APPENDIX 5

Cable Pinouts

This appendix describes the ASA 5585-X Ethernet, management, console, and auxiliary ports, and includes the following sections:

ASA 5585-X Cables

The ASA 5585-X uses the following cables:

- For the Ethernet ports, you can use either straight-through or cross-over twisted-pair cables since all RJ-45 Ethernet ports support MDI/MDIX.

> **Note** Auto-MDI/MDIX refers to the ability of the PHY associated with a given port to sense and automatically switch (if required) the transmit and receive signaling across a twisted-pair RJ-45 cable, thereby eliminating the need for special (for example, cross-over) cables based on the connecting port.

- The management ports are 10/100/1000 Mbps-capable; you can also use either straight-through or cross-over twisted-pair cables since the ports also support MDI/MDIX.

- The console and auxiliary ports are serial ports and require the use of a flat rollover cable for terminal server connectivity (and a DB9 connector for connection to a PC).

RJ-45 Ethernet Ports

The ASA 5585-X supports 10/100/1000BaseT ports. You must use at least a Category 5 cable for 100/1000Base-TX operations. You can use a Category 3 cable for 10Base-TX operations.

Figure 5-1 shows the 10/100BaseT (RJ-45) port pinouts.

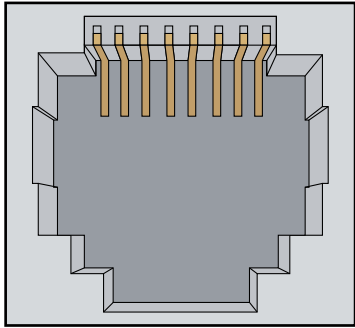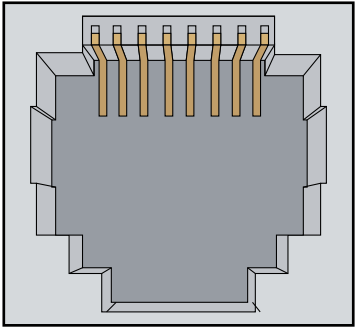**Figure 5-1   10/100 Port Pinouts**

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

Figure 5-2 shows the 10/100/1000BaseT (RJ-45) port pinouts.

Figure 5-2   10/100/1000 Port Pinouts
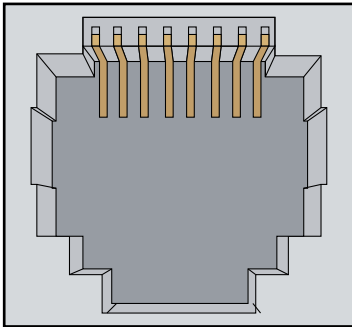
Pin	Label	1 2 3 4 5 6 7 8
1	TP0+	
2	TP0-	
3	TP1+	
4	TP2+	
5	TP2-	
6	TP1-	
7	TP3+	
8	TP3-	

Management 10/100/1000 Ethernet Port

The management port is a 10/100/1000-Mbps Ethernet port with 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.

Figure 5-3 lists the cable pinouts for 10/100/1000BASE-T management port cable pinouts (MDI/MDIX).

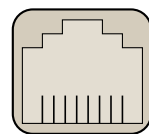*Figure 5-3   10/100/1000 BASE-T Management Port Cable Pinouts (MDI/MDIX)*

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

Console and Auxiliary Ports (RJ-45)
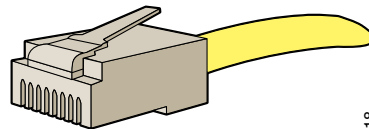
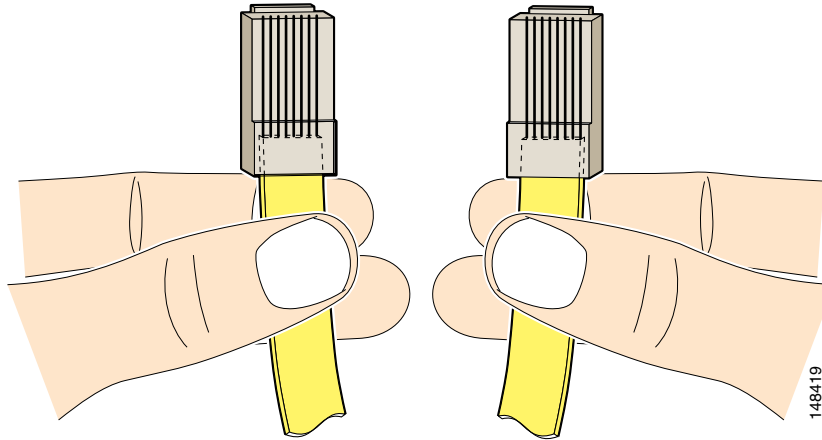Figure 5-4 shows the RJ 45 cable.

Figure 5-4   RJ-45 Cable

87654321

RJ-45 connector

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 5-5.

Figure 5-5   *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.
- Cross-over—The first (far left) colored wire at one end of the cable is the third colored wire at the other end of the cable.
- Roll-over—The colored wires are in the opposite sequence at either end of the cable.

Table 5-1 lists the roll-over (console) cable pinouts for RJ-45.

Table 5-1   *RJ-45 Roll-Over (Console) Cable Pinouts*

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

DB9 Connector

Table 5-2 lists the cable pinouts for RJ-45 to DB-9.

Table 5-2   Cable Pinouts for RJ-45 to DB-9

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

■ **DB9 Connector**