

**VideoEase**

***Using MuxLab Products with  
Multimedia Feed-Thru Couplers***

***Application Guide***

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***MuxLab***

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## Purpose

The purpose of this document is to explain how to apply MuxLab audio-video baluns to multimedia outlet wiring.

## Overview

In many 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 appears neater.



MuxLab products may be applied to this approach by installing the appropriate MuxLab balun behind the wall outlet using multimedia feed-thru couplers. Feed-thru couplers pass the audio-video cable connector through the outlet so that they may be accessed behind the wall. In order to support Cat5, an audio-video balun must be connected behind the wall. The result is an aesthetically pleasing installation that supports Cat5 behind the wall.



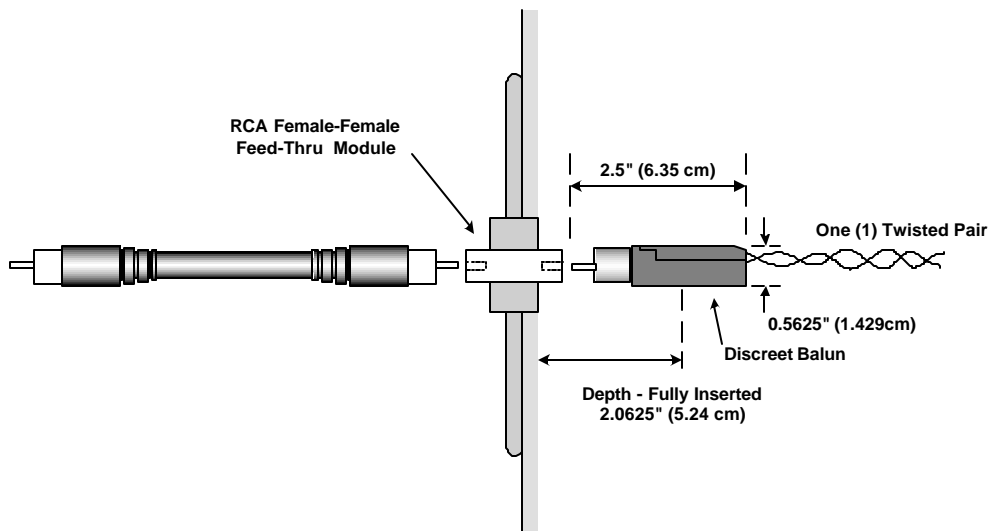
## Multimedia Feed-Thru Modules

MuxLab Audio-Video Baluns work in conjunction with third party multimedia feed-thru modules. The main types are; Keystone and Decora. The following are some typical modules available on the market.

<b>Stereo Audio or Digital Audio</b>	
<b>Composite Video (RCA)</b>	
<b>Component Video</b>	
<b>VGA</b>	
<b>S-Video</b>	
<b>S-Video and Stereo Audio</b>	
<b>CATV/Broadband Video</b>	
<b>Composite (BNC)</b>	

## Typical Installation

In this application, MuxLab audio-video baluns are connected to the back of the feed-thru module. A standard RCA coax jumper cable is used to connect the equipment to the front of the wallplate. Since the balun adds to the depth, one of the issues to consider is the amount of clearance that is available behind the module. Usually this is not a problem since wiring codes do not require a junction box for low-voltage services. The following diagram illustrates a typical connection with approximate dimensions for balun depth and height.



## Sources – Multimedia Feed-Thru Couplers

The following are some of the companies offering multimedia feed-thru couplers.

Company	Website	Product
Leviton	<a href="http://www.levitonvoicedata.com/">http://www.levitonvoicedata.com/</a>	QuickPort Audio/Video Cable Connectors
Hubbell	<a href="http://www.hubbell.com/">http://www.hubbell.com/</a>	Modular Inserts
Ortronics	<a href="http://www.ortronics.com/">http://www.ortronics.com/</a>	
Panduit	<a href="http://www.panduitncc.com/">http://www.panduitncc.com/</a>	
ICC	<a href="http://www.icc.com">http://www.icc.com</a>	
Unicom	<a href="http://www.unicomlink.com/#">http://www.unicomlink.com/#</a>	
Signamax/AESP	<a href="http://www.signamax.com/">http://www.signamax.com/</a>	Multimedia feed-thru modules
Siemon	<a href="http://www.homecabling.com/">http://www.homecabling.com/</a>	

The tradenames mentioned in this table are registered trademarks of their respective companies.

## Conclusion

As the multimedia market grows, the need for more sophisticated cabling solutions also grows. 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](http://www.muxlab.com).

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