

MCM CUSTOM AUDIO

Video to Cat5 Baluns

Overview

These baluns allow security system installers to take advantage of Cat5 (or higher) cable for interconnecting cameras, monitors, video recording equipment, and other components over long distances. With these baluns, composite video signals 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

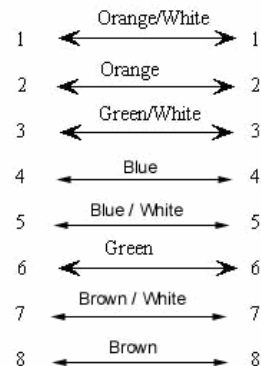
in place. In new construction, take advantage of the smaller size and lower cost of Cat5 cable when distributing signals throughout the structure. Each balun accepts standard RJ45 male connectors, is completely passive and requires no power.

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. Typically, a 1000' can be expected, based on the use of Cat5 cable. 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. Usable distance for power (applicable models) will vary upon the current load of the device and voltage range, as higher current loads will yield greater voltage drop. To reduce this voltage drop, two pairs of the Cat5 cable are paralleled to increase effective wire gauge.

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