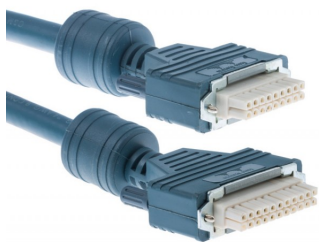


# Cisco CAB-RPSY-2218 Datasheet



Cisco CAB-RPSY-2218 RPS 22/18 Two-to-one DC Power Cable

CAB-RPSY-2218

Cisco CAB-RPSY-2218 RPS 22/18 Two-to-one DC Power Cable

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This chapter describes the equipment required to connect the Cisco RPS to external devices. The Cisco RPS includes two fully redundant AC input power modules and four DC output power modules for connection to external devices. The Cisco RPS supports a quasi-redundant configuration for all devices, fully redundant configuration for the referenced Cisco routers and concentrator, and redundant-with-reboot configurations for the referenced hubs and switches. However, the redundant-with-reboot configuration is not recommended because a power supply failure will cause an interruption while the hub or switch reboots. For an explanation of power source configurations, refer to [Chapter1, “Overview”](#)

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**Caution** The Cisco RPS AC input power modules are power-factor-corrected to comply with certain International Electrotechnical Commission (IEC) standards. Do not connect the Cisco RPS to an uninterruptible power supply (UPS) that has not been tested and designed for power-factor-corrected power systems. Do not connect the Cisco RPS to a ferro-resonant transformer. If you do either of these things, you could damage the Cisco RPS.

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This chapter contains the following sections:

- Tools and Equipment Required
  - Cabling Options
  - Ordering Cables
  - Upgrade Kit with Power Adapter Plate for Routers and Concentrators
- 


You might need to order the following equipment:

- One-to-one 22-pin to 8-pin cable—Needed for Cisco 2500 series routers and Cisco MC3810 multiservice concentrators
  - Y-cable—Needed for fully redundant power configurations
  - Upgrade kit—Needed for routers that originally came with AC or DC power supplies (Cisco 2500 and Cisco 2600 series routers; Cisco 3620, Cisco 3640, and Cisco 3725 routers; Cisco 4000 series routers; and the Cisco MC3810 multiservice concentrator)
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The external devices have different configuration and cabling options outlined below and are discussed in detail under the referenced section of this manual:

- The Cisco 1516M hub (HP 10BASE-T Hub-16M) only supports a one-to-one cable for quasi-redundant configuration. This hub does not support connection of its AC power cable for redundancy with reboot or the use of the Y-cable for full redundancy.
- FastHub 400 series 100BASE-T hubs support:


—  One-to-one cable for quasi-redundancy

—  One-to-one cable with the switch AC power cable connected for redundancy with reboot (not recommended)

Refer to the “Connecting Hubs” section for illustrations and procedures.

- Catalyst 1900 series switches, Catalyst 2820 switches, Catalyst 2900 series XL switches, and Catalyst 3500 series XL switches support:

—  One-to-one cable for quasi-redundancy

—  One-to-one cable with the switch AC power cable connected for redundancy with reboot (not recommended)

See the [“Connecting Switches” section](#) for illustrations and procedures.

- Cisco 2500 and Cisco 2600 series routers; Cisco 3620, Cisco 3640, and Cisco 3725 routers; Cisco 4000 series routers; and the Cisco MC3810 multiservice concentrator support:

—  One-to-one cable for quasi-redundancy

—  Two-to-one Y-cable for full redundancy

Refer to the [“Connecting Routers and the Cisco MC3810 Concentrator” section](#) for illustrations and procedures.

