

Overview

The Component Video/IR Pass-Thru Balun (500054, 500055) allows one component video (YPbPr or RGB) signal and one IR emitter signal to be transmitted via one Category 5E/6 twisted pair cable for more cost-efficient cabling.

Used in pairs, the Component Video/IR Pass-Thru 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/6
Moulded colour-coded RCA cable leads
Supports IR-emitter pass-thru on fourth twisted pair
Modular shielded RJ45 connector

Specifications	
Environment	Component Video (YPbPr), RGB Video (sync on green). 480i/p, 720p, 1080i/p. IR emitter pass-thru.
Devices	DVD players, satellite receivers, plasma displays, projectors, monitors, up-converters, amplifiers, switchers, home theatre and other equipment supporting HDTV component video and IR control.
Transmission	Transparent to the user.
Bandwidth	Video: 60 MHz, 3 dB roll off.
Maximum Input	1.1Vp-p
Insertion Loss per pair	.1 dB for 0.1 MHz. Gradually increasing to 3.0 dB over the frequency range
Return Loss	Greater than 15 dB over the frequency range
Common Mode Rejection	-55 dB max.
Max. Distance Colour – Cat5E/6 UTP & STP	480i/p: 1,000 ft (305m). 720p and 1080i: 500 ft (152m). IR: Please refer to IR vendor specifications.
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	500054: Three (3) RCA-M connectors: Green (Y), Blue (Pb), Red (Pr) 500055: Three (3) gold-plated RCA-F connectors: Green (Y), Blue (Pb), Red (Pr) One (1) 2-pole terminal block for IR emitter pass-through 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] IR Pass-Thru: 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	500054: plus 6" (15.24cm) cable lead for video. 500055: 2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm)
Weight	2.9 oz (81gms)
Regulatory	FCC, CE, RoHS.
Warranty	Lifetime
Order Information	500054 Component Video/IR-Pass-Thru Balun, M 500055 Component Video/IR-Pass-Thru Balun, F

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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