



Model A15BT User Guide BRIDGING TRANSFORMER

The A15BT matches, bridges, or isolates balanced and unbalanced devices of different impedances and levels.

Impedance: XLR socket (Female), 33,000 Ω
XLR plug (Male), 7500 Ω , easily converted to 600 Ω .

Unbalancing: Either end can be unbalanced by connecting pins 1 and 3.

Voltage difference: From 33,000 Ω to 7500 Ω , 6.4 dB
From 33,000 Ω to 600 Ω , 17.4 dB.

MEDIUM-IMPEDANCE SELECTION

As supplied, the A15BT XLR plug is at 7500 Ω . To convert to 600 Ω , refer to Figure 1 and proceed as follows:

1. Remove the three-pin plug element by turning the screw counterclock-wise and withdrawing the element from the case.
2. Remove the GREEN lead pin jack from pin 3, and insulate the jack and bare lead.
3. Remove the tape from the pin jack on the WHITE lead and push the jack firmly onto pin 3.
4. Replace the plug element in the housing and fasten the screw firmly in place (turn clockwise).



TYPICAL APPLICATIONS

To connect the 600 line output of a preamplifier, mixer, or recorder to a high-level, high-impedance, unbalanced (Aux) input:

Connect the 600 Ω output to the 33,000 Ω XLR socket of the A15BT. Unbalance the XLR plug on the A15BT and convert it to 7500 Ω or 600 Ω to provide the proper level and best signal-to-noise ratio. Connect the A15BT to the Aux input. In this configuration, the A15BT "bridges" the 600 Ω line output. Refer to the table on the back page for the maximum input level to the A15BT.

To match a high-impedance microphone output to a medium-impedance (approximately 10,000 Ω) input on a reel-to-reel or cassette recorder: Unbalance both ends of the A15BT. Connect the microphone output to the 33,000 Ω XLR socket. Connect the 7,500 Ω XLR plug to the recorder.

For an unbalanced Aux input to accept a balanced low-impedance output: Unbalance the 33,000 Ω XLR socket on the A15BT and connect it to the Aux input. Convert the XLR plug to 7500 Ω or 600 Ω and connect it to the balanced low-impedance device.

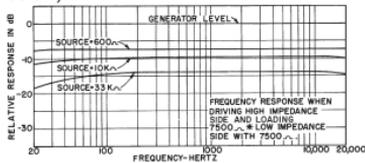
When a balanced 600 line output is needed on a unit with an Aux output (such as the Shure SCM268):

Unbalance the A15BT 33,000 Ω XLR socket and connect it to the Aux output. The A15BT XLR plug offers a balanced line output at both 600 Ω (at about a -20 dBm level) and 7500 Ω .

SPECIFICATIONS

Frequency Response

20 to 20,000 Hz (See Figure below)



* FOR 600 Ω LOAD WITH INTERNAL WIRING CHANGED TO 600 Ω , ABOVE CURVES APPLY BUT ALL LEVELS WILL BE APPROXIMATELY 11 dB LOWER.

TYPICAL FREQUENCY RESPONSE

Impedance

XLR Pin Connector (M):	7500 Ω or 600 Ω
XLR Socket Connector (F):	33,000 Ω

Voltage Ratio

Medium-impedance to high-impedance:	<u>7500 Ω</u>	<u>600 Ω</u>
	+6.4 dB	+17.4 dB
High-impedance to medium-impedance:	-6.4 dB	-17.4 dB

Driving Source

Impedance (ohms)

600

600

600

7,500

7,500

33,000

Winding Being

Driven (ohms)

600

7,500

33,000

7,500

33,000

33,000

Maximum

Level (Volts)

0.5

2.5

6.0

1.5

5.0

5.0

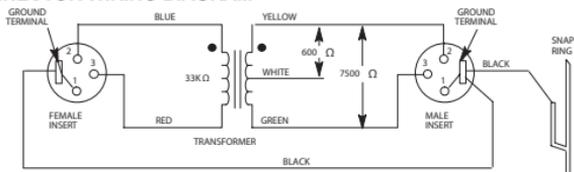
Case

Full magnetic shield, steel with gray enamel finish

Dimensions

19 mm (3/4 in.) diameter; 89 mm (3 1/2 in.) long

CONNECTOR WIRING DIAGRAM



LIMITED WARRANTY

Shure Incorporated ("Shure") hereby warrants to the original consumer purchaser only that 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. 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.

Outside of the United States, return the product to your dealer or Authorized Service Center. Addresses are listed on www.Shure.com or can be obtained by contacting Shure at the address listed below.

This warranty is not transferable. This warranty does not apply in cases of abuse or misuse of the product, use contrary to Shure's instruction, ordinary wear and tear, an act of God, negligent use, purchase from a party other than Shure or a Shure-authorized reseller, unauthorized repair, or modification of the product.

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This warranty does not restrict the rights of the consumer mandated under applicable laws.

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