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## INSTRUCTION MANUAL

# ACA-35-1000

## Apartment Complex Amplifier

**Stock No's.: 5470**

### Description

The ACA-35-1000 provides continuous coverage of all frequencies from 40 MHz to 1000 MHz. This indoor amplifier covers the full VHF and UHF bands as well as all CATV channels.

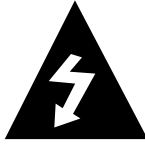
Utilizing push-pull amplifier stages and surface mounted devices, this state-of-the-art product is the ideal amplifier if distribution in the system includes UHF signals. Packaged in a compact 9" x 5-3/8" x 2" chassis, the amplifier has 35 dB gain and superior distortion performance. A gain control is provided for adjusting the output level to meet the distribution system requirements.

### Features

- Surface Mount Technology
- Temperature Stability Range of 0° to +50°C
- Front Panel Gain Control for Easy Adjustment
- Low 40 MHz Band Edge
- Chassis Designed for Superior Heat Dissipation to Insure Component Reliability
- Line Transient Protection
- Compact Size for Minimum Mounting Space
- Input/Output Test Point (-20 dB)

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The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be sufficient magnitude to constitute a risk of electrical shock to persons.



**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

## NOTE TO CATV INSTALLERS

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.

### Specifications (typical except as noted)

#### Electrical

Bandwidth: 40 to 1000 MHz  
 Flatness (40 to 1000 MHz):  $\pm 1$  dB  
 Maximum Output Level Per Channel @ 70 Channel Load:  
 40 dBmV  
 CTB: -57 dB  
 CSO: -59 dB  
 Gain: 35 dB  
 Gain Control Range: 16 dB min.  
 Noise Figure at Full Gain (50 to 1000 MHz): 11 dB max.  
 Return Loss Input: 12 dB, @ 75 Ohms  
 Output: 12 dB, @ 75 Ohms  
 Output Test Point: -20 dB

#### General

Power Requirements: 117 VAC, 60 Hz, 30W  
 Temperature Range: 0 to +50° C

#### Mechanical

Dimensions: 9 x 5-3/8 x 2 in (228 x 135 x 52 mm)  
 Shipping Weight: 3.0 lbs. (1.7 Kg)

#### Indicators

Power On: Red LED, On Case End

#### Connectors

In/Out: "F" Type, On Case End  
 Input/Output Test Point (-20 dB): "F" Type, On Case End

### Installation Precautions

PRECAUTION	REQUIREMENT
Ensure easy access to rack wiring.	Allow a minimum of 18 in. (50 cm) clearance behind the equipment rack(s).
Facilitate servicing and maintenance.	Allow a minimum of 36 in. (100 cm) clearance in front of equipment rack(s).
Avoid direct heating or air conditioning.	If unavoidable, use deflector plates.
AC power source outlets.	Locate equipment near sufficient outlets to provide power for test equipment and power tools.
Rack support.	Make certain rack supports are sufficiently rigid to support rack(s).
Building leakage.	Beware of dripping water onto equipment from leaky roofs, waveguide roof entries, and cold water pipe condensations.

### 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](http://www.blondertongue.com) for further information.



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