975697 or direct equivalent. Connector information is available at: http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1975697
Output holdup time	4 ms
RoHS compliance	Yes
Hot swappable	Yes
Heat dissipation	2497 BTU/hr (750 W)

Supported AC Power Cords and Plugs

Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to a power distribution unit having IEC 60320 C13 outlet receptacles. The jumper power cords, for use in cabinets, are available as an optional alternative to the standard power cords.

The standard power cords have an IEC C13 connector on the end that plugs into the power supplies. The optional jumper power cords have an IEC C13 connector on the end that plugs into the power supplies, and an IEC C14 connector on the end that plugs into an IEC C13 outlet receptacle.



Note

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

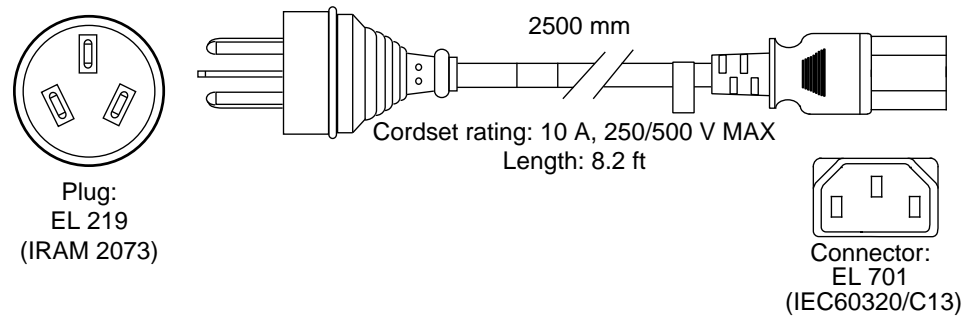
Argentina

Power Cord—SFS-250V-10A-AR

Plug—250 VAC 10 A IRAM 2073

Length—8.2 feet / 2.5 meters

Figure 22: SFS-250V-10A-AR



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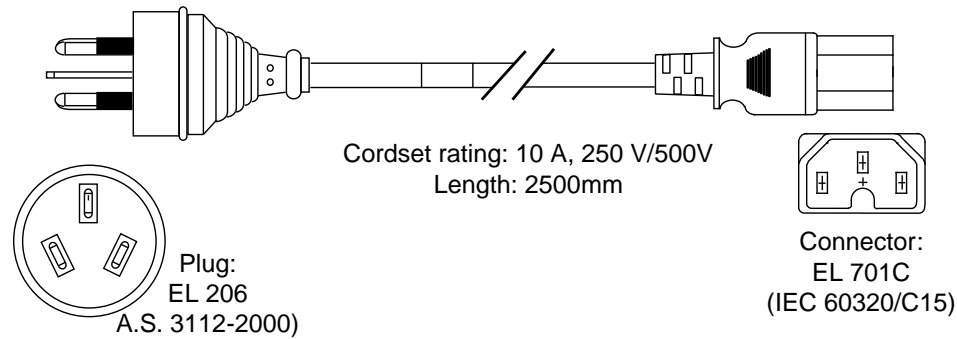
Australia and New Zealand

Power Cord—CAB-9K10A-AU

Plug—250 VAC 10 A 3112

Length—8.2 feet / 2.5 meters

Figure 23: CAB-9K10A-AU



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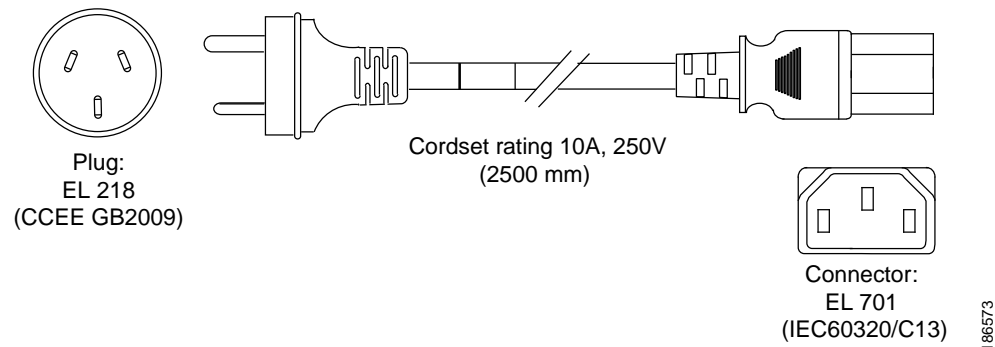
Peoples Republic of China

