

Overview

The Dual Audio-Video Balun allows up to two (2) composite video signals and up to two (2) unbalanced audio signals to be transmitted via unshielded twisted pair (UTP) cable in a point-to-point connection.

Used in pairs, the Dual Audio-Video Balun eliminates up to four (4) coaxial cables, allowing audio-video equipment to be connected via space-efficient and cost-effective Category 5 twisted pair cable. The Dual Audio-Video Balun also works in conjunction with MuxLab's Audio-Video Distribution Hub (p/n 500200) allowing audio-video to be distributed via UTP to up to eight (8) locations.

Applications

Classroom video distribution, commercial and home audio/video systems, hospital video training, video conferencing, podium presentation systems and video kiosks.



Features & Benefits

- Cost-effective cabling – save up to three cables
- Up to 2,200 feet (670m) in color via Cat5e/6 UTP
- Compact design for neater wiring

Specifications	
Environment	Composite video and unbalanced audio for the consumer and commercial market.
Devices	DVD, VCR, camcorders, audio receivers, audio amplifiers, AV switchers, splitters, AV mixers and other analogue audio-video equipment featuring coaxial input or output with BNC or RCA connectors.
Transmission	Transparent to the user.
Bandwidth (3dB)	Video: DC to 8 MHz. Audio: 20 Hz to 20 kHz
Maximum Video Input	1.1Vp-p
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 8 MHz
Return Loss	Greater than 15 dB over the frequency range from DC to 8 MHz
Common Mode Rejection	Greater than 40 dB @ 8 MHz
Max. Distance – Colour Video	Cat5e/6 – 2,200 ft
Max. Distance – Audio	Cat5e/6 – 3,250 ft
Cable – UTP	24 gauge or lower solid copper twisted pair wire. Impedance: 100 ohms at 1 MHz. Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz
Cable – RCA	Standard audio cable terminated by RCA connectors.
Cable - BNC	75-ohm coaxial cable
Connectors	Two (2) RCA-receptacle for video Two (2) RCA-receptacle for audio One (1) RJ45 jack
Pin Configuration	Video 1: Pins 7 (R) & 8 (T) Video 2: Pins 4 (R) & 5 (T) Audio 1: Pins 1 (R) & 2 (T) Audio 2: Pins 3 (R) & 6 (T)
Impedance	Video: 75 ohms (RCA) unbalanced. Audio: 600 ohms (RCA) unbalanced.
Temperature	Operating: 0 to 55 C. Storage: -20 to 85 C. Humidity: up to 95%
Enclosure	Fire retardant plastic
Dimensions	2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm)
Weight	2.1 oz (61 gms)
Warranty	Lifetime
Order Information	500012 Dual Audio-Video Balun

Typical Application

