



Cable and Port Specifications

This appendix includes the cables and connectors used with the Cisco MDS 9396S Multilayer Fabric Switch.



Caution We strongly recommend that power cable runs and other potential noise sources be located as far away as practical from network cabling that terminates on Cisco equipment. In situations where long parallel cable runs exist but cannot be separated by at least 3.3 ft. (1 m), we recommend that you shield these potential noise sources. To avoid interference, the source should be shielded by housing it in a grounded metallic conduit.

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Cables and Adapters

The Cisco MDS 9396S Switch accessory kit includes the following:

- RJ-45 to RJ-45 rollover cable
- RJ-45 to DB-9 female DTE adapter (labeled “Terminal”)
- RJ-45 to DB-25 female DTE adapter (labeled “Terminal”)
- RJ-45 to DB-25 male DCE adapter (labeled “Modem”)



Note Additional cables and adapters can be ordered from your customer service representative.



Note If you purchased this product through a Cisco reseller, contact the reseller directly for technical support. If you purchased this product directly from Cisco, contact Cisco Technical Support at this URL: <http://www.cisco.com/c/en/us/support/index.html>.

Console Port

The console port is an asynchronous RS-232 serial port with an RJ-45 connector. You can use the RJ-45 to RJ-45 rollover cable and the RJ-45 to DB-9 female adapter or the RJ-45 to DB-25 female DTE adapter (depending on your computer serial port) to connect the console port to a computer running terminal emulation software.

Console Port Pinouts

The following table lists the pinouts for the console port on the Cisco MDS 9396S Switch.

Table 1: Console Port Pinouts

Pin	Signal
1 ¹	RTS
2	DTR
3	TxD
4	GND
5	GND
6	RxD
7	DSR
8	CTS

1. Pin 1 is connected internally to pin 8.

Connecting the Console Port to a Computer Using the DB-25 Adapter

You can use the RJ-45 to RJ-45 rollover cable and RJ-45 to DB-25 female DTE adapter (labeled “Terminal”) to connect the console port to a computer running terminal emulation software. The following table lists the pinouts for the console port, the RJ-45 to RJ-45 rollover cable, and the RJ-45 to DB-25 female DTE adapter.

Table 2: Port Mode Signaling and Pinouts with DB-25 Adapter

Console Port	RJ-45 to RJ-45 Rollover Cable		RJ-45 to DB-25 Terminal Adapter	Console Device
Signal	RJ-45 Pin	RJ-45 Pin	DB-25 Pin	Signal
RTS	1	8	5	CTS
DTR	2	7	6	DSR
TxD	3	6	3	RxD

Console Port	RJ-45 to RJ-45 Rollover Cable		RJ-45 to DB-25 Terminal Adapter	Console Device
GND	4	5	7	GND
GND	5	4	7	GND
RxD	6	3	2	TxD
DSR	7	2	20	DTR
CTS	8	1	4	RTS

Connecting the Console Port to a Computer Using the DB-9 Adapter

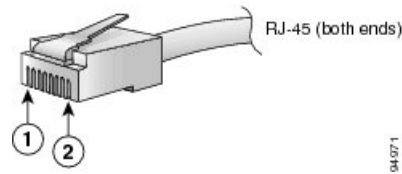
You can use the RJ-45 to RJ-45 rollover cable and RJ-45 to DB-9 female DTE adapter (labeled “Terminal”) to connect the console port to a computer running terminal emulation software. The following table lists the pinouts for the console port, the RJ-45 to RJ-45 rollover cable, and the RJ-45 to DB-9 female DTE adapter.

Table 3: Port Mode Signaling and Pinouts with DB-9 Adapter

Console Port	RJ-45 to RJ-45 Rollover Cable		RJ-45 to DB-9 Terminal Adapter	Console Device
Signal	RJ-45 Pin	RJ-45 Pin	DB-9 Pin	Signal
RTS	1	8	8	CTS
DTR	2	7	6	DSR
TxD	3	6	2	RxD
GND	4	5	5	GND
GND	5	4	5	GND
RxD	6	3	3	TxD
DSR	7	2	4	DTR
CTS	8	1	7	RTS

MGMT 10/100/1000 Ethernet Port

Use a modular, RJ-45, straight-through UTP cable to connect the 10/100/1000 management Ethernet port to external hubs and switches. To connect to a router, use a crossover cable.

Figure 1: RJ-45 Interface Cable Connector

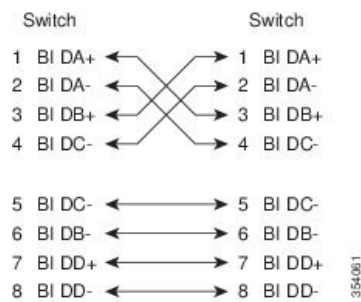
1	Pin 1	2	Pin 8
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The following table lists the connector pinouts and signal names for a 10/100/1000BASE-T management port (MDI) cable.

Table 4: 10/100/1000BASE-T Management Port Cable Pinout

Pin	Signal
1	BI DA+
2	BI DA-
3	BI DB+
4	BI DC+
5	BI DC-
6	BI DB-
7	BI DD+
8	BI DD-

The following figure shows a schematic of the 10/100/1000BASE-T cable.