Power Cord—SFS-250V-10A-CN

Plug—250 VAC 10 A GB 2009

Length—8.2 feet / 2.5 meters

Figure 24: SFS-250V-10A-CN



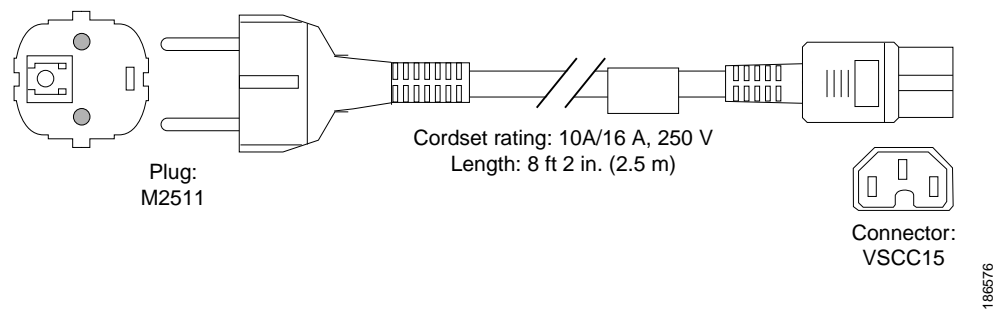
Europe

Power Cord—CAB-9K10A-EU

Plug—250 VAC 10 A M 2511

Length—8.2 feet / 2.5 meters

Figure 25: CAB-9K10A-EU



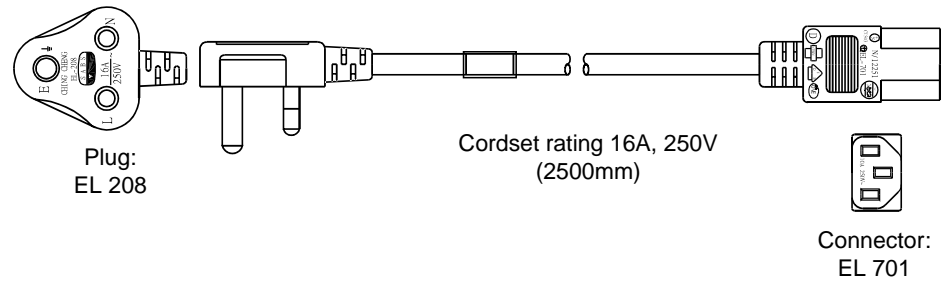
India, South Africa, and United Arab Emirates

Power Cord—SFS-250V-10A-ID

Plug—250 VAC 16A EL-208

Length—8.2 feet / 2.5 meters

Figure 26: SFS-250V-10A-ID



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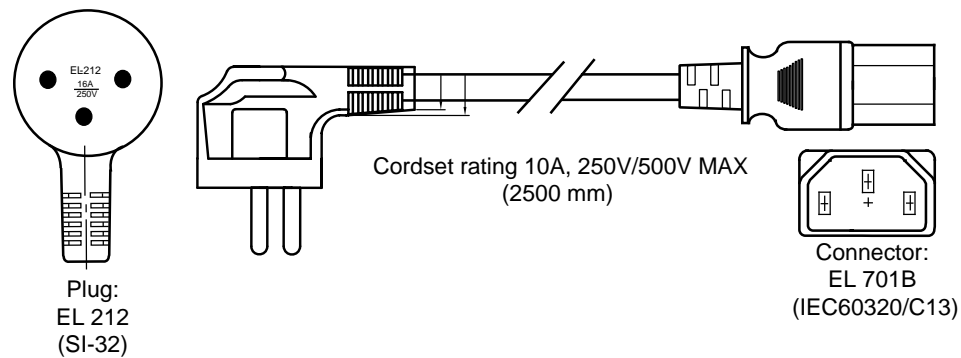
Israel

