

Overview

The Stereo PC-Audio Balun allows unbalanced line level stereo analogue audio to be transmitted via Category 5/6 unshielded copper twisted pair (UTP) in a point-to-point connection.

The product is designed for audio equipment equipped with 3.5mm line-level stereo output such as PC sound cards, laptops and multi-media servers where midrange audio frequency response is required.

The Stereo PC-Audio Balun also works in conjunction with other MuxLab products such as the 500019, 500001, 500012, 500017, 500027, 500028 and 500200 for a more complete cabling solution.

Applications

Boardroom systems, classroom training, auditoriums, custom home installations, media servers.

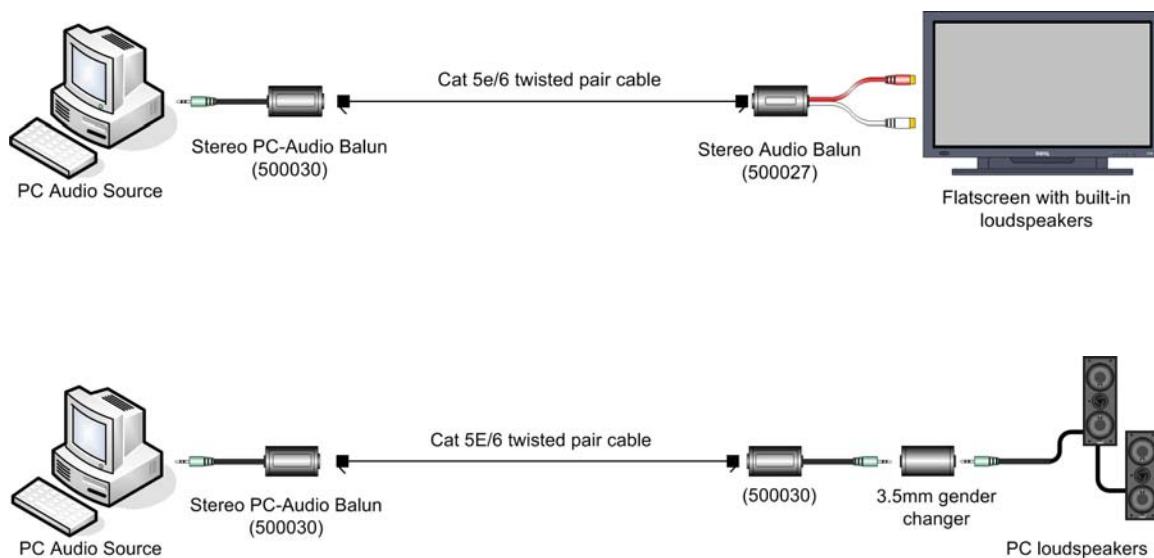


Features & Benefits

- Cost-efficient cabling
- Up to 5,000 ft (1.5km) via Cat 5/6 UTP
- Built-in 3.5mm stereo plug lead
- Quicker moves, adds and changes
- Compact design

Specifications	
Environment	Line level unbalanced analogue audio
Devices	PC sound cards, active speakers, DVD, camcorders, audio mixers, audio matrix switchers, audio splitters, audio distribution amplifiers, boosters, satellite receivers, MP3 players, laptops, stereo audio amplifiers, audio switchers, integrated TV monitors and other line level audio equipment. Not suitable for unamplified receivers (i.e. passive headphones) or non-amplified sources (i.e. passive microphones).
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
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 5/6 UTP	5,000 ft (1,525m)
Connectors	One (1) 3.5mm stereo plug with 6" cable lead One (1) RJ45
Pin Configuration (RJ45) <i>EIA 568 A or B</i>	Audio 1 (Left): pins 1[R] & 2 [T] Audio 2 (Right): 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	500030 Stereo PC-Audio Balun

Typical Application



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