

Overview

The S-Video/Audio GLI Balun (500018) allows one S-Video channel plus one stereo audio channel to be transmitted via Cat5e/6 cable and features Ground Loop Isolation (GLI) to help eliminate “hum” bars. Only one 500018 is required per connection and may be used in conjunction with the 500016, 500017, 500038 and 500200.

The S-Video/Audio GLI Balun 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 1,000 feet (305m) via Cat5e/6 UTP
- Stereo audio up to 3,250 ft (990m)
- Ground Loop Isolation (GLI)
- Helps eliminate “hum bars”
- Only one required per connection
- Works with standard MuxLab S-Video baluns
- Includes 6” dual RCA jumper cable

Specifications	
Environment	S-Video equipment
Devices	DVD players, VCR, satellite receivers, MPEG players, laptops, notebooks, monitors, LCD projectors, CCD cameras, video switchers, sequencers, digital video servers, video multiplexers, S-Video splitters, S-Video converters and other S-Video equipment.
Transmission	Transparent to the user.

	S-Video	Audio
Bandwidth	DC to 6 MHz	600 ohms:73 Hz to 156 KHz;@1,000 ft 1.2Kohms:128 Hz to 91 KHz;@1,000 ft
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	600 ohms: < 3dB per pair; 1.2 Kohms: <1.9 dB per pair
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	1,000 ft. (305m)	3,250 ft (990m)
Pin Configuration (RJ45)	S-Video Luma: pins 7[R] &8 [T] S-Video Chroma: pins 4[R] & 5 [T] <i>Reverse Polarity Sensitive</i>	Audio 1: pins 1[R] & 2 [T] Audio 2: 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	
Ground Loop Isolation	Up to 50VDC on the S-Video channel.	
Connectors	One (1) 4-pin Mini DIN Two (2) RCA audio jacks One (1) RJ45 Includes one (1) 6” dual-RCA stereo audio cable. Up to 12 feet of audio cable (not included) may be used with the 500017.	
Temperature	Operating: 0 to 55 C. Storage:-20 to 85 C. Humidity: up to 95%	
Enclosure	Fire retardant plastic	
Dimensions	2.40” x 2.25” x 1.00” plus 5” S-Video lead	
Weight	3.1 oz (89 gms)	
Warranty	Lifetime	
Order Information	500018 S-Video/Audio GLI Balun	

Typical Applications