Power Cord—SFS-250V-10A-IS

Plug—250 VAC 10 A SI32

Length—8.2 feet / 2.5 meters

Figure 27: SFS-250V-10A-IS



186574

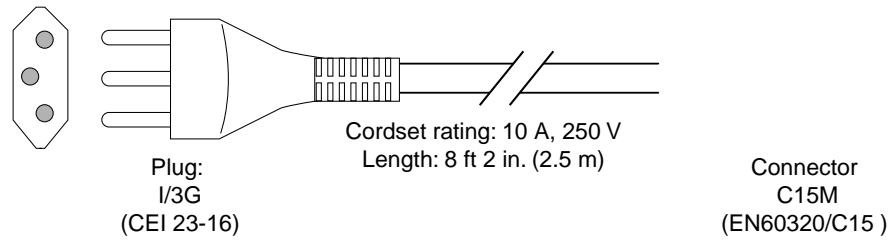
Italy

Power Cord—CAB-9K10A-IT

Plug—250 VAC 10 A CEI 23-16

Length—8.2 feet / 2.5 meters

Figure 28: CAB-9K10A-IT



186575

North America

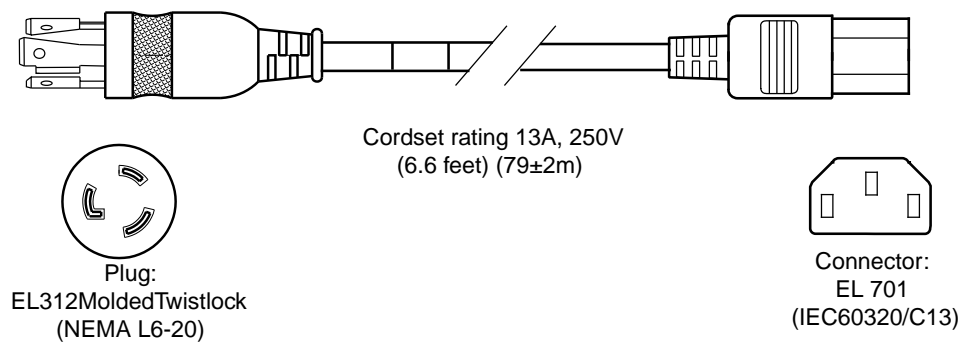
CAB-AC-250V/13A

Power Cord—CAB-AC-250V/13A

Plug—250 VAC 13 A IEC60320

Length—6.6 feet / 2.0 meters

Figure 29: CAB-AC-250V/13A



186568

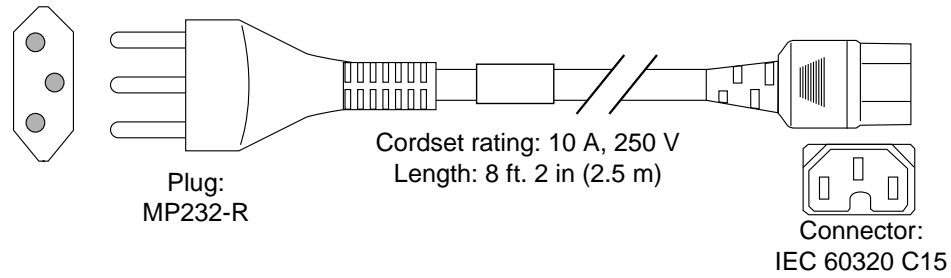
CAB-N5K6A-NA

Power Cord—CAB-N5K6A-NA

Plug—250 VAC 13 A NEMA 6-15

Length—8.2 feet / 2.5 meters

Figure 30: CAB-N5K6A-NA



186578

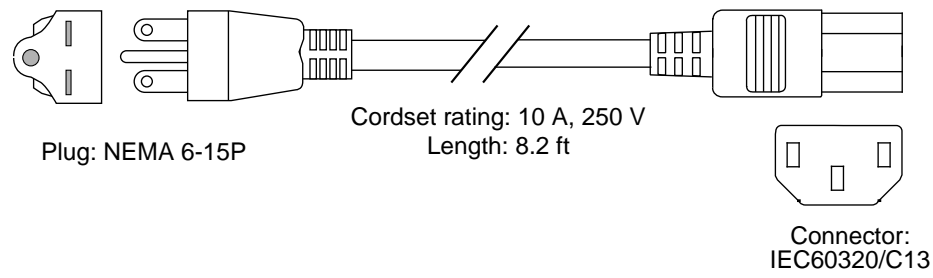
Switzerland

Power Cord—CAB-9K10A-SW

Plug—250 VAC 10 A MP232

Length—8.2 feet / 2.5 meters

Figure 31: CAB-9K10A-SW



186570

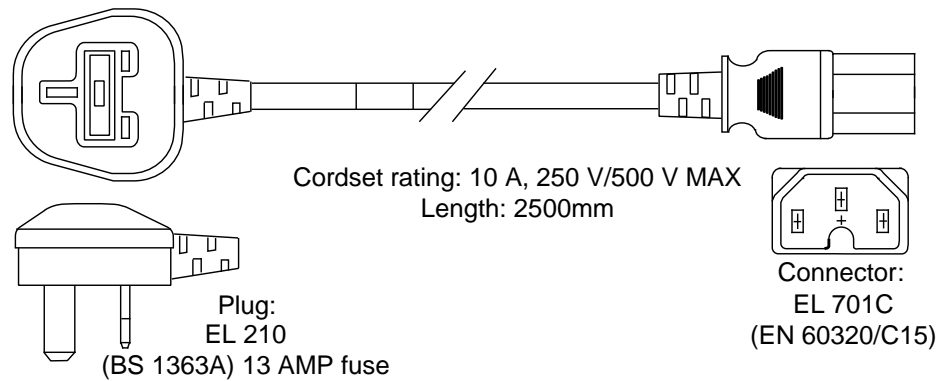
United Kingdom

Power Cord—CAB-9K10A-UK

Plug—250 VAC 10 A BS1363 (13 A fuse)