Figure 2: Twisted-Pair 10/100/1000BASE-T Cable Schematic

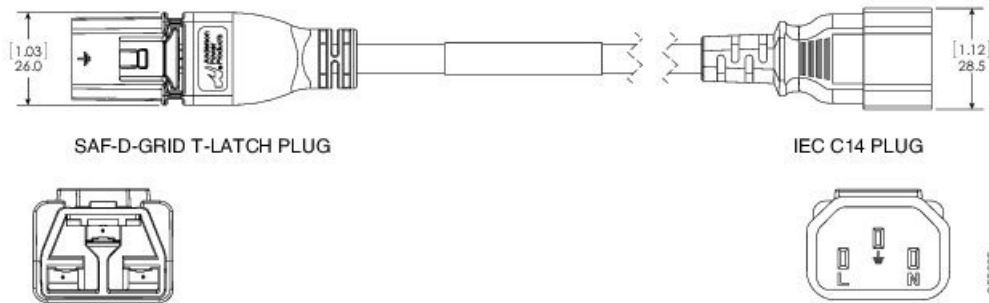
The following table lists the connector pinouts and signal names for a 10/100BASE-T management port (MDI) cable.



- Note**
- Only the standard power cords or jumper power cords provided with the switch are supported.
 - 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 non-compatible power cord with this product may result in electrical safety hazard. Orders delivered to Argentina, Brazil, and Japan must have the appropriate power cord ordered with the system.

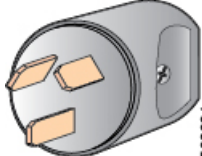
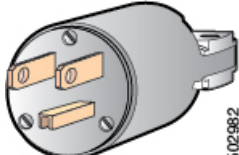
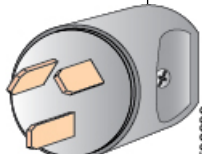
The following figure shows the power cord used with the 3.5-kW HVDC/HVAC Power Supply Unit:

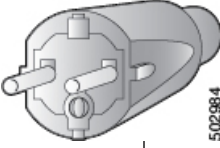
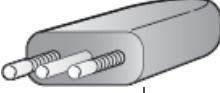
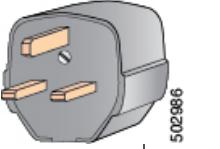
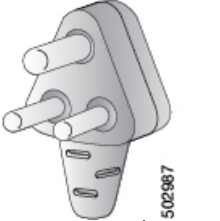

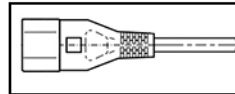
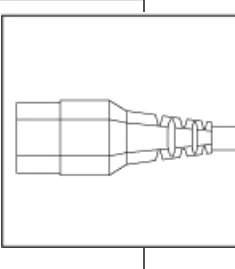
Figure 4: CAB-HVAC-C14-2M Power Cord and Plugs for the 3.5-kW HVDC/HVAC Power Supply Unit



The following table lists the supported power cords and power plugs for the Cisco MDS 9396S switch:

Table 6: Supported Power Cords and Power Plugs for the Cisco MDS 9396S Switch

Locale	Power Cord Part Number	Source Plug Type	Cordset Rating	Length		Power Plug Reference Illustration
				Feet	Meters	
Argentina	CAB-9K10A-AR	IRAM 2073 plug (10 A)	10 A, 250 V	8.2	2.5	 502981
North America	CAB-9K12A-NA	NEMA 5-15P plug (15 A)	15 A, 125 V	8.2	2.5	 502982
Australia and New Zealand	CAB-9K10A-AU	SAA/3 plug, AS/NZS 3112-1993 (10 A)	10 A, 250 V	8.2	2.5	 502983

Locale	Power Cord Part Number	Source Plug Type	Cordset Rating	Length		Power Plug Reference Illustration
				Feet	Meters	
Europe	CAB-9K10A-EU	VIIG Plug, CEE (7) VII (16 A)	10 A, 250 V	8.2	2.5	 502984
Italy	CAB-9K10A-IT	1/3G plug, CEI 23-16 (10 A)	10 A, 250 V	8.2	2.5	 502985
United Kingdom	CAB-9K10A-UK	BS89/13, BS 1363/A (13 A; replaceable fuse)	10 A, 250 V	8.2	2.5	 502986
South Africa	CAB-9K10A-SA	EL 208, SABS 164-1 (10 A)	10 A, 250 V	5.12	1.82	 502987
Switzerland	CAB-9K10A-SW	12G SEV 1011 (10 A)	10 A, 250 V	8.2	2.5	 502988
Japan	CAB-C15-CBN-JP	C14-C15	12 A, 250 VAC	10	3.05 m	
Cabinet Jumper Power Cord	CAB-C15-CBN	C14-C15 Connectors	13A, 250 VAC	4	1.22	

Jumper Power Cord

The following figure shows the C14 and C15 connectors on the optional jumper power cord for the Cisco MDS 9396S Switch. The C15 connector connects into the C14 inlet on the Cisco MDS 9396S Switch power supply, while the C14 connector connects into the C13 receptacle of a power distribution unit for a cabinet.

Figure 5: Connectors on Jumper Power Cord for Cisco MDS 9396S Switch

