

**SPECIFICATIONS**

Bandwidth: Video DC to 8MHz  
 Maximum RF Input: 1.1V peak to peak  
 Impedance: 75 Ohm to 100 Ohm  
 Insertion Loss: Max 2dB per pair over the frequency range from DC to 8MHz  
 Return Loss: Greater than 15dB over the frequency range from DC to 8MHz  
 Common Mode Rejection: Greater than 40dB at 8MHz  
 Max UTP Wire Distance: CAT-3, 1200 ft.; CAT-5, 2200 ft.  
 UTP Cable: 24 gauge or lower solid copper twisted pair, 100 ohm at 1MHz impedance

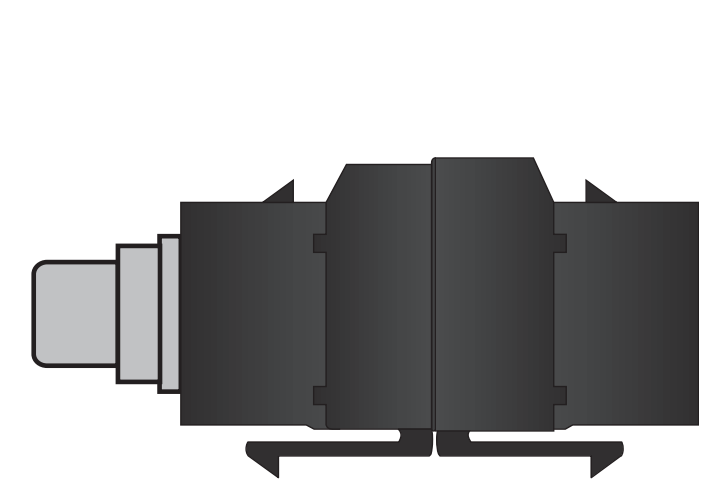
**PRODUCT OVERVIEW**

The MOD-VB Video Balun is a bi-directional video signal converter for multi-zone video distribution via unshielded twisted pair (UTP) cable such as CAT-3 or CAT-5. Other applications include video conferencing, closed circuit TV, video bulletin boards and surveillance monitoring cameras.

The Video Balun eliminates the need for costly and bulky coax cable, converting a balanced video signal over UTP cable to an unbalanced video signal over RCA cable (hence the name BALUN). This allows baseband video to be transmitted from the source equipment to the viewing equipment through UTP cabling. Video baluns are used in pairs, one at each end of the UTP cable run, and are designed to fit into PlateMate™ modular wallplates such as the PM-MOD1S.

**Russound®**  
 A/V DISTRIBUTION & CONTROL SYSTEMS

**PlateMate™ MOD-VB  
 Video Balun**  
 RCA to RJ-45 Video Signal Converter  
 Instruction Manual



1. Turn off power and disconnect the video equipment. Make sure that the UTP is not in use for telephone or LAN.
2. Determine length of UTP needed. Crimp an RJ-45 connector to each end using T568A wiring standard. See Figure 1 on inside pages.
3. If modular PlateMate™ wallplates are used, insert the video balun into the PlateMate™ modular opening with the RCA end facing out into the room. See Figure 2 on inside pages.
4. Connect an RCA cable from the Video Out jack on the source component to the RCA connection end of the Video Balun. See Figure 2 on inside pages.
5. Connect another RCA cable from the Composite Video In jack on the video monitor or television to the RCA connection end of the second Video Balun. (Note: Not all televisions have composite video inputs. Check with the owner's manual or manufacturer of that product.)
6. Connect one end of the terminated UTP cable to the RJ-45 connection end of one of the video baluns. Connect the other end of the terminated UTP cable to the RJ-45 connection end of the other video balun.

**INSTALLATION**

**LIMITED WARRANTY**

The Russound MOD-VB Video Balun is fully guaranteed for ten (10) years from the date of purchase against all defects in materials and workmanship. For this warranty to apply, the unit must be installed and used according to its written instructions. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. Accidental damage and shipping damage are not considered defects under the terms of this warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. If service is necessary, it must be performed by Russound. Damage to or destruction of components due to excessive power voids the warranty. In these cases, the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write the RA number on the shipping label and ship to: Russound, ATTN: Service, 5 Forbes Road, Newmarket NH 03857

Russound sells product only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

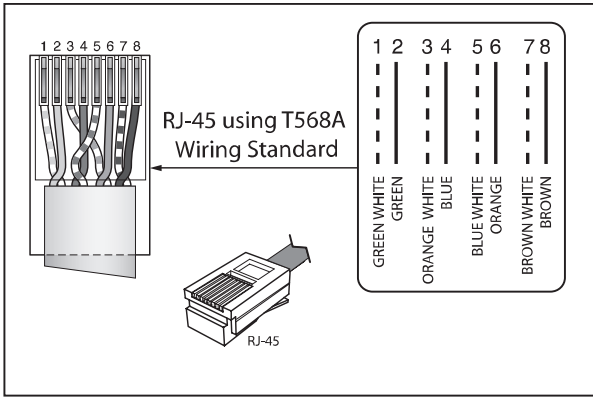
**Russound®**  
 A/V DISTRIBUTION & CONTROL SYSTEMS  
 5 Forbes Rd. Newmarket, NH 03857, USA  
 ☎ 603.659.5170 • Fax 603.659.5388  
 e-mail: tech@russound.com

