



Overview:The RJ45 Quad Video Balun allows up to four (4) composite video signals to be transmitted via unshielded twisted pair (UTP) cable in a point-to-point connection. Used in pairs, the Quad Video Balun eliminates up to four (4) coaxial cables, allowing video equipment to be connected via space-efficient and cost-effective Category 5/6 twisted pair cable.

Applications:Security video, classroom video, commercial and home audio/video systems, hospital video training, video conferencing, podium presentation systems and video kiosks

Features & Benefits:Cost-efficient—replace up to four (4) coax cables Composite video up to 2,200 ft (670m) via Cat 5/6 Component video up to 1,000 ft (305m) via Cat 5/6 Compact design for neater wiring

Environment

Composite video: NTSC, PAL, SECAM,
Component video (480i/p)

Devices

DVD players, cable boxes, video distribution amplifiers, security video cameras, digital video recorders and other composite video equipment.

Transmission

Transparent to the user.

3dB bandwidth

Video: DC to 8 MHz.

Maximum Video Input

1.1Vp-p

Insertion Loss

Less than 3 dB per pair over the frequency range from DC to 8 MHz

Return Loss

Greater than 15 dB over the frequency range from DC to 8 MHz

Common Mode Rejection

Greater than 40 dB over the frequency range

Cable - UTP

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

75-ohm coaxial cable

Connectors

Four (4) RCA-receptacle for video,
One (1) RJ45 jack

Pin Configuration

Video 1: Pins 7 (R) & 8 (T)
Video 2: Pins 4 (R) & 5 (T)
Video 3: Pins 1 (R) & 2 (T)
Video 4: Pins 3 (R) & 6 (T)

Impedance

Video: 75 ohms (RCA) unbalanced.

Max. Distance – Cat5 UTP

Composite video: 2,200 ft. Less distance may result with DVR equipment Component video (YPbPr): 1,000 ft (305 m) (480i/p only).

Temperature

Operating: 0 to 55 C, Storage: -20 to 85 C,
Humidity: up to 95%

Enclosure

Metal housing

Dimensions

91 x 24 x 67 (mm)

Order Information

RJ45 Quad Video Balun-RCA (QVBR1)

