

Overview

The Stereo Hi-Fi Wall Balun (500028-WP-US) 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 Wall 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

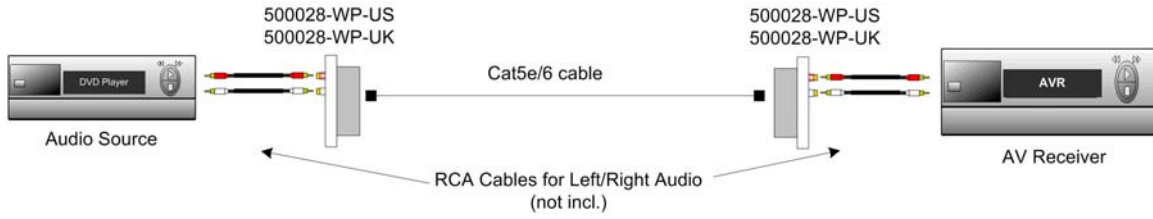
- 20 Hz to 20 KHz bandwidth
- Cost-efficient cabling
- Up to 3,250 ft (1km) via Cat5e/6 UTP
- Quicker moves, adds and changes
- Compatible with Decora™ face plates

| Specifications | |
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| 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 | 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 | 4.1" (104 mm) x 1.8" (45.7 mm) x 1.44" (36.6 mm). Choose 1.6" (40 mm) deep back box to allow for Cat 5E/6 wiring connection. |
| Weight | 4.1 oz (115 g) |
| Warranty | Lifetime |
| Order Information | 500028-WP-US Stereo Hi-Fi Wall Balun, US |

Decora™ is a registered trademark of Leviton Manufacturing Co, Inc.

Stereo Hi-Fi Wall Balun 500028-WP-US

Typical Application



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