

### Overview

The Stereo Hi-Fi Balun allows unbalanced line level stereo analogue audio to be transmitted via Category 5 unshielded copper twisted pair (UTP) in a point-to-point connection. The product is designed for audio applications where full-range, hi-fidelity audio frequency response is required.

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

### Applications

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



### Features & Benefits

- 20 Hz to 20 KHz bandwidth
- Cost-efficient cabling
- Up to 3,250 ft (1km) via Cat 5 UTP
- Color-coded RCA cable leads
- Quicker moves, adds and changes

Specifications	
<b>Environment</b>	Line level unbalanced analogue audio
<b>Devices</b>	DVD players, satellite receivers, MPEG players, laptops, hi-fidelity stereo audio amplifiers, audio switchers, AV monitors and other line level audio equipment
<b>Transmission</b>	Transparent to the user.
<b>3dB Bandwidth</b>	20 Hz to 20 KHz over the distance range
<b>Maximum Input</b>	1.1Vp-p (unbalanced)
<b>Insertion Loss per balun pair</b>	Less than 2 dB over the frequency range.
<b>Common Mode Rejection</b>	Greater than 60 dB @ 1 KHz Greater than 40 dB over the frequency and distance range
<b>THD</b>	Maximum 0.007% @ 1 KHz over distance range.
<b>Audio Source Impedance</b>	100 ohms maximum
<b>Audio Receiver Impedance</b>	10 k ohms minimum
<b>Max. Distance – Cat 5 UTP</b>	3,250 ft (1km)
<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>Cable – UTP</b>	24AWG 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>Cable – Coax</b>	Shielded audio cable
<b>Connectors</b>	Two (2) RCA-M 6" cable leads One (1) RJ45
<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>	2.40" x 2.25" x 1.00" plus 6" audio lead
<b>Weight</b>	3.1 oz (89 gms)
<b>Warranty</b>	Lifetime
<b>Order Information</b>	500028 Stereo Hi-Fi Balun

### MuxLab Inc.

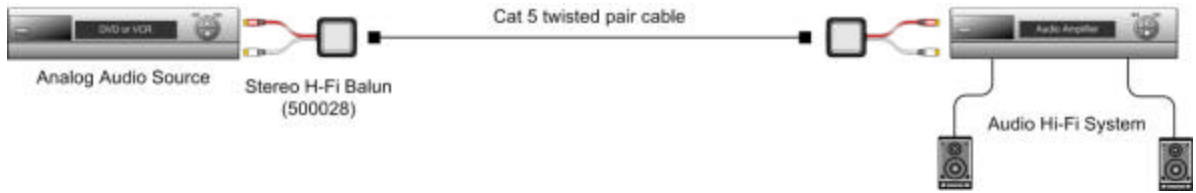
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## Typical Application



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