

Overview

The Component Video/Digital Audio Balun (500050, 500051) allows one component video (YPbPr or RGB) signal and one Digital Audio signal to be transmitted via one Category 5E/6 twisted pair cable for more cost-efficient cabling.

Used in pairs, the Component Video/Digital Audio Balun supports 480i/p, 720p and 1080i/p video formats for commercial and residential hi-definition (HDTV) video applications.

Benefits

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



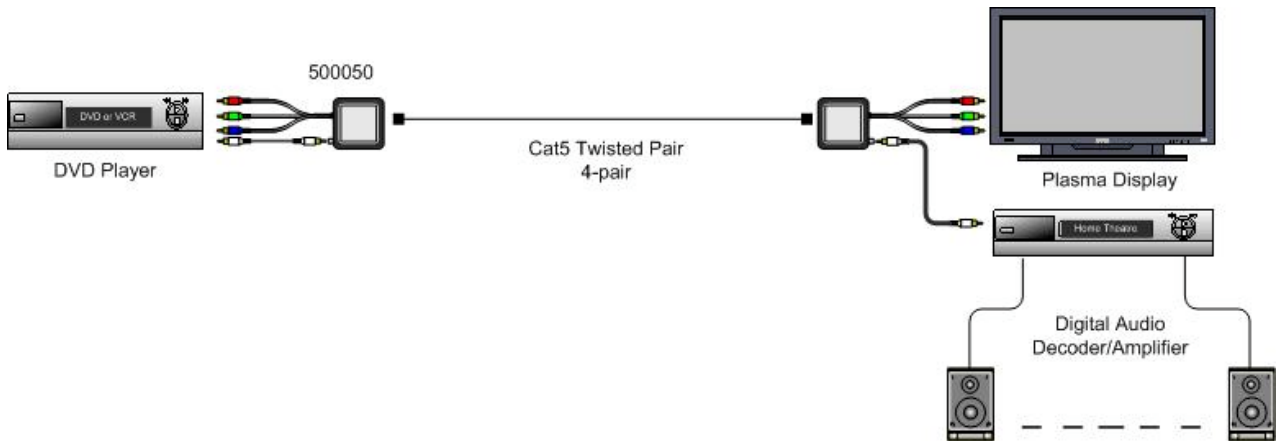
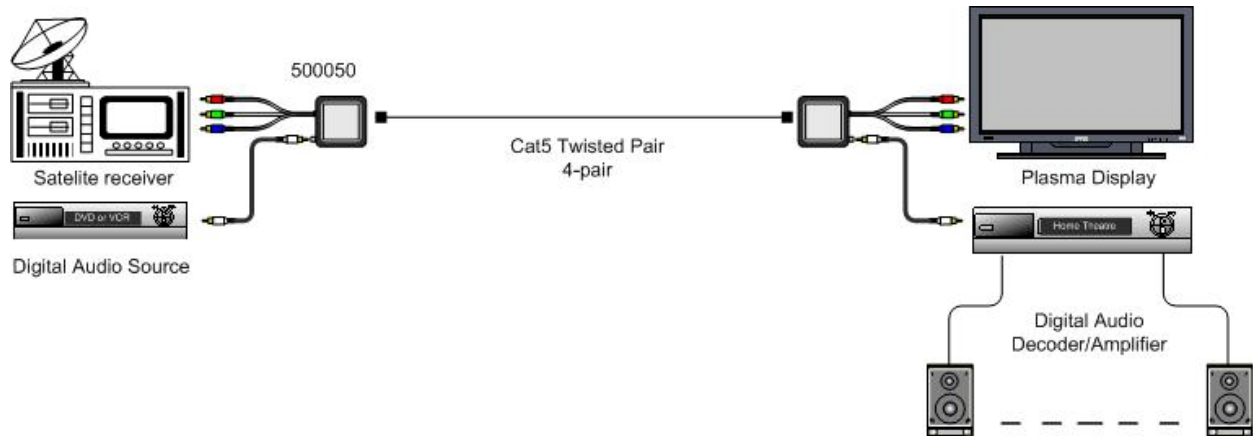
Features

Supports 480i/p, 720p, 1080i/p
 Supports 480i/p up to 1,000 ft (305m) via Cat5E/6
 Supports 720p/1080i/p up to 500 ft (152m) via Cat5E/6E/6
 Moulded colour-coded RCA cable leads
 Supports digital audio on fourth twisted pair
 Modular shielded RJ45 connector

| Specifications | |
|---|--|
| Environment | Component Video (YPbPr), RGB Video (sync on green). 480i/p, 720p, 1080i/p. |
| Devices | DVD players, satellite receivers, plasma displays, projectors, monitors, up-converters, amplifiers, switchers, home theatre and other equipment supporting HDTV component video and/or digital audio (Dolby Digital™, dts™). |
| Transmission | Transparent to the user. |
| Bandwidth | Video: 60 MHz, 3 dB roll off Digital audio: 25 MHz, 1dB roll off. Does not have DC continuity |
| Maximum Input | 1.1Vp-p |
| Insertion Loss per pair (video) | .1 dB for 0.1 MHz. Gradually increasing to 3.0 dB over the frequency range |
| Insertion Loss per pair (audio) | Less than 1 dB over the frequency range |
| Return Loss (video) | Greater than 15 dB over the frequency range |
| Return Loss (audio) | Greater than 15 dB over the frequency range |
| Common Mode Rejection (video) | -55 dB max. |
| Common Mode Rejection (audio) | -55 dB max. |
| Max. Distance Colour – Cat5E/6 UTP & STP | 480i/p: 1,000 ft (305m). 720p and 1080i/p: 500 ft (152m). Digital Audio: 600 ft (182m). Compatible with 500020. |
| 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 | 500050: Three (3) RCA-M connectors: Green (Y), Blue (Pb), Red (Pr) 500051: Three (3) gold-plated RCA-F connectors: Green (Y), Blue (Pb), Red (Pr) One (1) RCA-F connector for digital audio RJ45S for twisted pair |
| Pin Configuration <i>Reverse polarity sensitive</i> | Red (Pr): Pins 7 [R] & 8 [T] Green (Y): Pins 3 [R] & 6 [T] Blue (Pb): Pins 1 [R] & 2 [T] Digital Audio: Pins 4 [R] & 5 [T] |
| Temperature | Operating: 0° to 55°C. Storage: -20° to 85°C. Humidity: up to 95% |
| Enclosure | ABS fire retardant plastic |
| Dimensions | 2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm) 500050: plus 6" (15.24cm) cable lead for video. |
| Weight | 2.9 oz (81gms) |
| Regulatory | FCC, CE, RoHS. |
| Warranty | Lifetime |
| Order Information | 500050 Component Video/Digital Audio Balun, M 500051 Component Video/Digital Audio Balun, F |

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Typical Application



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