

### Overview

The Component Video/Stereo Audio Balun (500058) allows one component video (YPbPr or RGB) signal and one (1) Stereo Audio channel to be transmitted via one (1) Cat5E/6 twisted pair cable for more cost-efficient cabling. The product features Ground Loop Coupling (GLC) to help eliminate hum bars.

Used in pairs, the Component Video/Stereo Audio Balun supports high-definition resolution and true left/right stereo audio for hi-fidelity commercial and residential AV applications.

### **Benefits**

More cost efficient cabling Quicker moves, adds and changes Neater wiring



### **Features**

Supports 480i/p up to 1,000 ft (305m) via one Cat5E/6\*

Supports 720p/1080i/p up to 500 ft (152m) via Cat5E/6

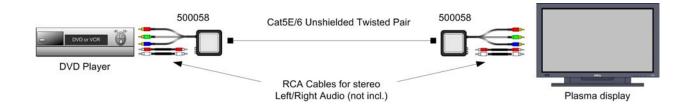
Supports true Hi-Fi left/right analog stereo audio Ground Loop Coupling (GLC) (US Pat. # 8,299,649) Modular shielded RJ45 connector

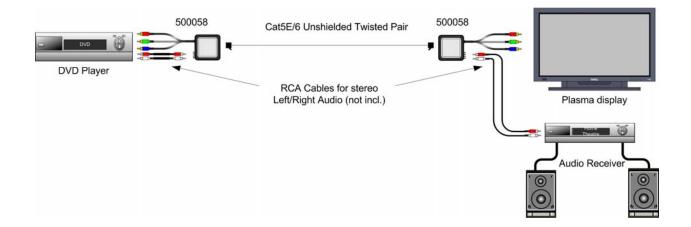
\* Not compatible with 500050/51/52/53/54/55/56/57

Environment	Component Video (YPbPr), RGB Video (sync on green). 480i/p, 720p, 1080i/p. Stered
	line level analog audio.
Devices	DVD players, satellite receivers, plasma displays, projectors, monitors, up-converters,
	amplifiers, switchers, home theatre and other equipment supporting HDTV componen
	video and/or analog audio.
Transmission	Transparent to the user.
Bandwidth	Video: DC-60 MHz, 3 dB roll off. Analog audio: 20 Hz to 20 KHz
Maximum Input	1.1Vp-p
Insertion Loss per pr (Y channel)	.1 dB for 0.1 MHz. Gradually increasing to 2.5 dB over the frequency range
Insertion Loss per pr (audio)	Less than 2 dB per pair over the frequency range.
THD	Less than 0.007% @ 1KHz
Return Loss (Y channel)	Greater than 15 dB over the frequency range
Common Mode Rej. (Y channel)	-55 dB @ 0.1 MHz. Gradually increasing to –20 dB @ 60 MHz.
Ground Loop Coupling (GLC)	Proprietary technique helps eliminate hum bars. US Patent. # 8,299,649
Max. Distance -Cat 5E/6 UTP/STP	480i/p: 1,000 ft (305m) 720p and 1080i/p: 500 ft (152m)
	Analog Stereo Audio: 3,250 ft (990m)
Cable - Cat5E/6 UTP/STP	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
Cable - Coax	Impedance: 75 ohms at 1 MHz
Connectors	Three (3) RCA-M connectors: Green (Y), Blue (Pb), Red (Pr), 6" leads
	Two (2) RCA-F connectors for left/right stereo audio
	RJ45S for twisted pair
Pin Configuration	Pair 3 Pair 1 Pair 2 Pair 4 Pair 2 Pair 1 Pair 3 Pair 4
EIA 500 standard	Pair S Pair   Pair 2 Pair 4 Pair 2 Pair 4 Pair 3 Pair 4
EIA 568 standard Either 568A or 568B	
Straight-through pinning	
Reverse polarity sensitive	
Four (4) twisted pairs required	
, , , , ,	
	12345678
	EIA568A EIA568B
Townsulative	Operating: 0° to EE°C Storage: 20° to 9E°C Humidity: up to 0E°/
Temperature	Operating: 0° to 55°C. Storage:-20° to 85°C. Humidity: up to 95%  ABS fire retardant plastic
Enclosure	2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm) plus 6" (15.24cm) cable lead for video
Dimensions	T Z AU X Z ZO X TU IN TX O / X Z OA CITITOIUS N. CLO ZACITI CADIA IRAN TOL VIDAO
Dimensions Weight	, , , , , , ,
Weight	4.4 oz/ 122 gms
Weight Regulatory	4.4 oz/ 122 gms FCC, CE, RoHS.
Weight	4.4 oz/ 122 gms

# Component Video/Stereo Audio Balun 500058

### **Typical Application**





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