

Input/Line Transformers

Models WMT-1A, TL100
& TL600



WMT-1A



TL600
TL100

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- Features**
- WMT-1A**
- Perfect impedance match between telephone line and amplifier
 - No wiring or soldering required
 - Easy mounting

- TL600 and TL100**
- Provides balanced 600-ohm or bridging input for power amplifier
 - Compact, plug-in design
 - Internal mumetal shielding

Description

WMT-1A

The Bogen Model WMT-1A transformer is designed especially for matching inputs from, or outputs to, a 600-ohm line. As an input-matching transformer, it may be used to connect telephone systems to most Bogen public address amplifiers for telephone paging. It also functions as an output-matching transformer in feeding program material over a 600-ohm telephone line for "music-on-hold" or for transmission to a local broadcast studio. It is compatible with any amplifier having a 25V output terminal.

Connections from the 600-ohm line are conveniently made to a three-screw terminal strip. Connection to the auxiliary input of the amplifier is provided by a shielded cable terminated in a phono plug. Provisions are included to connect the unit to a microphone input. A mounting location is included on C- and CT-Series amplifiers; the unit may also be mounted on a shelf with two screws. No wiring or soldering is required for mounting or making connections between the amplifier and the input or output lines.

TL600, TL100

The Bogen Models TL600 and TL100 transformers are compact plug-in units especially designed for use with power amplifiers.

Model TL600 matches the output of a 600-ohm telephone line to a Bogen power amplifier input. It may also be used to provide a 600-ohm output from a Bogen mixer-preamplifier. The TL100 provides a balanced one-to-one input match and isolation; its primary impedance will be the same value as total termination of the input impedance to the amplifier(s).

The transformer connections are terminated in a keyed nine-pin miniature plug which fits into a matching nine-pin female receptacle on the chassis of the preamplifier or power amplifier. The transformers feature internal mumetal shielding for hum reduction. They are cylindrical in shape, with a one-inch diameter and an overall length (including pins) of two inches.



Description	<p>WMT-1A Frequency response: 50Hz to 20KHz \pm2dB Sensitivity: Less than 0.1 volt across 600 ohm line required for full output power from average amplifier. Maximum level +20dBm Output: Approx. 1.73 volts output when connected across 25 volt output tap or WMT-1A Hi-Z output connection on a Bogen amplifier. Dimensions: 2-3/8"H x 2"W x 1-1/4"D Ship Weight: 1 lb.</p>	<p>TL600 & TL100 Function: <i>TL600</i> – matches balanced 600 ohm telephone line to input of power amplifier <i>TL100</i> – Provides balanced one-to-one input match and isolation Frequency Response: <i>TL600</i> – 20Hz to 20KHz, \pm1dB <i>TL100</i> – 20Hz to 15KHz, \pm2dB Hum Reduction: Mumetal shielding Construction: Cylindrical shape, keyed nine-pin miniature plug</p>
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Architects and Engineers Specifications	<p>WMT-1A The line-matching transformer shall be a Bogen Model WMT-1A, or equivalent, capable of matching either inputs from, or outputs to, a 600-ohm line. It shall provide a perfect impedance match between a 600-ohm balanced line and the high-impedance input of an amplifier, or the 25-volt output of an amplifier. Frequency response shall be \pm2dB from 50Hz to 20kHz. Less than 0.1 volt across 600-ohm line shall be required for full output power from an average amplifier (maximum level, +20dBm). Output shall be approximately 1.73 volts when connected across the 25-volt output tap or WMT-1A Hi-Z output connection of a Bogen amplifier.</p> <p>Line input or output connections from the 600-ohm line shall be made to a three-screw terminal strip. Connection to the auxiliary input of an amplifier shall be by means of a shielded cable terminated in a phono plug. Provisions shall be included to connect the unit to a microphone input. The mounting bracket shall provide for the transformer to be mounted by means of two steel screws. The unit shall measure 2-3/8"H x 2"W x 1-1/4"D and the shipping weight shall be one pound.</p> <p>TL600 The line transformer shall be a Bogen Model TL600, or equivalent, and shall match a balanced 600-ohm zero level transmission line, or provide a 600-ohm output from a preamplifier. The secondary impedance shall be 10,000-ohms.</p> <p>The overall frequency response shall pass frequencies within \pm1dB from 20Hz to 20kHz. The unit shall incorporate mumetal shielding for hum reduction.</p> <p>The transformer connections shall terminate in a keyed nine-pin miniature plug, which shall fit into a matching nine-pin female receptacle on the Bogen power amplifier or preamplifier. The transformer shall be cylindrical in shape, with a one-inch diameter and the overall length (including pins) shall not exceed two-inches.</p> <p>TL100 The matching transformer shall be a Bogen Model TL100, or equivalent, and shall provide a balanced one-to-one input for matching and isolation. The primary impedance shall be the same value as the total termination of the input impedance to the amplifier(s). The frequency response shall pass frequencies within \pm2dB from 20Hz to 15kHz. The unit shall incorporate mumetal shielding for hum reduction.</p> <p>The transformer connections shall terminate in a keyed nine-pin miniature plug, which shall fit into a matching nine-pin receptacle on the Bogen power amplifier or preamplifier. The transformer shall be cylindrical in shape with a one-inch diameter and the overall length (including pins) shall not exceed two inches.</p>
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