

# MCM CUSTOM AUDIO

## A/V to Cat5 Balun System

### Overview

This balun system allows installers to take advantage of Cat5 (or higher) cable for interconnecting A/V components over long distances. Common signal formats such as composite video, RGB component video, S-video and line level audio can easily be sent over UTP cable for considerable distances. This is useful in retrofit applications as it takes advantage of unused pairs of Cat5 data cable already in place. In new construction, take advantage

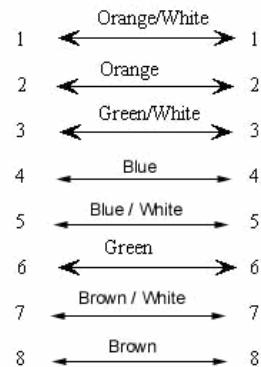
of the smaller size and lower cost of Cat5 cable when distributing signals throughout the structure. Each balun accepts standard RJ45 male connectors, is completely passive and requires no power. Each unit is clearly labeled to identify which RJ45 connector pair is used for the designated signal path.

### Important Note:

Baluns must be used in pairs.

### Wiring

The diagram to the right illustrates the wiring layout of standard RJ45 connectors in Network applications. Note that pairs exist between pin #4/5, #3/6, #1/2 and #7/8. When looking at an RJ45 connector from the bottom, with the spring tab facing down, pin #1 will appear on the left.



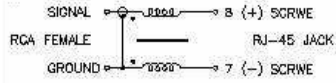
### Distance

Actual usable maximum distance between these baluns will vary on a number of factors including strength of signal, quality of terminations and local sources of interference. The distances listed are based on use of Cat5 cable, and should be considered an absolute minimum. Depending upon the size of the video monitor, and level of required video signal, usable distances will likely be much greater. Distances will increase with Cat5e, Cat6 or higher rated cable.

Model	Distance
50-7710	1000'
50-7720	400'
50-7722	400'
50-7724	1000'
50-7725	1000'
50-7730	400'
50-7732	1000'
50-7742	1000'

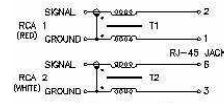
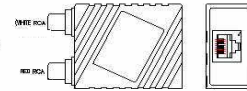
**MCM Electronics**  
650 Congress Park Drive  
Centerville, Ohio 45459  
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### Composite Video



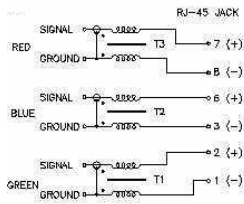
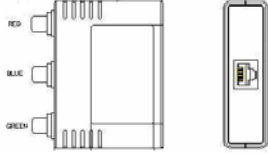
**Model 50-7710**

### L/R Line Level Audio



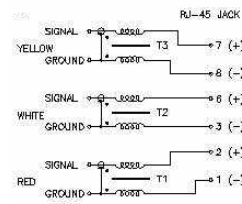
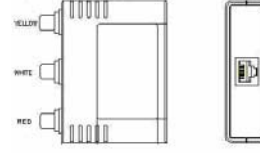
**Model 50-7725**

### Component Video Y/Pb/Pr



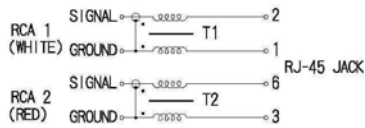
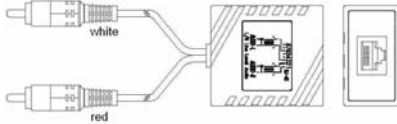
**Model 50-7720**

### Composite Video, L/R Line Level Audio



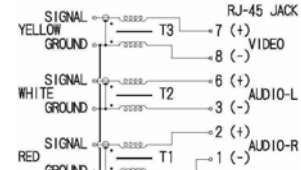
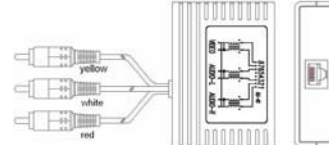
**Model 50-7730**

### L/R Line Level Audio



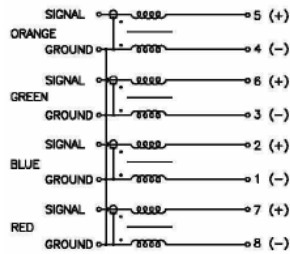
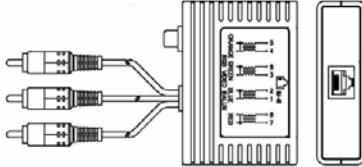
**Model 50-7724**

### Composite Video, L/R Line Level Audio



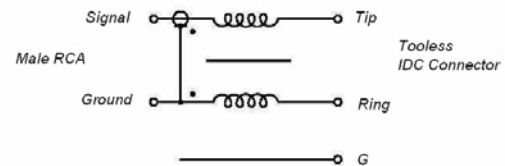
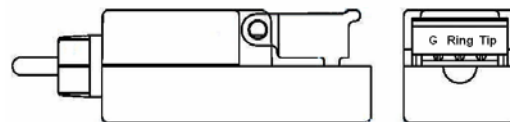
**Model 50-7732**

### Component Video Y/Pb/Pr + Digital Audio



**Model 50-7722**

### Line Level Audio



**Model 50-7742**