Figure 3.2: Basic Spectrum 430 IP System Wiring
Single Station Wiring

Figure 3.3: Spectrum 430 Single Station to Exchange Wiring & 430, 430 IP Station to Exchange via Fiber Optic Line
IP Single Station Wiring

Figure 3.4: Spectrum 430 IP Single Station to Exchange Wiring
IP Multiple Station Wiring

Central Exchange to Station Hub(s) via Fiber Optic Line for Multiple Stations

4550 Central Exchange

Network Switch

Ethernet Fiber Optic Transceiver
See Note 1

Up To 23mi. Single Fiber Line

Ethernet Fiber Optic Transceiver
See Note 1

4558 Station Hub

Typical Series 4300 Station

Additional Stations

Notes:
1. Ethernet Fiber Optic Transceiver, International Fiber Systems Series DE7200

Figure 3.5: Spectrum 430 IP Central Exchange to Multiple Station Wiring
Figure 3.7: Spectrum 430 IP Exchange to Exchange Wiring
Figure 3.9: Spectrum 430 & 430 IP Exchange to Exchange Connection via LAN Switch and Cat. 9754 Modem to Ethernet Interface

Main Exchange to Slave Exchange via LAN Switch and Cat. 9754 Modem to Ethernet Interface
NOTES:
1. Twisted pair wiring to digital line stations is non-polar. The pair may be connected in any order.
2. Twisted pair shielded wire is used to connect to analog stations.
3. Use a CAT-5/5e/6 cable to connect the 4550 and the 455(x) to the Network Switch. Distance between the devices should not exceed 100 meters (328 feet).
4. Three station hubs may be associated with Port J2 and Port J3 each, on the Central Exchange.
5. See Table in Wiring section for cabling requirements.

5. See Table in Wiring section for cabling requirements.

Figure 3.10: 4550 IP Central Exchange to 4558 Digital Station Hub

1. Twisted pair wiring to digital line stations is non-polar. The pair may be connected in any order.
2. Twisted pair shielded wire is used to connect to analog stations.
3. Use a CAT-5/5e/6 cable to connect the 4550 and the 455(x) to the Network Switch. Distance between the devices should not exceed 100 meters (328 feet).
4. Three station hubs may be associated with Port J2 and Port J3 each, on the Central Exchange.
5. See Table in Wiring section for cabling requirements.
Cat. 4365/Cat. 5265 to IP Station Hub Wiring

Figure 3.13: Spectrum 430 IP 4365 Admin Master & 5265 Direct Select Console Wiring
Figure 3.16: Spectrum 430/430 IP 4355 Network Hub to 4350 Digital Switch/4550 IP Central Exchange Wiring
Cat. 4355 Network Hub Block Diagram

Figure 3.17: Spectrum 430/430 IP 4355 Network Hub to 4350 Digital Switch/4550 IP Central Exchange Block Diagram
Two-Network Hub System

Figure 3.18: Spectrum 430/430 IP Detailed Wiring for Two-Network Hub System
Figure 3.20: Spectrum 430/430 IP Detailed Wiring for 4356 Analog Line Card/4556 Analog Station Hub
Cat. 5210 Call Switch to External Speaker with 25V Transformer

Figure 3.21: Spectrum 430/430 IP Cat. 5210 Call Switch to External Speaker with 25V Transformer
Figure 3.22: Spectrum 430/430 IP Detailed Wiring for 4320/4365 to 4358 Digital Line Card/4558 Digital Station Hub
Cat. 4316/Cat. 4326 Wiring

Figure 3.23: Spectrum 430/430 IP Detailed Wiring for 4316 and 4326 Stations
Caller ID Interface

![Diagram of Caller ID Interface Wiring]

**Figure 3.24: Spectrum 430/430 IP Cat. 4360 Caller ID Interface Wiring**

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Audio Control Interface

Figure 3.26: Spectrum 430/430 IP Detailed Wiring for Cat. 4335 Audio Control Interface
Cat. 4327 Elevator Substation

Figure 3.27: Spectrum 430/430 IP Elevator Car Substation
Figure 3.28: Spectrum 430 IP System Capacity

Note: 4550 with Cat. 4552