

**Overview**

The S-Video Balun allows a single S-Video signal to be transmitted via unshielded twisted pair (UTP) cable up to 1000 ft (305m) in a point-to-point connection.

The product is available in two models; the S-Video Balun (500016) and the S-Video/Audio Balun (500017). Used in pairs, the S-Video Balun eliminates costly and bulky S-Video cable, allowing S-Video equipment to be connected or moved to any convenient modular outlet.

The S-Video Balun also works in conjunction with MuxLab's Audio-Video Distribution Hub (p/n 500200) to allow S-Video programming to be distributed via UTP. Some of the applications are; classroom video distribution, commercial and home audio/video systems, hospital video training, video conferencing, and video kiosks.



500016

500017

**Features & Benefits**

- Eliminate S-Video patch cables
- 20 Hz to 20 KHz audio bandwidth
- Up to 1000 feet (305m) via Cat5e/6 UTP
- Quicker moves, adds and changes
- Greater distance than S-Video cable
- Compact design for neater wiring
- 500017 includes 6" dual RCA jumper cable

Specifications		
<b>Environment</b>	S-Video equipment	
<b>Devices</b>	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.	
<b>Transmission</b>	Transparent to the user.	
	<b>S-Video</b>	<b>Audio</b>
<b>Bandwidth</b>	DC to 6 MHz	20 Hz to 20 KHz
<b>Impedance</b>	75 ohms	600 ohms min.
<b>Max. Input</b>	1.1Vp-p	1.1Vp-p
<b>Insertion Loss</b>	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.
<b>Return Loss</b>	Better than 15 dB over the frequency range	N/A
<b>Common Mode Rejection</b>	Greater than 40 dB over the frequency range	Greater than 60 dB @ 1 KHz Greater than 40 dB over the frequency and distance range
<b>Max. Distance – Cat5e/6 UTP</b>	1,000 ft. (305m)	3,250 ft (990m)
<b>Pin Configuration (RJ45)</b>	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]
<b>Cable – UTP</b>	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	
<b>Connectors</b>	500016: One (1) 4-pin Mini DIN and one (1) RJ45 500017: One (1) 4-pin Mini DIN, two (2) RCA audio jacks and one (1) RJ45 The 500017 comes with one (1) 6" dual-RCA stereo audio cable. Up to 12 feet of audio cable (not included) may be used with the 500017.	
<b>Temperature</b>	Operating: 0 to 55 C. Storage:-20 to 85 C. Humidity: up to 95%	
<b>Enclosure</b>	Fire retardant plastic	
<b>Dimensions</b>	500016: 1.875" x 1.0" diameter plus 5" S-Video lead 500017: 2.40" x 2.25" x 1.00" plus 5" S-Video lead	
<b>Weight</b>	500016: 1.0 oz (28 gms). 500017: 3.1 oz (89 gms)	
<b>Warranty</b>	Lifetime	
<b>Order Information</b>	500016 S-Video Balun 500017 S-Video/Audio Balun	

**Typical Applications**



**S-Video and Audio Distribution Using 500200 and 500017**

