



APPENDIX **C**

Cable and Port Specifications

This appendix includes the cables and connectors used with the Cisco MDS 9100 Series Fixed Configuration Fabric Switch, and it includes the following sections:

- [Cables and Adapters, page C-1](#)
- [Console Port, page C-2](#)
- [MGMT 10/100 Ethernet Port, page C-3](#)
- [Supported Power Cords and Plugs, page C-4](#)



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.

Cables and Adapters

The Cisco MDS 9100 Series 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/techsupport>.

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

[Table C-1](#) lists the pinouts for the console port on the Cisco MDS 9100 Series.

Table C-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. [Table C-2](#) 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 C-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
GND	4	5	7	GND
GND	5	4	7	GND
RxD	6	3	2	TxD

Table C-2 Port Mode Signaling and Pinouts with DB-25 Adapter (continued)

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
DSR	7	2	20	DTR
CTS	8	1	4	RTS

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

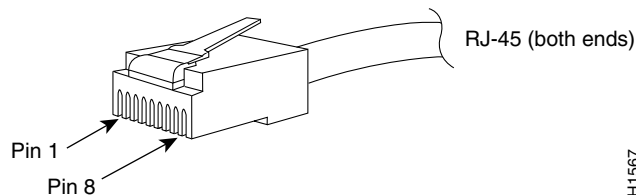
You can use the RJ-45 to RJ-45 rollover cable and RJ-45 to DB-9 female DTE adapter (labeled “Terminal”) to connect the console port to a computer running terminal emulation software. [Table C-3](#) lists the pinouts for the console port, the RJ-45 to RJ-45 rollover cable, and the RJ-45 to DB-9 female DTE adapter.

Table C-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 Pins	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 Ethernet Port

Use a modular, RJ-45, straight-through UTP cable to connect the 10/100 management Ethernet port to external hubs and switches. To connect to a router, use a crossover cable. (See [Figure C-1](#).)

Figure C-1 RJ-45 Interface Cable Connector

H1567

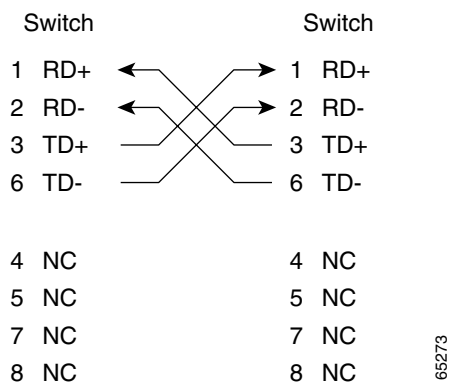
Table C-4 lists the connector pinouts and signal names for a 10/100BASE-T management port (MDI) cable.

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

Pin	Signal
1	TD+
2	TD-
3	RD+
6	RD-
4	Not used
5	Not used
7	Not used
8	Not used

Figure C-2 shows a schematic of the 10/100BASE-T cable.

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



Supported Power Cords and Plugs

A separate power cord is provided for each power supply. 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 option instead of the standard power cords.

Power Cords

The standard power cords have an IEC C15 connector on the end that plugs into the switch. The optional jumper power cords have an IEC C15 connector on the end that plugs into the switch, and an IEC C14 connector on the end that plugs into an IEC C13 outlet receptacle.

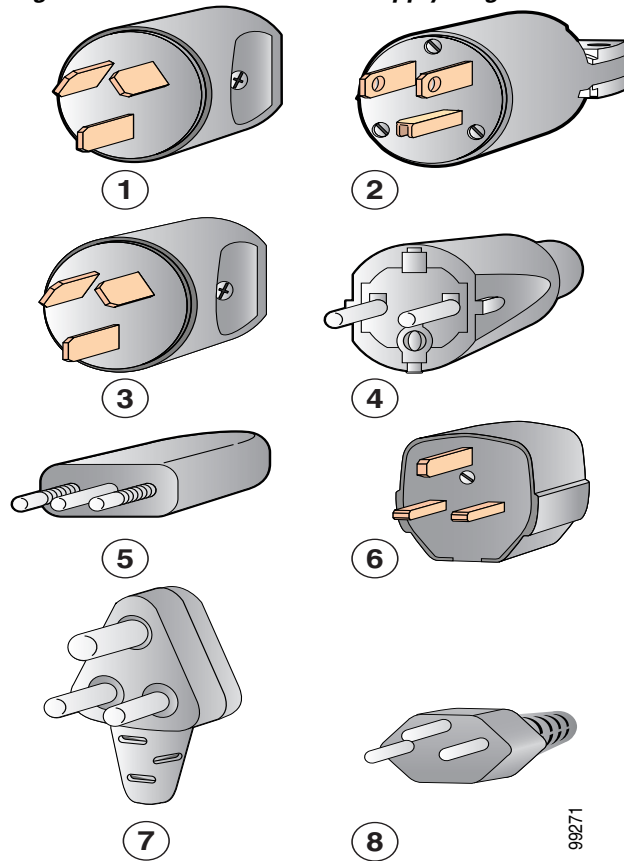


Note

Only the standard power cords or jumper power cords provided with the switch are supported.

Figure C-3 shows the supported plugs for the Cisco MDS 9100 Series power supplies.

Figure C-3 300-W Power Supply Plugs



1	Argentina, IRAM 2073 plug (10 A)	5	Italy 1/3G plug, CEI 23-16 (10 A)
2	North America NEMA 5-15P plug (15 A)	6	United Kingdom BS89/13, BS 1363/A (13 A; replaceable fuse)
3	Australia, New Zealand SAA/3 plug, AS/NZS 3112-1993 (10 A)	7	South Africa EL 208, SABS 164-1 (10 A)
4	Europe VIIG Plug, CEE (7) VII (16 A)	8	Switzerland 12G SEV 1011 (10 A)

Jumper Power Cord

Figure C-4 shows the C14 and C15 connectors on the optional jumper power cord for the Cisco MDS 9100 Series switch. The C15 connector connects into the C14 inlet on the Cisco MDS 9100 Series power supply, while the C14 connector connects into the C13 receptacle of a power distribution unit for a cabinet.

Figure C-4 Connectors on Jumper Power Cord for Cisco MDS 9100 Series

