

**Overview**

The Stereo Audio Balun allows unbalanced line level stereo analogue audio to be transmitted via Category 5e/6 unshielded copper twisted pair (UTP) in a point-to-point connection.

The product is designed for audio applications where primarily midrange audio frequency response is required.

Used in pairs, the Stereo Audio Balun eliminates costly and bulky coaxial cable, allowing audio equipment to be connected or moved within a structured cabling environment.

The Stereo Audio Balun also works in conjunction with other MuxLab products such as the 500019, 500001, 500012, 500017 and 500200 for a more complete cabling solution.



**Applications**

Boardroom systems, classroom training, auditoriums, custom home installations and intercom systems.

**Features & Benefits**

- Cost-efficient cabling
- Up to 5,000 ft (1.5km) via Cat 5e/6 UTP
- Color-coded RCA cable leads
- Quicker moves, adds and changes
- Compact design

Specifications	
<b>Environment</b>	Line level unbalanced analogue audio
<b>Devices</b>	DVD, VCR, camcorders, audio mixers, audio matrix switchers, audio splitters, audio distribution amplifiers, boosters, satellite receivers, MPEG players, laptops, stereo audio amplifiers, audio switchers, integrated TV monitors and other line level audio equipment
<b>Transmission</b>	Transparent to the user.
<b>Bandwidth (3dB roll-off point) (400 Ω source &amp; 50 kΩ receiver)</b>	Up to 1,000 ft (305m): 60Hz - 20 kHz 1,000 ft (305m) to 5,000 ft (1.5 km): 100Hz - 20 kHz
<b>Maximum Input Level</b>	1.1Vp-p
<b>Insertion Loss per Balun Pair</b>	Less than 1 dB per pair over the frequency range
<b>Common Mode Rejection (CMMR)</b>	Greater than 60 dB @ 1 kHz
<b>Audio Source Impedance</b>	Less than 600 ohms
<b>Audio Receiver Impedance</b>	10 k ohms or greater
<b>Impedance Transformation Ratio</b>	Single unit: 4:1 (source: line)
<b>Cable – UTP</b>	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
<b>Max. Distance – Cat 5e/6 UTP</b>	5,000 ft (1,525m)
<b>Connectors</b>	Two (2) RCA-M 6" cable leads One (1) RJ45
<b>Pin Configuration (RJ45) EIA 568 A or B</b>	Audio 1 (White): pins 1[R] & 2 [T] Audio 2 (Red): pins 3 [R] & 6 [T]
<b>Temperature</b>	Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95%
<b>Enclosure</b>	ABS. Fire retardant plastic
<b>Dimensions</b>	1.875" x 1.0" diameter plus 6" audio lead
<b>Weight</b>	1.0 oz (28 gms).
<b>Warranty</b>	Lifetime
<b>Order Information</b>	500027 Stereo Audio Balun

**MuxLab Inc.**

8495 Dalton Road, Mount Royal, Quebec, Canada,  
H4T 1V5  
Tel: (+1) 514 905 0588 Fax: (+1) 514 905 0589  
Toll Free: 877 689-5228

Email: [videoease@muxlab.com](mailto:videoease@muxlab.com)  
URL : [www.muxlab.com](http://www.muxlab.com)

**Typical Application**

