

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

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Typical Application

