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## A95U -- Line Matching Transformer

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### General Description

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 1/2 in.) long without adapters

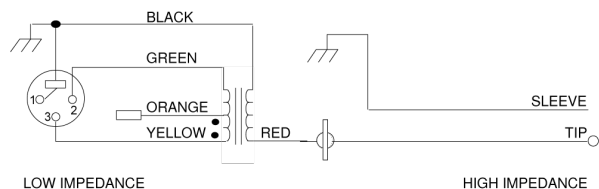
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### Low-Impedance Selection

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 counter-clockwise 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



### Frequency Response

20 to 20 kHz

### Impedance

Low Impedance	75 to 300 $\Omega$
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

Low-impedance to high-impedance	19-75 $\Omega$	+28 dB
	75-300 $\Omega$	+22 dB
High-impedance to low-impedance	19-75 $\Omega$	-28 dB
	75-300 $\Omega$	-22 dB

## Maximum Recommended Input Levels

Source Impedance	Winding Being Driven	Maximum Level
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

## LIMITED WARRANTY

Shure Incorporated (“Shure”) hereby warrants to the original consumer purchaser only that, except as otherwise specified below, this product will be free in normal use of any defects in materials and workmanship for a period of two (2) years from the consumer’s original date of purchase directly from Shure or from a Shure-authorized reseller.

Any rechargeable batteries contained in or packaged with this product are so warranted for a period of one (1) year from the consumer’s original date of purchase. However, rechargeable batteries are consumable and their capacity will be reduced over time based on temperature, amount of time in storage, charging cycles, and other factors; hence reduction in battery capacity does not constitute a defect in material or workmanship.

At its sole option, Shure will repair or replace the defective product and promptly return it to you. In order for this warranty to be valid, the consumer must, at the time the product is returned, provide proof of purchase in the form of the original purchase receipt directly from Shure or from a Shure-authorized reseller. If Shure elects to replace the defective product, then Shure reserves the right to replace the defective product with another product of the same model or a model of at least comparable quality and features in Shure’s sole determination.

If you believe this product is defective within the warranty period, carefully repack the unit, insure it and return it with proof of purchase, postage prepaid, to Shure Incorporated, Attention: Service Department, at the address below.

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