Liteway, Inc.

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The Use of Terminating Resistors with Liteway, Inc. Analog and Digital Fiber Optic Transmission Systems

In order to achieve maximum performance with various analog and digital fiber optic transmission systems manufactured by Liteway Inc., the electrical input and output ports should be terminated properly to prevent reflections and/or possible distortion of the analog or digital signals. According to conventional practices these terminating resistors should be installed at the end of a transmission line, as far away from the source as possible. Specific details per model are as follows:

DX-7001 Universal Data Transmission System

In the RS-422 or RS-485 modes, the DX-7001 contains integral 120 ohm termination resistors. The input to the DX-7001 is on Signal terminal block pins 4 and 5 and DIP switch 9 can be used to connect a 120 ohm resistor directly across these pins when turned ON. The output of the DX-7001 is on Signal terminal block pins 1 and 2. Normally the equipment being driven by the DX-7001 will have its own terminating resistors but in the event that it does not, DIP switch 10 can be used to connect a 120 ohm resistor across these pins when desired.

VT-1001, VR-1001 Video Transmission System

The VT-1001 Transmitter has an internal 75 ohm termination and does not require any additional terminating resistor. The VR-1001 is designed to drive a 75 ohm load directly.

VT-1301, VR-1301 Video Transmission System

The VT-1301 Transmitter has an internal 75 ohm termination and does not require any additional terminating resistor. The VR-1301 is designed to drive a 75 ohm load directly.