

Cisco NCS 1020 System Specifications

This chapter describes the system specifications for Cisco NCS 1020.

- Environmental Specifications, on page 1
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Environmental Specifications

The Cisco NCS 1020 has the following environmental specifications:

Table 1: Environmental Specifications for Cisco NCS 1020

Environmental Conditions	Operating Duration	Operating Temperature	Operating Altitude
Operating at high or low temperature	Short term[1]	–5–55° Celsius	1800 m
Normal Operation	Long term (365 days)	5–40° Celsius	1800 m
Fan failure[2]	Short term	5–40° Celsius	1800 m

[1] As per NEBS GR-63-CORE, short term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in one year (This refers to a total of 360 hours in any given year, but not more than 15 occurrences during that one year)

[2]
- In the front fan section, a fan failure means that one of the fans on both fan trays stopped working (5 out of 6 fans are working).
- In the rear fan section, a fan failure means that one of the fans on both fan trays stopped working (1 out of 2 fans are working).

Replace a failed fan tray as per the replacement procedure within the OIR time limits.

Power Specifications

The Cisco NCS 1020 has the following power specifications:

Table 2: DC + DC Redundancy

Nominal input voltage	–48…–60 Vdc
Maximum input current	60 A at –48 Vdc
Input voltage range	–40…–72 Vdc (operating)
Input turn ON voltage	–41…–42 Vdc maximum
Recommended protective device rating	90 A maximum per feed

Table 3: AC + DC Redundancy

Input Low Line (LL) Nominal voltage	100–120 V~
Input High Line (HL) Nominal voltage	200–230 V~
Maximum Input current at 100 V~	16 A
Maximum Input current at 200 V~	14 A
Input frequency rating	50/60 Hz
Input LL voltage range	90–140 V~
Input HL voltage range	180–264 V~
Input frequency range	47–63 Hz (nominal 50/60Hz)
Minimum Input turn ON voltage	85 V~ / 175 V~ (LL/ HL)
Maximum Input turn ON voltage	90 V~ / 180 V~ (LL/ HL)
Recommended protective device (HL)	16 A
Recommended protective device (LL)	20 A

Cable Specifications

The Cisco NCS 1020 has the following cable specifications:

- AC and DC power cables that you have ordered.

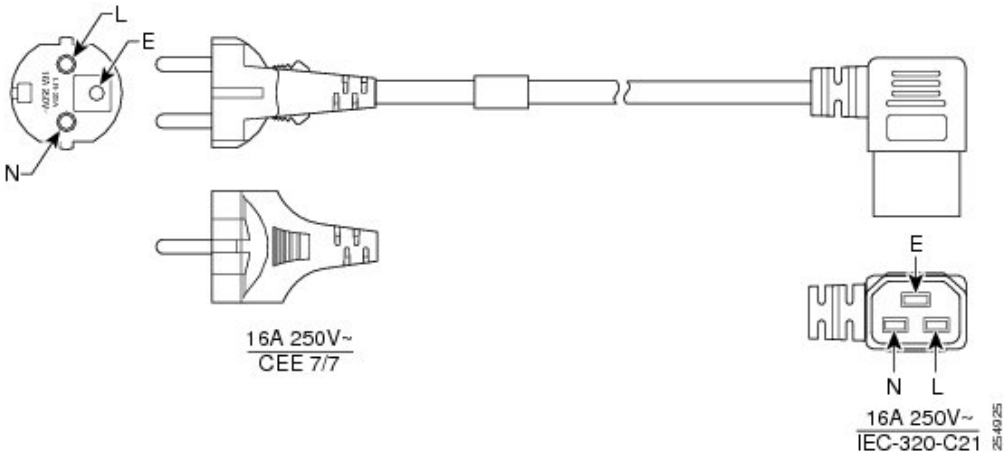
  AC chassis—while ordering for an AC chassis, select the power cable type (straight, 90-degree, or jumper) and P1 connector (NEMA or CEE). Based on your choice, you will get a pair of 90 degree, straight, or jumper cables with NEMA or CEE connector for each PSU.

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Table 4: Power Cables for the AC Chassis

Type of Cable	Voltage	P1 Connector	P2 Connector	PID	Specs	Cable Length (m)
Straight cable	240 V	NEMA L6-20P	IEC 60320 – C21	NCS1K4-AC-PSU-CBL=	16 A, 250 V	4.250
	240 V	CEE 7/7 (Europe)	IEC 60320 – C21	NCS1K4-AC-CBL-EU=	16 A, 250 V	4.250
90-degree cable	240 V	CEE 7/7 (Europe)	IEC 60320 – C21	NCS1K4-AC-CBL-EU=	16 A, 250 V	4.250
	240 V	NEMA L6-20P	IEC 60320 – C21	NCS1K4-AC-PSU-CBL	16 A, 250 V	4.250
Straight jumper	240 V	IEC 60320 – C14	IEC 60320 – C21	NCS1K4-CBL-4.25M=	16 A, 250 V	4.250
	240 V	IEC 60320 – C14	IEC 60320 – C21	NCS1K4-C21-C14-2M=	16 A, 250 V	2
Straight jumper	240 V	IEC 60320 – C20	IEC 60320 – C21	N1K4-C2021-5F-NA=	16 A, 250 V	1.6 (North America)
	240 V	IEC 60320 – C20	IEC 60320 – C21	N1K4-C2021-5F-EU=	16 A, 250 V	1.6 EU)
	240 V	IEC 60320 – C20	IEC 60320 – C21	N1K4-C2021-5F-IN=	16 A, 250 V	1.6 (India)
Straight jumper	240 V	IEC 60320 – C20	IEC 60320 – C21	N1K4-C2021-4M-NA=	16 A, 250 V	4.25 (North America)
	240 V	IEC 60320 – C20	IEC 60320 – C21	N1K4-C2021-4M-EU=	16 A, 250 V	4.25 (EU)
	240 V	IEC 60320 – C20	IEC 60320 – C21	N1K4-C2021-4M-IN=	16 A, 250 V	4.25 (India)

