

Wall Mount Balun Fixture and Surface Mount Balun Plate

Application Guide

Version 1.01

MuxLab

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Purpose

The purpose of this document is to explain MuxLab's approach mounting baluns on or into a wall surface.

Problem

In many custom audio-video installations, there is a requirement to connect the AV equipment directly to the wall or desk via short audio-video cables as opposed to connecting a balun to the equipment and running a Cat5 line cord to a modular outlet. The reason for this approach is primarily aesthetic. By connecting the AV equipment directly to a wall or desktop outlet via traditional audio-video cable, the installation provides a neater and more attractive appearance.

The problem is that "all-in-one" wall-mount baluns tend to be harder to source due to their proprietary design. Most wall-mount solutions tend to manufacturer the entire balun in a single enclosure. Due to the introduction of many new balun variations, it is difficult to ensure that every balun option is also available as a wall-mount version. Unfortunately, installers must stock two (2) lines of baluns; one for structured cabling systems and one for in-wall AV systems.

Solution

MuxLab's solution to the problem is to provide two (2) basic accessories that are easy to stock and which support the entire line of AV baluns in the line. The two (2) accessories are the Wall Mount Balun Fixture (500910) and the Surface Mount Balun Plate (500915). Installers and contractors can rely on easy access to balun options and are able to apply them to wall or surface mount applications on-the-fly and on-demand. There is no need to install or stock completely different products each time a job contract comes up.

In this manner, installers and contractors can minimize their parts requirement and optimize their parts inventory, tailoring it to whichever application is required. Furthermore the baluns are sealed thereby minimizing exposure to dust and moisture.

Wall-Mount Balun Fixture

MuxLab's wall-mount solution is Decora® compatible and allows any square MuxLab balun to be mounted in-wall and covered with any available Decora style plates.



The open design allows the installation to be serviced and modified more easily. For example if the AV configuration changes, the balun can be replaced by a different model without having to remove the fixture or to source a different proprietary wall balun. Furthermore, distributors, installers and contractors do not have to carry or stock multiple balun types...one accessory fits all in a structured cabling system.

Support for Single or Multi-gang rings

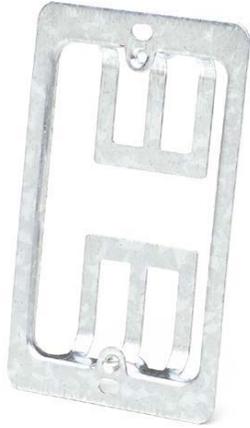
The modular design of the Wall Mount Balun Fixture allows it to be used in single or multi-gang configurations. By sourcing the appropriate mud ring and wall plate, installations with one (1) or more fixtures may be designed.



<http://www.hometech.com/techwire/wallboxlv.html>

Installation

The Wall Mount Balun Fixture may be installed in various scenarios including podiums, drywall partitions and AV furniture cut-outs. The following sequence of photos illustrates a typical installation in an audio-video cart.







Step 2: Install mud ring on outlet.

Step 3: Install balun into Wall Mount Balun Fixture.

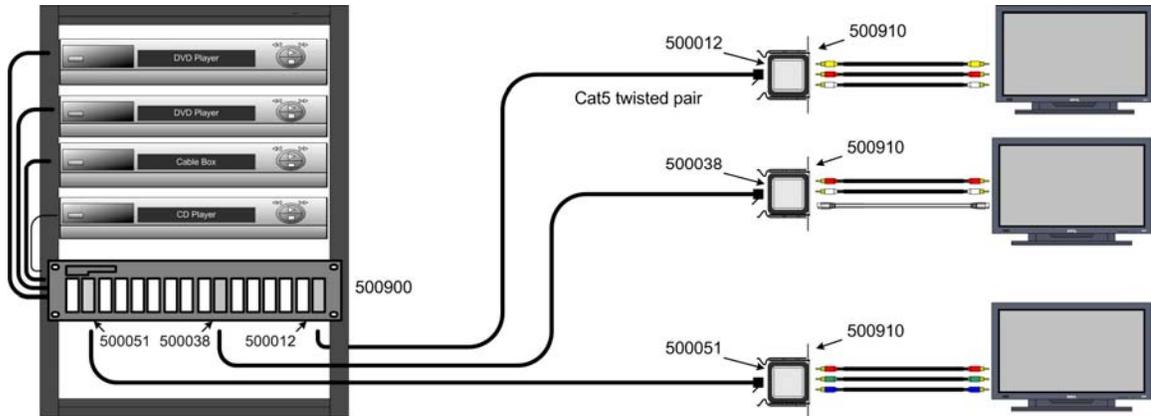
Step 4: Terminate Cat5 cable on Balun.

Step 5: Attach Wall Mount Balun Fixture to mud ring.

Step 6. Attach Decora wall plate to Wall Mount Balun Fixture.

Typical Application

The Wall Mount Balun Fixture may be installed in various configurations. The following are a few examples: Lecterns and Podiums, AV Carts, Conference tables, Drywall installation, AV Credenzas, Projector stands. The following diagram shows a typical application.



Choice of Wall Plates

MuxLab's Wall Mount Balun Fixture offers the flexibility of choosing the right color wall plate from the many sources in the market. Below is a selection from Homotech.com.



