Specifications

Environment	70V spe	akar ev	tom die	tribution	OVer m	ultiple z	ones			
	70V speaker system distribution over multiple zones									
Devices	Bridged amplifier outputs.									
Maximum Input Power	100 W from 4 ohms source.									
Nominal Output Voltage	70V									
Frequency response	20 – 20,000 Hz (+/- 3 dB)									
Cabling Requirement	Any gauge speaker wire of 18 AWG or lower.									
Connectors included	One (1) removable 4 pin terminal block plug for input, accept 12-24AWG.									
	One (1) removable 2 pin terminal plug for output, accept 12-24 AWG.								З.	
Maximum Distance	Speaker Cable Transmission Distance as a Function of Conductor Size vs. Loss									
						n Cable (% Lo				
		4	Ohm Speak 21%	er 50%	11%	Ohm Speak	er 50%	11%	70V Speaker 21%	50%
	AWG	0.5	1.0	3.0	0.5	1.0	3.0	0.5	1.0	3.0
	6	277 ft	571 ft	1930 ft	554 ft	1141 ft	3859 ft	13580 ft	27965 ft	94548 ft
	8	174 ft 110 ft	359 ft	1214 ft 764 ft	349 ft	718 ft	2428 ft	8546 ft	17598 ft 11072 ft	59498 ft
Reference only between 12 and 24	10	69 ft	226 ft 142 ft	764 ft 480 ft	219 ft 138 ft	452 ft 284 ft	1528 ft 959 ft	5377 ft 3376 ft	6952 ft	37434 ft 23505 ft
AWG wire in the table to determine	14	43 ft	89 ft	302 ft	87 ft	179 ft	604 ft	2127 ft	4380 ft	14809 ft
allowed distances for the 755-AMP-	16	27 ft	55 ft	185 ft	53 ft	110 ft	371 ft	1305 ft	2687 ft	9085 ft
	18	17 ft	35 ft	117 ft	34 ft	69 ft	234 ft	823 ft	1694 ft	5726 ft
RX and 500217.	20	11 ft	22 ft 13 ft	74 ft 46 ft	21 ft	44 ft	147 ft	518 ft	1068 ft	3610 ft
	22	7 ft 4 ft	13 ft	46 ft 29 ft	13 ft 8 ft	27 ft 17 ft	91 ft 57 ft	321 ft 202 ft	661 ft 417 ft	2234 ft 1409 ft
				per of feet of cab						1100 11
Power requirement	None (passive device)									
Temperature	Operating : 32° to 90°F (0° to 40°C) Storage: -4° to 185°F (-20° to 85°C)									
Humidity	Maximum 90% (non-condensing)									
Enclosure	Steel, painted black.									
Dimensions	4.33" x 5.51" x 1.97" (11 x 14 x 5 cm)									
Weight	3.08lbs (1.4kg)									
Warranty	3 Years									
Ordering Information	500755-70V 70V Audio Converter									
Compatible Products	500755-AMP-RX and 500217									
Accessories	500917 Mounting Brackets.									
	500920 16-Port Rackmount Transceiver Chassis.									



70V Audio Converter 500755-70V Quick Installation Guide

Overview

The 70V Audio Converter (500755-70V) is compatible with the MuxLab Audio/AMP over IP Receiver with AMP 50W/CH (500755-AMP-RX) and the Audio Zone Amplifier 100W (500217). The unit is a passive device and can be easily mounted anywhere near the amplifier that it is to be connected with. It adapts a standard 4 ohm amplifier output that has been configured in bridge mode (mono) to a 70V speaker system. 70V speaker systems allow multiple speakers to be daisy-chained together over much longer distances than traditional 4 ohm speakers can accommodate.

The unit supports a high-pass filter allowing a 70V transformer to connect to any power amplifier, and a low pass filter to reduce noise generate by class-D amplifiers.

Applications Audio Distribution Systems

> 8495 Dalton Rd, Montreal, Quebec, Canada. H4T 1V5 Tel: (514) 905-0588 Fax: (514) 905-0589 Toll Free (North America): (877) 689-5228 E-mail: videoease@muxlab.com URL: www.muxlab.com

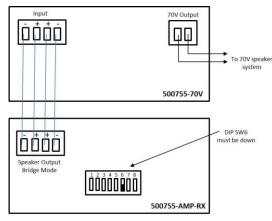
Installation

The source device can be the MuxLab 500755-AMP-RX, 500217 or any amplifier able to drive a 4 ohm load.

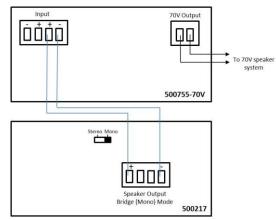
On the 70V output connector, only connect 70V speakers in parallel adding up to a maximum of 100W.

There are no user-serviceable parts inside the unit. Included terminal block plugs can be removed to ease the installation.

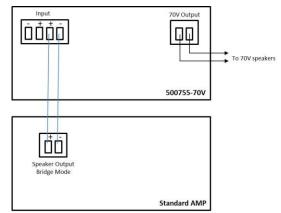
Typical connection to the 755-AMP-RX:



Typical connection to the 500217:



Typical connection to a Standard Amplifier:



- 1. The amplifier must be turned Off before installing the wiring.
- 2. Use wires with at least 18 AWG or larger (up to 12 AWG) to connect the amplifier binding posts to the 70VAudio Converter. Any standard speaker or electrical wire is acceptable. Limit the distance to less than 15ft (5m) between the unit and the amplifier.
- 3. Use of smaller gauge wire to connect 70V speakers is ok. See the specification table for acceptable distances, based on wire gauge.

Troubleshooting

The following table describes possible symptoms, probable causes and solutions regarding the unit:

Symptom Probable Cause		Possible Solutions					
No audio	No continuity	Check continuity on each pair.					
Weak or bad audio	Check amplifier specification. Check speaker transformer.	Be sure that speaker supports a 70V input.					

If you still can't diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).