Figure 1: 90-degree Cable (CEE 7/7)



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Figure 2: 90-degree Cable (NEMA L6-20P)

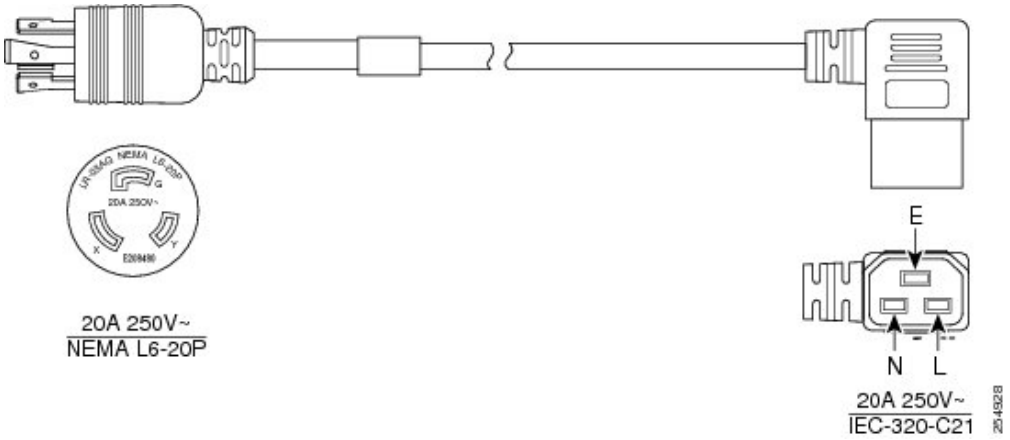


Figure 3: Straight Cable (NEMA L6-20P)

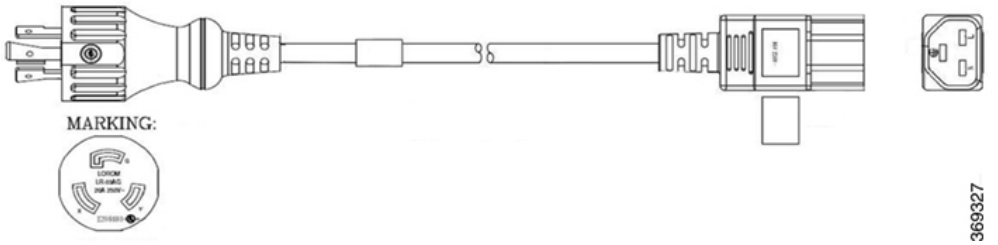
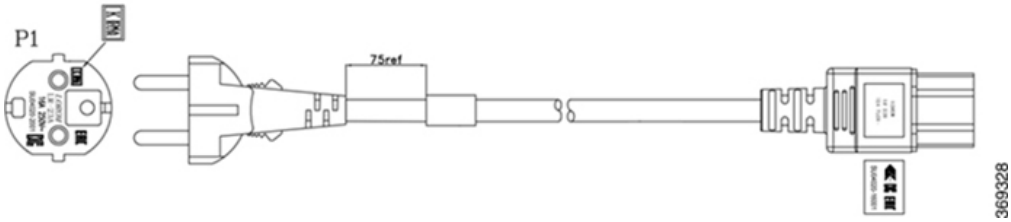


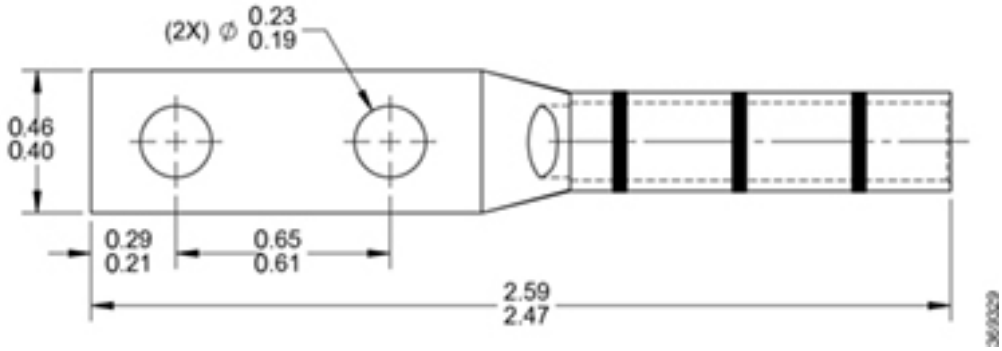
Figure 4: Straight Cable (CEE 7/7)



DC chassis—when you order for a DC chassis, you get four power lugs for each PSU (a pair of 90-degree and a pair of 180-degree lugs). The power lugs are included in the DC PSU package for spare-order. For Assemble-to-order, the power lugs are included in the Accessory kit.

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Figure 5: DC Power Cable Lug (180-degree)



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Figure 6: DC Power Cable Lug (90-degree)