Length—8.2 feet / 2.5 meters

Figure 32: CAB-9K10A-UK



186580

Cabinet Jumper Power Cord

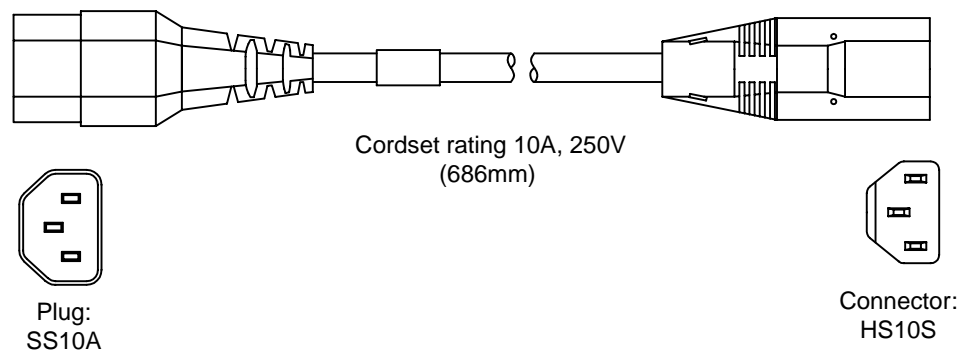
Power Cord—CAB-C13-C14-JMPR

Plug— 250 VAC 13 A, C13-C14 Connectors

Length—2.2 feet / 0.7 meters

The following figure shows the plug connector on the optional jumper power cord for the Cisco UCS 6200 Series Fabric Interconnect. The plug plugs in to the Cisco UCS 6200 Series Fabric Interconnect power supply, while the connector plugs into the receptacle of a power distribution unit for a cabinet.

Figure 33: CAB-C13-C14-JMPR, Jumper Power Cord



186569

Power Supply Configuration Modes

You can configure power modes to either use the combined power provided by the installed power supply units or to provide power redundancy when there is a power outage.

The power supplies are all operated in parallel output. You should connect two separate input sources (grids) to have the highest level of availability (grid redundancy). The system will operate on two power supplies

(2+2 redundancy) for the Cisco UCS 5108 blade server chassis and one power supply (1+1 redundancy) for the Cisco UCS 6100 Series Fabric Interconnect. More detail is at:

- http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/overview.html#wp1245307

Blade Server Chassis and Fabric Interconnect Clearances

You must provide adequate clearance for installing the chassis, replacing modules, and allowing airflow to and from the equipment. The blade server chassis and fabric interconnect require at least 36.0 inches (91.4 cm) of clearance in front to replace a blade or a fabric interconnect. They also require at least 16 inches (40.6 cm) of clearance in back of the equipment to install and replace their components. No side clearance is required because there are no components to replace on the sides of the chassis. No clearance or empty rack units are required between the equipment.

**Note**

If you need more space for the mechanical lift, include the additional space with the clearance for the front of the chassis.

For the blade server chassis and fabric interconnect, the clearances for installation and replacement of components is adequate for the cooling airflow. Side clearance is not needed for installation, replacement, or airflow.

Facility Cooling Requirements

The Cisco UCS components dissipate considerable power and generate considerable heat. The major components require the following heat dissipation:

- Cisco UCS 6120XP Fabric Interconnect dissipates up to 1534 BTUs per hour
- Cisco UCS 6140XP Fabric Interconnect dissipates up to 2561 BTUs per hour
- Cisco UCS 6248 UP Fabric Interconnect dissipates up to 1998 BTUs per hour
- Cisco UCS 6296 UP Fabric Interconnect dissipates up to 3163 BTUs per hour
- Cisco UCS 5108 Blade Server Chassis dissipates up to 1364 BTUs per hour
- Each half width Blade Server dissipates approximately 1350 BTUs per hour
- Each full width Blade Server dissipates approximately 2700 BTUs per hour

Chassis Airflow

The Cisco UCS 5108 chassis and the Cisco UCS Fabric Interconnects each use front-to-back airflow for cooling, and both components are designed to work in a hot-aisle/cold-aisle environment.

Cable management can be an important factor in preventing overheating issues. In the figure below, the "before" illustration shows cables blocking the rear of the chassis, and preventing the fans from exhausting warm air from the chassis. This situation causes failed DIMMs in the blade servers, and seemingly random

server shutdowns when internal temperatures exceed specification. Use cable ties and other wiring practices to keep the rear of the chassis unobstructed as shown in the "after" illustration.

Figure 34: Cable Management