<http://www.homotech.com/techwire/le-wallplates.jpg>

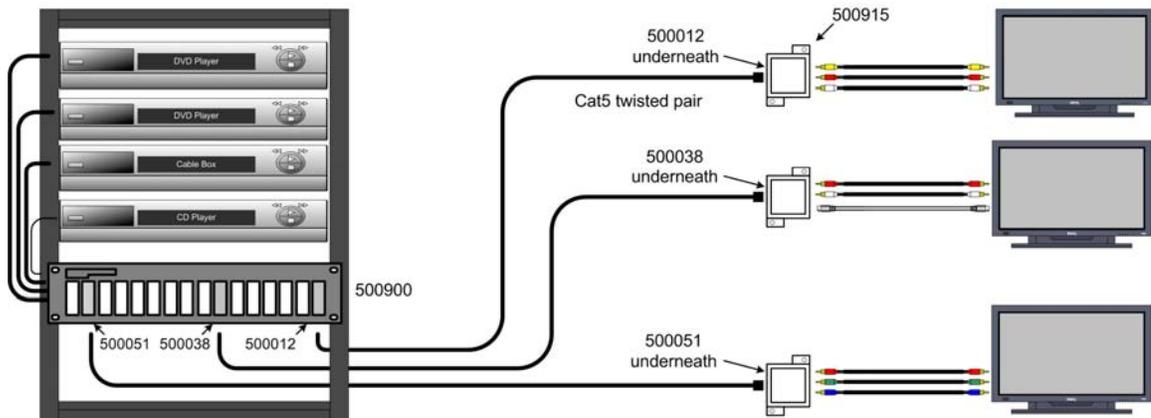
Surface-Mount Balun Plate

The Surface Mount Balun Plate allows one (1) square MuxLab balun to be securely mounted to any surface.



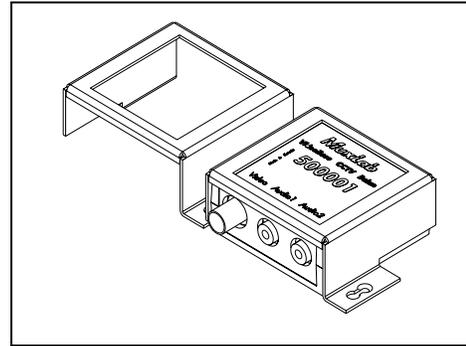
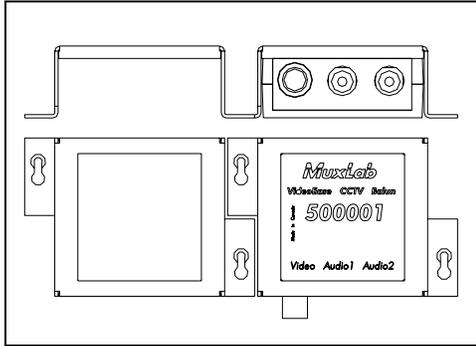
Typical Applications

The Surface Mount Balun Plate may be installed in various configurations. The following are a few examples: Brick, wood and cement block surfaces, Lecterns and Podiums, AV Carts, Conference tables, Drywall installation, AV Credenzas, Projector stands.



Space Efficiency

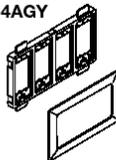
The Surface Mount Balun Plate has been designed for space efficiency. The product's mounting ears have been designed to allow multiple plates to be installed as close to each other as possible as shown in the following diagrams.



Wiremold™ Compatibility

Based on information from Wiremold™ and in response to a MuxLab customer enquiry, the 500910 (and balun) may be installed on to the Wiremold WSA07-4 Device Mounting Bracket and Trim Ring. The dimensions of the WSA07-4 support a Leviton/Decora fixture and the 500910 is Leviton/Decora-compatible. The Wiremold 5507R Rectangular Faceplate is the Decora-compatible faceplate that fits on to WSA07-4 after the 500910 is installed. Also, the 500910 is within the depth limits of the Wiremold WSA42-4 WallSource Box. Excerpts from the Wiremold catalog are shown below.

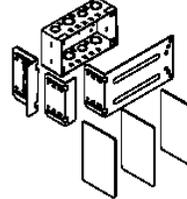
WSA07-4A
WSA07-4AWH
WSA07-4ABK
WSA07-4AG
WSA07-4AGY



Device Mounting Bracket & Trim Ring – Self-leveling bracket accommodates a wide variety of electrical and communications devices. The trim ring hides the holecut to give the box a finished look. For use with: 5507 Series Faceplates, Ortronics® TracJack & Series II Modules, Pass & Seymour Inserts and Wiremold Open System Communication Modules.

Cat. No.	L	W	Gang
WSA07-4A*	11 1/4" [286mm]	7" [177mm]	4

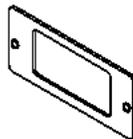
WSA42-4**



WallSource Box, Dividers, Mounting Brackets – Slide-in dividers separate the box for power and communication services. Adjustable mounting brackets offer flexibility to flush mount box in 1/2", 5/8", 1", and 1 1/4" [12.7mm, 15.9mm, 25mm, and 32mm] wall thicknesses.

Cat. No.	L	W	D	Gang	Trade Size KOs
WSA42-4	9 3/16" [233mm]	5" [127mm]	3 1/4" [83mm]	4	1/2, 3/4, 1, 1 1/2

5507R*



Rectangular Faceplate – For covering rectangular style devices.

Conclusion

As the custom AV market grows, the need for more sophisticated cabling solutions also grows. By standardizing on MuxLab balun models and coupling them to versatile mounting accessories, custom AV installations can be designed and managed more efficiently.

For more information about how MuxLab products may be applied to custom audio-video installations, please contact MuxLab Customer Technical Support or visit MuxLab's website at www.muxlab.com.

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