

Hamilton, Eric

From: Wright, David
Sent: Wednesday, December 22, 2004 10:53 AM
To: Hamilton, Eric
Subject: FW: Phy layer

FYI

-----Original Message-----

From: Smith, Robert F.
Sent: Tuesday, December 21, 2004 3:39 PM
To: Wright, David
Cc: Lyon, Thomas
Subject: Phy layer

The so-called Philips/Bosch interface utilized is a simple Manchester encoded serial interface. The line impedance utilized is 120 ohms differential at a level of 2.3V p-p into a terminated 120 ohm line. The specification claims useful distances of 5000' utilizing 18AWG wire. I designed a very simple comparator (LM339 with approx. 1% hysteresis) circuit and successfully received the output signal from each of the three devices Pelco utilizes as transmitters (so-called A K and M) through 7000' of 24AWG twisted pair wire (CAT5). We do not have BERT equipment, but from oscilloscope the error rate appears low probably $\ll 1$ in 1000. What else would you desire to do with this?

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