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The Cisco RPS ships in either of the following configurations:

- With cables (Cisco RPS number PWR600-AC-RPS-CAB)—Includes four one-to-one (22-pin to 18-pin) cables for connecting to hubs and switches or for quasi-redundant support for Cisco 2600 series routers; Cisco 3620, Cisco 3640, and Cisco 3725 routers; and Cisco 4000 series routers.
- Without cables (Cisco RPS number PWR600-AC-RPS-NCAB)—Cables must be ordered separately:

- One-to-one (22-pin to 18-pin) cables for connecting to hubs and switches or for quasi-redundant support for Cisco 2600 series routers; Cisco 3620, Cisco 3640, and Cisco 3725 routers; and Cisco 4000 series routers
- One-to-one (22-pin to 8-pin) cables for quasi-redundant support for Cisco 2500 series routers and Cisco MC3810 multiservice concentrators
- Two-to-one Y cables (22-pin to 18-pin, or 22-pin to 8-pin) for fully redundant support for routers or concentrators only

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**Note** The fully redundant configuration is supported only for routers, not for hubs or switches.

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Figure 3-1 and Figure 3-2 show the cables you can order, and Table 3-1 includes cable descriptions and lists the corresponding product order numbers. For ordering information, contact 800 553-6387, 408 526-7208, or [cs-rep@cisco.com](mailto:cs-rep@cisco.com). See also the “[\\$paratext>](#)” section.

