

# 1 to 4 Professional Bi-Directional Cable Amplifier

OWNER'S MANUAL — Please read before using this equipment.

Your RadioShack 1 to 4 Professional Bi-Directional Cable Amplifier is designed for use with a drop distribution cable TV (CATV) system that requires bi-directional transmission in the interactive network. It minimizes signal loss for long cable runs and also amplifies and distributes the signal smoothly to four Internet-access and pay-per-view services. The amplifier's high gain amplifies a weak signal to produce a good picture.



Its features include:

**54-1000 MHz Forward Path and 5-40 MHz Reverse Path** — this frequency range covers the 300-450 MHz Hyper-Band and provides excellent amplification for the forward path of a drop CATV system.

**FR-4 Glass Fiber PCB and Sophisticated SMT (Surface Mount Technology)** — provides reliable and excellent performance.

**High Stability Zinc Alloy Die-Cast Housing** — prevents radio-frequency interference and heat-sinking problems.

**WARNING:** To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

|  |  |   |
|--|--|---|
|   | <b>CAUTION</b><br>RISK OF ELECTRIC SHOCK. DO NOT OPEN. |  |
| <b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. |  |   |



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

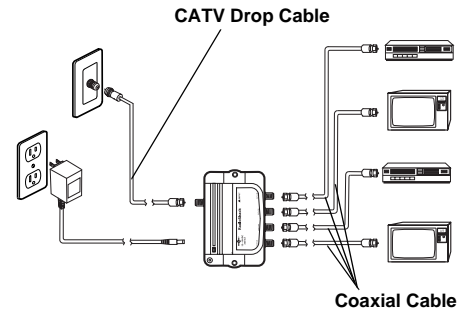


This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

**Important:** This amplifier is intended for indoor use only.

**Note to the CATV System Installer:** This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC, which 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.

## CONNECTIONS



**Caution:** Use only coaxial cable (not supplied) to make the connections. Your local RadioShack store carries suitable cable.

1. Remove the plastic cover from the input and output terminals.
2. Connect the CATV's drop cable to the amplifier's **INPUT** terminal.
3. Connect the amplifier's **OUT/+7 dB** terminal(s) to the 75 ohm input terminal of your TV, VCR, or dwelling network.
4. Connect the supplied AC adapter's barrel plug to the amplifier's **12-16 VDC 200mA** jack, then plug the AC adapter into a standard AC outlet. The amplifier's power indicator lights.

### Cautions:



You must use a Class 2 power source that supplies 12V DC and delivers at least 200 mA. Its center tip must be set to positive and its plug must fit the amplifier's **12-16V DC 200 mA** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the amplifier or the adapter.

- Always connect the AC adapter to the amplifier before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the amplifier.

### Notes:

- This amplifier is designed to amplify existing signals and to deliver a strong signal through multiple in-home connections. It will not improve a poor signal.
- To avoid signal loss, reflections, or "shadows" in your picture, output terminals that are not connected to a receiver should be terminated using the supplied terminating resistors.

# SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Frequency Range.....     | 54–1,000 MHz (Forward Path)<br>5–40 MHz (Return Path) |
| Gain.....                | 7 dB +2 /-1 dB (Forward Path)                         |
| Insertion Loss.....      | 7dB (Return Path)                                     |
| Return Loss.....         | 18 dB (Forward Path/Return Path)                      |
| Isolation (Out-Out)..... | 24 dB (Forward Path)<br>30 dB (Return Path)           |
| Power Source.....        | 12–16V DC 200 mA AC Adapter                           |
| DC Current.....          | 130 mA Maximum  |
| Impedance.....           | 75 Ohms   |
| Housing Material.....    | Zinc Die-Casting with Nickel-Plated Finish            |
| Connector.....           | IN/OUT: "F" Female<br>DC IN: DC Power Jack for Plug   |
| Weight.....              | 1 lb 5 oz<br>(610 g)                                  |

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

## Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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