

INSTRUCTION MANUAL

DA-33 Wideband Amplifier

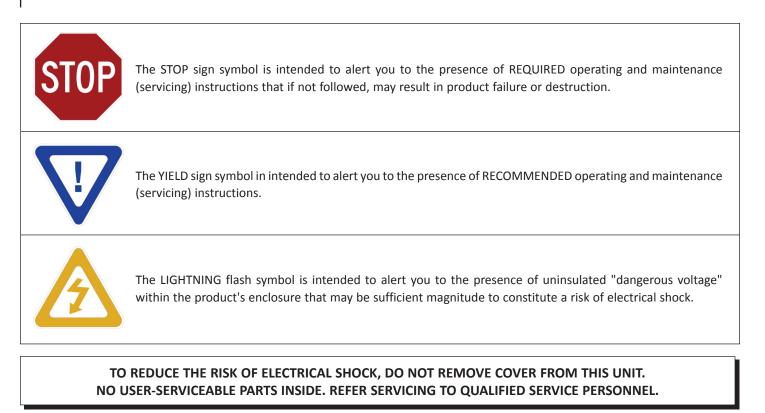
Stock No. 4675A

Description:

The DA-33 features a wide frequency bandwidth of 0.5 MHz to 300 MHz, 36 dB gain and 18 dB of continuously variable gain control range. The DA-33 is ideal as a headend sub-channel return amplifier or on shipboard distribution systems requiring AM, shortwave and communications bands amplification.

Features:

- AM, Shortwave, Sub-Channel Amplification (0.5 MHz to 300 MHz)
- Externally Accessible Test Points Permit In-Service Testing.
- Aluminum Chassis Designed for Superior Heat Dissipation to Insure Component Reliability.
- Exceeds FCC Specs for Both Conducted and Radiated Interference @ Full Output Level.
- External Fuse for Ease of Replacement.
- LED Pilot Light.
- Line Transient Protection.
- Hybrid IC Circuitry for High Output with Low Distortion.
- Exceptional Temperature Stability Range of -20° C to +60° C
- Designed for Critical Applications Requiring High Gain.
- Front Panel Gain Control for Easy Adjustment



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE

NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV System Installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Safety Instructions



YOU SHOULD ALWAYS FOLLOW THESE INSTRUCTIONS TO HELP ENSURE AGAINST INJURY TO YOURSELF AND DAMAGE TO YOUR EQUIPMENT.

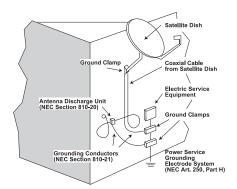
- Read all safety and operating instructions before you operate the unit.
- Retain all safety and operating instructions for future reference.
- Heed all warnings on the unit and in the safety and operating instructions.
- ► Follow all installation, operating, and use instructions.
- Unplug the unit from the AC power outlet before cleaning. Use only a damp cloth for cleaning the exterior of the unit.
- ▶ Do not use accessories or attachments not recommended by Blonder Tongue, as they may cause hazards, and will void the warranty.
- ▶ Do not operate the unit in high-humidity areas, or expose it to water or moisture.
- Do not place the unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious personal injury and damage to the unit. Install the unit only in a mounting rack designed for 19" rack-mounted equipment.

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Safety Instructions - continued

- Do not block or cover slots and openings in the unit. These are provided for ventilation and protection from overheating. Never place the unit near or over a radiator or heat register. Do not place the unit in an enclosure such as a cabinet without proper ventilation. Do not mount equipment in the rack space directly above or below the unit.
- Operate the unit using only the type of power source indicated on the marking label. Unplug the unit power cord by gripping the plug, not the cord.
- The unit is equipped with a three-wire ground-type plug. This plug will fit only into a ground-type power outlet. If you are unable to insert the plug into the outlet, contact an electrician to replace the outlet. Do not defeat the safety purpose of the ground-type plug.
- Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Be sure that the outdoor components of the antenna system are grounded in accordance with local, federal, and National Electrical Code (NEC) requirements. Pay special attention to NEC Sections 810 and 820. See the example shown in the following diagram:



- We strongly recommend using an outlet that contains surge suppression or ground fault protection. For added protection during a lightning storm, or when the unit is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the lines between the unit and the antenna. This will prevent damage caused by lightning or power line surges.
- Do not locate the antenna near overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing the antenna, take extreme care to avoid touching such power lines or circuits, as contact with them can be fatal.
- Do not overload wall outlets or extension cords, as this can result in a risk of fire or electrical shock.
- Never insert objects of any kind into the unit through openings, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.
- Do not attempt to service the unit yourself, as opening or removing covers may expose you to dangerous voltage and will void the warranty. Refer all servicing to authorized service personnel.
- Unplug the unit from the wall outlet and refer servicing to authorized service personnel whenever the following occurs:
 - □ The power supply cord or plug is damaged;
 - Liquid has been spilled, or objects have fallen into the unit;
 - □ The unit has been exposed to rain or water;
 - □ The unit has been dropped or the chassis has been damaged;
 - □ The unit exhibits a distinct change in performance.
- When replacement parts are required, ensure that the service technician uses replacement parts specified by Blonder Tongue. Unauthorized substitutions may damage the unit or cause electrical shock or fire, and will void the warranty.
- Upon completion of any service or repair to the unit, ask the service technician to perform safety checks to ensure that the unit is in proper operating condition.

Returning Product for Repair (or Credit)

A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: **www.blondertongue.com** for further information. 4 DA-33

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Specifications

RF

Frequency Range: 0.5-300 MHz Channel Loading: 35 Channels Flatness: +/- 1 dB Full Gain: 36 dB Noise Figure: 5.5 dB Output Level: +47 dBmV Composite Triple Beat: -71 dB Cross Modulation: -55 dB Hum Modulation: -60 dB Return Loss Input: 16 dB Output: 12 dB

General

Power Requirements: 105 to 130 VAC, 60 Hz Operating Temperature: -40 to +65 degrees C

Mechanical

Dimensions (L x W x H): 11.5" x 7.125" x 3.25" Weight: 5.75 lbs.

Connectors:

RF In/Out: F Female In/Output -30 dB Test Points: F Female

