

Overview

The Stereo Hi-Fi/Video GLI Balun (500039-GLI) allows a single composite video signal to be transmitted via unshielded twisted pair (UTP) cable up to 2,200 ft (670m) in a point-to-point connection. The Stereo Hi-Fi/Video GLI Balun features full audio bandwidth response for high fidelity applications and features Ground Loop Isolation (GLI) to help eliminate “hum” bars. Only one 500039-GLI is required per connection and may be used in conjunction with the 500001, 500039 and 500200.

The 500039-GLI is recommended where ground loop issues are present or of potential concern and may be applied in applications such as residential, classroom and boardroom AV systems.



Features & Benefits

- Up to 2,200 feet (670m) via Cat5e/6 UTP
- Stereo Hi-Fi audio up to 3,250 ft (990m)
- Ground Loop Isolation (GLI)
- Helps eliminate “hum bars”
- Only one required per connection
- Works with standard MuxLab composite video baluns

Specifications	
Environment	Composite video (NTSC, PAL, SECAM) equipment
Devices	DVD players, VCR, satellite receivers, MPEG players, laptops, notebooks, monitors, DLP projectors, CCD cameras, video switchers, sequencers, digital video servers, video multiplexers, video splitters, video converters and other composite video equipment.
Transmission	Transparent to the user.

	Composite Video	Audio
Bandwidth	DC to 8 MHz	20 Hz to 20 KHz over the distance range
Impedance	75 ohms	600 ohms min.
Max. Input	1.1Vp-p	1.1Vp-p
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 6 MHz	Less than 2 dB per pair over the frequency range.
Return Loss	Better than 15 dB over the frequency range	N/A
Common Mode Rejection	Greater than 40 dB over the frequency range	N/A
Max. Distance – Cat5E/6 UTP	2,200 ft. (670m)	3,250 ft (990m)
Pin Configuration (RJ45)	Video (Yellow): pins 7[R] & 8 [T] <i>Reverse Polarity Sensitive</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	
Connectors	One (1) RCA-M for video (yellow) Two (2) RCA-M for stereo audio (red, white) One (1) RJ45 for Cat5E/6	
Temperature	Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95% non-cond.	
Enclosure	Fire retardant plastic	
Dimensions	2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm) plus 6" (15.24cm) cable leads for video and stereo audio	
Weight	3.1 oz (89 gms)	
Warranty	Lifetime	
Order Information	500039-GLI Stereo Hi-Fi/Video GLI Balun	

Typical Applications

