

Architectural Specification for the Intelix AVO-V1A2 Video and Audio Balun

The unit shall be a rack-mountable balun which transmits a composite video signal and two analog audio signals over standard unshielded twisted pair structured cabling, such as Cat 5. The maximum distance of the unit shall be 2,200 feet. The maximum input of the unit shall be 1.1 Vp-p. The video bandwidth shall be DC to 8 MHz. The audio bandwidth shall be 20 Hz to 20 kHz. The video impedance shall be 75 ohms. The audio impedance shall be 600 ohms minimum. The insertion loss shall be less than 2 dB over the frequency range. The return loss shall be greater than 15 dB over the frequency range. The common mode rejection shall be greater than 40 dB over the frequency range. The RJ45 pinout shall be pins 7 and 8 (pair 4) for the video channel. The RJ45 pinout shall be pins 1 and 2 (pair 2) for audio channel 1 and pins 3 and 6 (pair 3) for audio channel 2. The unit shall be an Intelix AVO-V1A2 video and audio balun.