



Overview

The Analog Audio Balun allows any unbalanced analog audio signal to be transmitted via a single unshielded twisted pair (UTP) cable for more versatile cabling.

Used in pairs, the Audio Balun eliminates costly and bulky coax cable, allowing consumer and commercial audio equipment to be connected using standard premises wiring techniques. One or two pair of baluns is required depending on whether the application is for monaural or stereo audio. The Audio Balun features screw terminals and built-in cable strain relief for ease of installation and reliable connectivity.

Benefits

Cost savings - eliminate costly coaxial cable
Less down time - quicker moves, adds and changes
Neater wiring



Features

Eliminates coax cable
Up to 5,000 feet via Cat 5 UTP
Cable strain relief
Compact design
Lifetime warranty

| Specifications | |
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| Environment | Unbalanced analog mono or stereo audio. |
| Devices | DVD, VCR, Camcorders, audio mixers, audio matrix switchers, audio splitters, audio distribution amplifiers, boosters, Hi-Fi, microphones, home theatre, and other commercial or consumer analog audio equipment. |
| Transmission | Transparent to the user. |
| Bandwidth (3dB roll-off point) (400 Ω source & 50 k Ω 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 (+20 dBu, unbalanced < 1% THD) |
| 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 | 100 to 600 Ω |
| Audio Receiver Impedance | 10 k Ω to 100 k Ω |
| 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 |
| Connectors | One (1) RCA-Male connector Two (2) screw terminals * <i>* Phase error sensitive. Ensure straight-thru polarity in stereo audio applications.</i> |
| Temperature | Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95% |
| Enclosure | Fire retardant plastic |
| Dimensions | 2.30" x 0.62 x 0.62 (5.8 x 1.6 x 1.6 cm) |
| Weight | 1.5 oz (42.5 gms) |
| Regulatory | FCC, CE. US Design patent # D495,320. |
| Warranty | Lifetime |
| Order Information | 500019 Analog Audio Balun |

Typical Application

