



## Model A95U User Guide

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### MODEL A95U LINE MATCHING TRANSFORMER

This reversible transformer matches low- or high-impedance microphones to high- or low-impedance inputs. The transformer permits use of very long microphone cables with either low- or high-impedance microphones. However, when connecting a high-impedance microphone, limit the cable length between the microphone and the transformer to 4.6 m (15 ft). The cable from the transformer to the low-impedance input can be any desired length.

The transformer prevents high-frequency loss, level loss, and pickup of noise and hum. The A95U comes furnished with a three-pin XLR connector on the low-impedance end, with a 1/4 in. phone plug and phone jack adapter on the high-impedance end.

#### **Case**

Full magnetic shield, steel with gray enamel finish

#### **Dimensions**

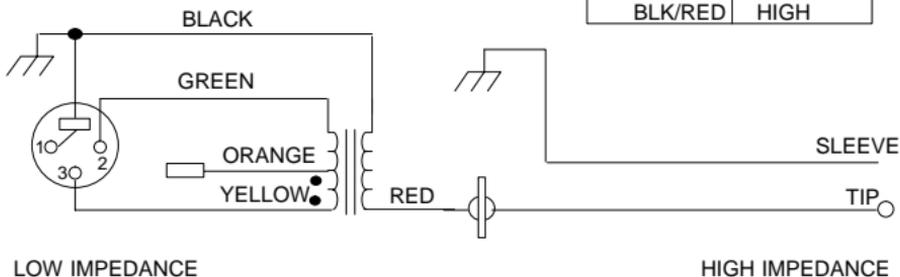
19 mm ( $3/4$  in.) diameter; 89 mm ( $3\frac{1}{2}$  in.) long without adapters

## LOW-IMPEDANCE SELECTION

The A95U comes factory preset with the low-impedance end intended for use with microphones or inputs rated 75 to 300 ohms. For microphones or input rated at 19 to 75 ohms, make the following changes.

1. Remove the low-impedance XLR plug by turning the lock screw counterclockwise and withdrawing the XLR plug from the case.
2. Unsolder the YELLOW lead from pin 3 and insulate the bare wire at the end of the lead with the insulator from the ORANGE lead.
3. Solder the ORANGE lead to pin 3.
4. Rotate the XLR plug three turns to twist the leads, then replace the XLR plug in the case. Tighten the lock screw to secure the XLR plug in place (turning clockwise).

IMPEDANCES	
GREN/YLW	75-300 $\Omega$
GREN/ORN	19-75 $\Omega$
BLK/RED	HIGH



LOW IMPEDANCE

HIGH IMPEDANCE

## SPECIFICATIONS

### Frequency Response

Flat, 20 Hz to 20 kHz. Response at 20 Hz no more than 3 dB down from flat.

### Impedance

Low impedance: 75 to 300  $\Omega$  (supplied) or 19 to 75  $\Omega$

Medium impedance: High (41 k $\Omega$  with 150- $\Omega$  source on 75-to-300  $\Omega$  winding.)

### DC Resistance

Low impedance: 75 to 300  $\Omega$  — 75  $\Omega$   
19 to 75  $\Omega$  — 37.5  $\Omega$

High impedance: 4300  $\Omega$

### Voltage Ratio 19 to 75 $\Omega$ 75 to 300 $\Omega$

Low impedance to high impedance: +28 dB +22 dB

High impedance to low impedance: -28 dB -22 dB

### Maximum Recommended Input Levels

<u>Source Impedance</u>	<u>Winding Being Driven</u>	<u>Maximum Level</u>
33 $\Omega$	19 to 75 $\Omega$	0.5 V
200 $\Omega$	75 to 300 $\Omega$	1.0 V
600 $\Omega$	High impedance	10 V
5,000 $\Omega$	High impedance	10 V
33,000 $\Omega$	High impedance	10 V

## **SHIPPING INSTRUCTIONS**

Carefully repack the unit, have it insured, and return it prepaid to:

Shure Incorporated  
Attention: Service Department  
222 Hartrey Avenue  
Evanston, Illinois 60202-3696

If outside the U.S.A., return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.



***SHURE Incorporated Web Address: <http://www.shure.com>***

***222 Hartrey Avenue, Evanston, IL 60202-3696, U.S.A.***

***Phone: 847-866-2200 Fax: 847-866-2279***

***In Europe, Phone: 49-7131-72140 Fax: 49-7131-721414***

***In Asia, Phone: 852-2893-4290 Fax: 852-2893-4055***

***Elsewhere, Phone: 847-866-2200 Fax: 847-866-2585***