

Overview

The Quad Audio Balun allows up to four (4) analog line audio signals to be transmitted via unshielded twisted pair (UTP) cable in a point-to-point connection.

Used in pairs, the Quad Audio Balun allows up to four (4) coax audio cables to be replaced by one (1) Cat5e/6 cable. The Quad Audio Balun also works in conjunction with other MuxLab analog audio baluns such as the 500019.

Applications

Custom commercial and home audio systems, intercom systems, rental and staging systems, audio-video conferencing systems.



Features & Benefits

Cost-efficient cabling – save up to four (4) cables
20 Hz to 20 KHz bandwidth for high fidelity
Analog audio up to 3,250 ft (1.0 km) via Cat5e/6
Compact design for neater wiring

Specifications	
Environment	Unbalanced line-level analog audio.
Devices	DVD players, audio receivers, audio amplifiers and audio mixers, audio matrix switchers and other unbalanced line-level audio equipment.
Transmission	Transparent to the user
Bandwidth	20 Hz to 20 kHz
Peripherals' Impedance	Source 100 Ω Mx, Receiver 10 kΩ min.
Insertion Loss	Less than 2 dB per pair over the frequency range
Common Mode Rejection Ratio	Greater than 60 dB at 1 kHz
THD	Less than 0.007% @ 1 kHz
Maximum Input Level	1.1 Vp-p
Impedance Transformation Ratio	Single unit: 4:1 (source: line)
Cable: Cat 5E UTP/STP	24 AWG or lower solid copper twisted pair wire Impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/ft Attenuation: 6.6 dB/1,000 ft at 1 MHz
Unbalanced In/ Out Cable	Shielded, coaxial
Ground Loop Isolation	Range of +/-50VDC
Connectors	Four (4) RCA receptacles for audio, one (1) RJ45 jack
Pin Configuration	Audio 1: Pins 7(R) & 8(T) Audio 2: Pins 3(R) & 6(T) Audio 3: Pins 4(R) & 5(T) Audio 4: Pins 1(R) & 2(T)
Max. Distance: Cat 5E/6 UTP/STP	3250 ft (1 km)
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Fire retardant plastic
Weight	3.6 oz (103 g)
Dimensions	2.40" x 2.25" x 1.00" (6.10 x 5.72 x 2.54 cm)
Warranty	Lifetime
Order Information	500033 Quad Audio Balun (Rev B)

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Typical Application

