

**Overview**

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

The product is designed for audio equipment equipped with 3.5mm line-level stereo output such as PC sound cards, laptops and multi-media servers where midrange audio frequency response is required.

The Stereo PC-Audio Balun also works in conjunction with other MuxLab products such as the 500019, 500001, 500012, 500017, 500027, 500028 and 500200 for a more complete cabling solution.

**Applications**

Boardroom systems, classroom training, auditoriums, custom home installations, media servers.



**Features & Benefits**

- Cost-efficient cabling
- Up to 5,000 ft (1.5km) via Cat 5/6 UTP
- Built-in 3.5mm stereo plug lead
- Quicker moves, adds and changes
- Compact design

Specifications	
<b>Environment</b>	Line level unbalanced analogue audio
<b>Devices</b>	PC sound cards, active speakers, DVD, camcorders, audio mixers, audio matrix switchers, audio splitters, audio distribution amplifiers, boosters, satellite receivers, MP3 players, laptops, stereo audio amplifiers, audio switchers, integrated TV monitors and other line level audio equipment. Not suitable for unamplified receivers (i.e. passive headphones) or non-amplified sources (i.e. passive microphones).
<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 5/6 UTP</b>	5,000 ft (1,525m)
<b>Connectors</b>	One (1) 3.5mm stereo plug with 6" cable lead One (1) RJ45
<b>Pin Configuration (RJ45)</b> <i>EIA 568 A or B</i>	Audio 1 (Left): pins 1[R] & 2 [T] Audio 2 (Right): 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>	500030 Stereo PC-Audio Balun

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## Typical Application

