

Architectural Specification for the Intelix VGA-SR-F Baluns

The unit shall be a set of baluns that passively transmits VGA video over standard unshielded twisted pair cabling, such as Cat 5 or Cat 6. The maximum distance at VGA (640 x 480) resolution shall be 450 feet. The maximum distance at SVGA (800 x 600) resolution shall be 350 feet. The maximum distance at XGA (1024 x 768) resolution shall be 250 feet. The maximum distance at SXGA (1280 x 1024) resolution shall be 200 feet. The 3 dB bandwidth shall be DC to 60 MHz. The video input shall be 1.1 Vp-p. The input signal for the sync shall be TTL standard and 300 kHz maximum bandwidth. The insertion loss shall be less than 3 dB per pair over the frequency range. The return loss shall be -15 dB maximum from DC to 60 MHz. The common mode rejection for 15 kHz shall be -60 db maximum. The common mode rejection for 100 kHz to 10 MHz shall be -40 dB maximum. The common mode rejection for 100 MHz shall be -20 dB maximum. The impedance for the input shall be 75 ohms. The impedance for the output shall be 100 ohms. The connectors for sending shall be one DB15 plug with 6" lead to one shielded RJ45. The connectors for receiving shall be one DB15 plug to one shielded RJ45. The pin configuration shall be pins 1 & 2 for the red (balanced) channel, pins 4 & 5 for the green (balanced) channel, pins 7 & 8 for the blue (unbalanced) channel, and pins 3 & 6 for the horizontal and vertical sync (unbalanced). The unit shall include both a send balun and a receive balun. The unit shall be an Intelix VGA-SR-F.