

APPENDIX

Cable Pinouts

This appendix describes pinout information, and includes the following sections:

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10/100/1000BaseT Ports

The adaptive security appliance supports 10/100/1000BaseT ports. You must use at least a Category 5 cable for 100/1000baseT operations, but a Category 3 cable can be used for 10BaseT operations.

The 10/100/1000BaseT ports use standard RJ-45 connectors and supports MDI and MDI-X connectors. Ethernet ports normally use MDI connectors and Ethernet ports on a hub normally use an MDI-X connector.

Use an Ethernet straight-through cable to connect an MDI to an MDI-X port. Use a cross-over cable to connect an MDI to an MDI port, or an MDI-X to an MDI-X port.

Figure 1-1 shows the 10BaseT and the 100BaseTX connector (RJ-45).

Figure 1-1 10/100 Port Pinouts

Pin	Label	1 2 3 4 5 6 7 8
1	RD+	
2	RD-	
3	TD+	
4	NC	
5	NC	
6	TD-	
7	NC	
8	NC	

Pin	Label	1 2 3 4 5 6 7 8
1 2 3 4 5 6 7 8	TP0+ TP0- TP1+ TP2+ TP2- TP1- TP3+ TP3-	

Figure 1-2 shows the 10BaseT, 100BaseTX, and 1000BASE-T connector (RJ-45).

Figure 1-2 10/100/1000 Port Pinouts

Console Port (RJ-45)

Cisco products use the following types of RJ-45 cables:

- Straight-through
- Crossover



Cisco does not provide these cables; they are widely available from other sources.

Figure 1-3 shows the RJ 45 cable.

Figure 1-3



RJ-45 Cable

To identify the RJ-45 cable type, hold the two ends of the cable next to each other so that you can see the colored wires inside the ends, as shown in Figure 1-4.

Figure 1-4 RJ-45 Cable Identification



Examine the sequence of colored wires to determine the type of RJ-45 cable, as follows:

- Straight-through—The colored wires are in the same sequence at both ends of the cable.
- Crossover—The first (far left) colored wire at one end of the cable is the third colored wire at the other end of the cable.

Table 1-1 lists the rolled (console) cable pinouts for RJ-45.

 Table 1-1
 RJ-45 Rolled (Console) Cable Pinouts

Signal	Pin	Pin	Pin
-	1	8	-
-	2	7	-
-	3	6	-
-	4	5	-
-	5	4	-
-	6	3	-
-	7	2	-
-	8	1	-

Console RJ-45 to DB-9 Adapter

Table 1-2 lists the cable pinouts for RJ-45 to DB-9 or DB-25.

Table 1-2Cable Pinouts for RJ-45 to DB-9 or DB-25

Signal	RJ-45 Pin	DB-9 Pin
RTS	8	8
DTR	7	6
TxD	6	2
GND	5	5
GND	4	5
RxD	3	3
DSR	2	4
CTS	1	7

MGMT 10/100 Fast Ethernet Port

The MGMT 10/100 Fast Ethernet port has an RJ-45 connector. You can use a modular, RJ-45, straight-through UTP cable to connect the management port to an external hub, switch, or router.

Table 1-3 lists the cable pinouts for 10/100BASE-T Management Port Cable Pinouts (MDI).

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

SFP Fiber Ports

Table 1-4 lists the types of SFP modules and connectors used in the adaptive security appliance.

 Table 1-4
 Types of SFP Modules and Connectors

Port	Compliance	Connector	Fiber Type
Gigabit Ethernet	1000BASE-SX	SW	MMF
	1000BASE-LX	LW	SMF

Table 1-5 lists the SFP port cabling specifications for the SFP modules and connectors used in the adaptive security appliance.

Cisco Product Number	Wavelength (nanometer)	Core Size (micron)	Baud Rate	Cable Distance
GLC-SX-MM=	850	62.5	1.0625	300 m
		50.0	1.0625	500 m
GLC-LH-SM=	1300	9.0	1.0625	10 km