

Approved by CC:

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From: Louis Felty [mailto:louis@afireandsecurity.com]
Sent: Thursday, January 17, 2013 10:59 AM
To: Tom Pardi
Subject: Fire Control Phone Lines

Tom,
Milton called about this. Here is the information on the needed two phone lines.

Phone Lines

NFPA72, 2002 states the following in section 8.5.3.2 concerning Digital Alarm Communication Systems:

“A DACT shall be connected to the public switched telephone network upstream of any private telephone system at the protected premises”, and to include the following

- a. Two different telephone numbers
- b. loop start lines only, and shall not be ground start
- c. both lines will be tested every 24 hours
- d. able to disconnect any incoming and outgoing telephone calls
- e. prevent outgoing calls until transmission is completed

Two phone lines “POTS” must be connected to the fire control for monitoring. POTS lines mean when you pick up the phone you hear a dial tone, and DO NOT have to hit the #9 key. These lines do not have to be dedicated for fire alarm monitoring service. They must be routed as follows: from the outside line pole, to inside the building on a punch down block a M66, then routed directly to the fire control.

Example:

You use 1-Cat 5,5e,6 4-pair cable

Use the blue and green pairs for the two lines from the M66 to the Fire Control

Use the green and brown pairs to carry the two phone lines back to the M66

These lines can then be routed back to the M66 block for routing to another phone, fax, security, etc.

The essential requirement is that no other equipment be connected to these lines between the fire control and the outside pole. This includes any type of phone system. The reason for this is so that if there is a fire the fire control can disconnect any phone service downstream of the communicator in the panel, seize the phone line, and transmit an alarm signal.

The fire control monitors these two phone lines, and if there is any phone line signal loss, the fire control will both sound and show a trouble on the LCD display, and transmit a telco fail signal to the monitoring center. Call if you have any other questions.

Louis

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