Figure 3-1 Two-to-One Y-Shaped Cable

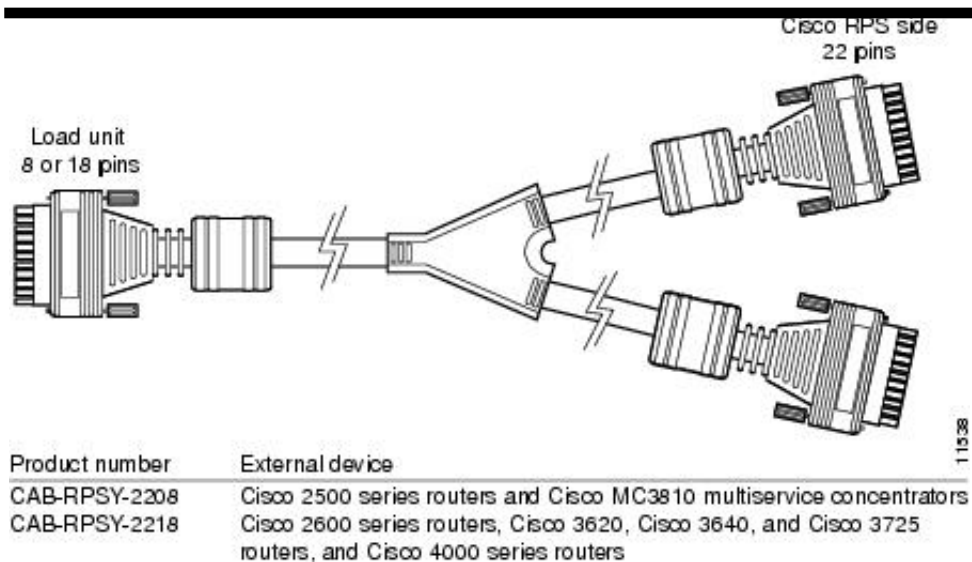


Figure 3-2 One-to-One Cable

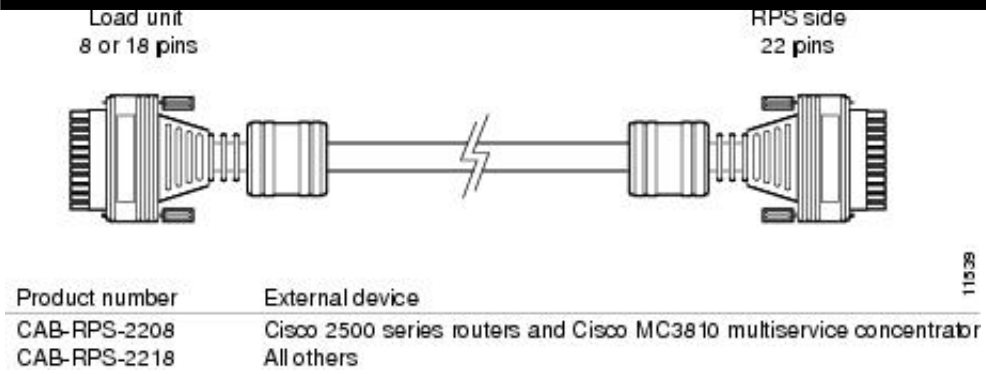


Table 3-1 Cable Order Numbers

Redundancy Configuration For Use With Cable Description Cable Order Number

Quasi-redundant

Cisco 1516M hub (HP 10BASE-T Hub-16M), FastHub 400 series hubs, Catalyst 1900 series and Catalyst 2820 switches, Catalyst 2900 series and Catalyst 3500 series XL switches, Cisco 2600 series routers, Cisco 3620, Cisco 3640, and Cisco 3725 routers, and Cisco 4000 series routers

One-to-one cable, 22-pin to 18-pin,  
4 ft (1.22 m)<sub>1</sub>

CAB-RPS-2218=

Cisco 2500 series routers and access servers and Cisco MC3810 multiservice concentrators

One-to-one cable, 22-pin to 8-pin,  
4 ft (1.22 m)<sub>1</sub>

CAB-RPS-2208=

Fully redundant

Cisco 2600 series routers, Cisco 3620, Cisco 3640, and Cisco 3725 routers, and Cisco 4000 series routers

Two-to-one cable, 22-pin to 18-pin,  
4 ft (1.22 m)1

CAB-RPSY-2218=

Cisco 2500 series routers and access servers and Cisco MC3810 multiservice concentrators

Two-to-one cable, 22-pin to 8-pin,  
4 ft (1.22 m)1

CAB-RPSY-2208=

Redundant with  
reboot2

FastHub 400 series hubs, Catalyst 1900 series and Catalyst 2820 switches, and Catalyst 2900 series and Catalyst 3500 series XL switches

One-to-one cable, 22-pin to 18-pin,  
4 ft (1.22 m)1

CAB-RPS-2218=

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External devices operated with the Cisco RPS must have a Cisco RPS connector. Cisco 2600 series

routers, Cisco 3620, Cisco 3640, and Cisco 3725 routers, and Cisco 4000 series routers, and the Cisco MC3810 concentrator do not automatically ship with an RPS connector.

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**Note** The FastHub 400 series hubs, Cisco 1516M hub (HP 10ASE-T Hub-16M), Catalyst 1900 series and Catalyst 2820 switches, and Catalyst 2900 series and Catalyst 3500 series XL switches ship with an RPS connector and do not require a power adapter plate.

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If you did not order your router or concentrator with a Cisco RPS connector installed, you must order a power adapter plate that provides compatibility and must install the plate in place of your existing power supply.

If you need to order a power adapter plate for your router or concentrator, see [Table 3-2](#), which lists adapter plates and corresponding product order numbers. Contact Cisco Customer Service at 800 553-6387, 408 526-7208, or [cs-rep@cisco.com](mailto:cs-rep@cisco.com) for ordering information. (See also the [“\\$paratext>” section](#).)

Table 3-2 Power Adapter Plate Product Numbers

Description	Product Number
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Cisco 2500 series, Cisco MC3810 adapter plate	
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ACS-2500RPS=	
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Cisco 2600 series adapter plate	
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ACS-2600RPS=	
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Cisco 3620 adapter plate	
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ACS-3620RPS=

Cisco 3640 adapter plate

ACS-3640RPS=

Cisco 3725 adapter plate

ACS-3725RPS=

Cisco 4000 series adapter plate

ACS-4000RPS=

Device-specific instructions for installing the RPS adapter plate are shipped with the plate and are also available on Cisco.com at <http://www.cisco.com>.

[Buy Now](#)