

Overview

The Stereo Hi-Fi 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 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 Cat5e/6 UTP
- Color-coded RCA cable leads
- Quicker moves, adds and changes

Specifications	
Environment	Line level unbalanced analogue audio
Devices	DVD players, satellite receivers, MPEG players, laptops, hi-fidelity stereo audio amplifiers, audio switchers, AV monitors, powered subwoofer and other line level audio equipment
Transmission	Transparent to the user.
3dB Bandwidth	20 Hz to 20 KHz over the distance range
Maximum Input	1.1Vp-p (unbalanced)
Insertion Loss per balun pair	Less than 2 dB over the frequency range.
Common Mode Rejection	Greater than 60 dB @ 1 KHz Greater than 40 dB over the frequency and distance range
THD	Maximum 0.007% @ 1 KHz over distance range.
Audio Source Impedance	100 ohms maximum
Audio Receiver Impedance	10 k ohms minimum
Max. Distance – Cat5e/6 UTP	3,250 ft (1km)
Pin Configuration (RJ45) <i>EIA 568 A or B</i>	Audio 1 (White): pins 1 [R] & 2 [T] Audio 2 (Red): pins 3 [R] & 6 [T]
Cable – UTP	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
Cable – Coax	Shielded audio cable
Connectors	500028: Two (2) RCA-M 6" cable leads 500028-F: Two (2) RCA-F One (1) RJ45
Temperature	Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95%
Enclosure	ABS. Fire retardant plastic
Dimensions	2.40" x 2.25" x 1.00" plus 6" audio lead (500028)
Weight	3.1 oz (89 gms)
Warranty	Lifetime
Order Information	500028 Stereo Hi-Fi Balun, M 500028-2PK Stereo Hi-Fi Balun, M, 2-Pack 500028-F Stereo Hi-Fi Balun, F 500028-F-2PK Stereo Hi-Fi Balun, F, 2-Pack

MuxLab Inc.

8495 Dalton Road, Mount Royal, Quebec, H4T 1V5

Tel: (+1) 514 905 0588 Fax: (+1) 514 905 0589

Toll Free: 877 689-5228

E-mail: videoease@muxlab.com

URL: www.muxlab.com

Typical Application