*the right connection*

Come visit us at:  
[www.russound.com](http://www.russound.com)

**WIRE TERMINATIONS**

**OTHER RUSSOUND® PRODUCTS**



**PlateMate™ Wallplates**

**Standard**

- PM-MOD1S
- PM-MOD2S
- PM-MOD3S
- PM-MOD4S

**Decora®**

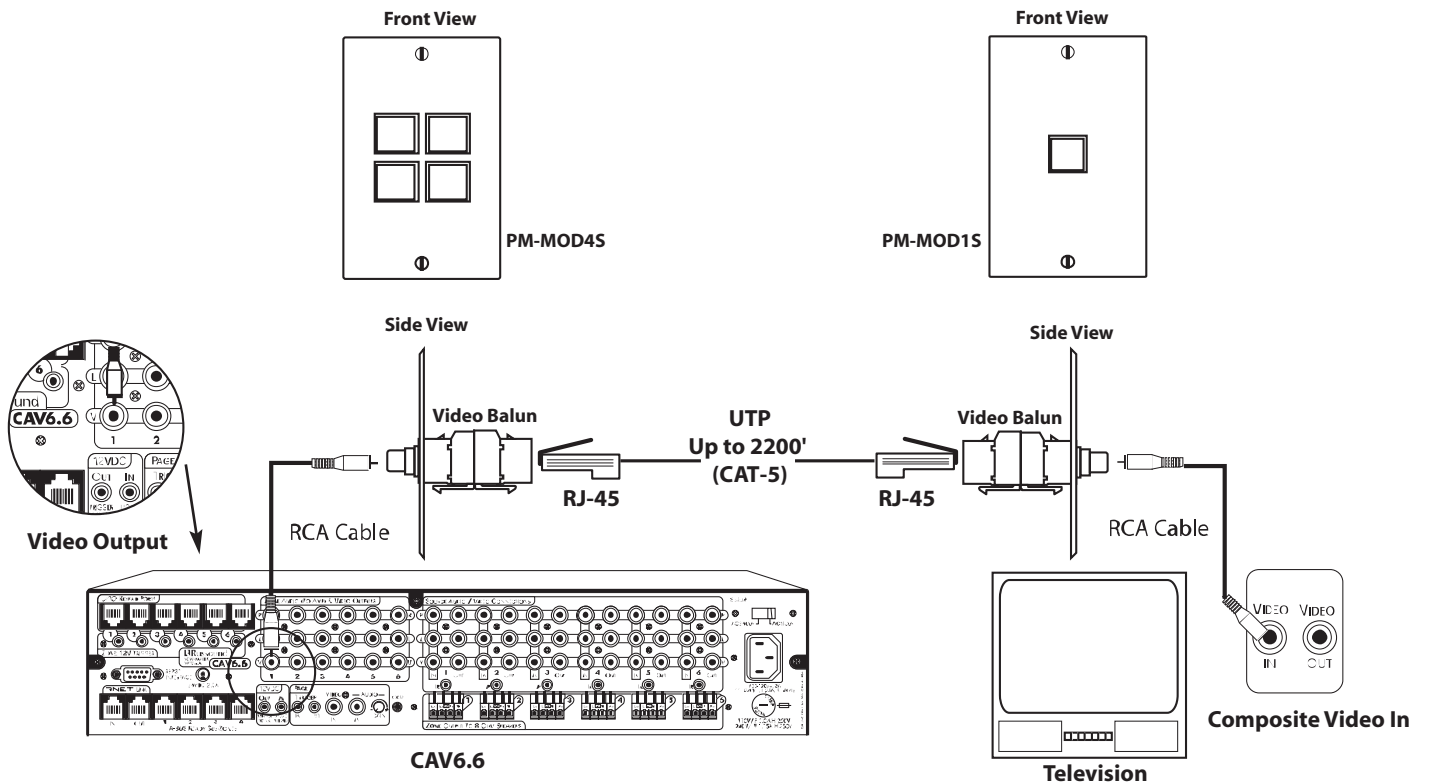
- PM-MOD1D
- PM-MOD2D
- PM-MOD3D

Decora® is a registered trademark of Leviton Corp.

**Figure 1**

**T568A Wiring Standards for RJ-45 Connector**

**VIDEO BALUN CONNECTIONS**



**Figure 2**

**Video Balun Connections with UTP and RCA Cables  
(Not to scale)**