

Overview

The Component/Composite Video Balun (500056, 500057) allows one component video (YPbPr or RGB) signal and one Composite Video signal to be transmitted via one Category 5E/6 twisted pair cable for more cost-efficient cabling.

Used in pairs, the Component/Composite Video Balun supports 480i/p, 720p and 1080i/p video formats for commercial and residential hi-definition (HDTV) video applications. Works in conjunction with MuxLab rack, wall and surface mounting accessories.

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 Cat 5E/6
- Moulded colour-coded RCA cable leads
- Supports composite video on fourth twisted pair
- Modular shielded RJ45 connector

| Specifications | |
|---|---|
| Environment | Component Video (YPbPr), RGB Video (sync on green). 480i/p, 720p, 1080i/p. Line level Composite Video (NTSC, PAL, SECAM). |
| Devices | DVD players, satellite receivers, plasma displays, projectors, monitors, up-converters, amplifiers, switchers, home theatre and other equipment supporting HDTV component video and/or Composite Video. |
| Transmission | Transparent to the user. |
| Bandwidth | Video: 60 MHz, 3 dB roll off. Composite Video: DC to 8 MHz |
| Maximum Input | 1.1Vp-p |
| Insertion Loss per pair | Component: Less than 3 dB per pair over the frequency range. Composite: Less than 2 dB per pair over the frequency range. |
| Return Loss | Greater than 15 dB over the frequency range |
| Common Mode Rejection | Component: -55 dB max. Composite: Greater than 40 dB @ 8 MHz |
| Max. Distance – Cat 5E/6 UTP & STP | 480i/p: 1,000 ft (305m). 720p and 1080i/p: 500 ft (152m). Composite Video: 2,200 ft (670m). |
| Cable – Cat5/6 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 | 500056: Three (3) RCA-M connectors: Green (Y), Blue (Pb), Red (Pr) 500057: Three (3) gold-plated RCA-F connectors: Green (Y), Blue (Pb), Red (Pr) One (1) RCA-F connector for Composite Video 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] Composite Video: 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 | 500056: plus 6" (15.24cm) cable lead for video. 500057: 2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm) |
| Weight | 2.6 oz (74gms) |
| Regulatory | FCC, CE, RoHS. |
| Warranty | Lifetime |
| Order Information | 500056 Component/Composite Video Balun, M 500057 Component/Composite Video Balun, F |

Component-Composite Video Balun 500056, 500057

Typical Application



Head Office

8495 Dalton Road, Mount Royal, Quebec, Canada, H4T 1V5

Tel: 514-905-0588 Fax: 514-905-0589

Toll-free: 877-689-5228

E-mail: videoease@muxlab.com

URL: www.muxlab.com