

SLx masthead amplifiers

27830R 15dB gain

27831R 26dB gain

Application

- Philex's SLx masthead amplifiers are designed as domestic UHF TV antenna preamplifiers. They are ideally used in areas of poor signal strength or when wishing to receive an out-of-area transmission.
- The 15dB gain masthead amplifier (27830R) is ideal for the majority of domestic installations.
- The 26dB gain masthead amplifier (27831R) should be used if long cable runs are necessary (the loss is greater than 5dB) or if the amplifier is connected to passive splitters feeding additional outlet ports.
- A 12V DC power supply (12V DC) must be connected to the amplifier via the download cable. This can be supplied either by a dedicated power supply unit (Philex's SLx PSU 27832R) or from a distribution amplifier with line-powering for a masthead amplifier, installed downstream of the preamplifier (Philex's SLx4 27820R, SLx6 27823R or SLx8 27824R).

Restrictions

- Do not use either masthead amplifier on systems feeding more than one household or (S)MATV systems.
- These products do not have through-line powering and are not intended to be cascaded.

Installation

- Both masthead amplifiers are suitable for indoor and outdoor use.
- SAFETY FIRST - make sure all power supplies and TV receivers are isolated from the mains unit until all work is complete. This minimises the risk of electric shock during installation.
- The antenna should be mounted as high as possible to give the best signal reception. It may be necessary to adjust the exact position since UHF signals can vary in strength over short distances.
- The antenna, amplifier and cabling should be in a position that minimises possible interference from other electrical sources such as telephone or power lines.
- Use only good quality coaxial cable to make connections - Philex PH100 cable (27603/27613R) C55-type cable (Philex part no. 27600R) or cable conforming to BS5425 should be used. UHF cables with very low braid coverage should be avoided as should foil-only cables, since it is difficult to make reliable connections.

Typical configuration

- Ensure that the DC power supply is available (12V 25mA - as supplied from Philex SLxPSU 27832R). Both masthead amplifiers receive power from the remote end of their PSU cables. It can be supplied either from a dedicated power unit or from a unit to which the PSU cable connects, providing line powering is available.
- Ensure that the mains power supply (SLxPSU 27832R or equivalent) is correctly connected. Isolated outlet plates are recommended since they give additional protection against receiver faults.

Getting the best performance

- The cable between the antenna and the amplifier should be kept as short as possible for best performance - though the amplifier should not be installed amongst the elements of the antenna itself. Ideally, the masthead amplifier should be positioned on the mast at least one metre below the closest part of the antenna.
- Tighten all connections, taking particular care with the braid clamps, which should be as tight as possible, without crushing the cable. Remember to re-fit the lid, ensuring that it is tightly in.

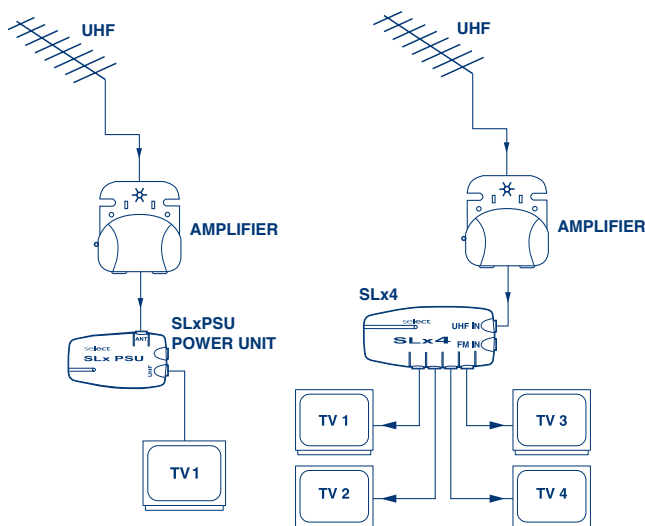
Technical specifications

Philex part no.	27830R	27831R
Bandwidth	470-862MHz	470-862MHz
Noise figure	5dB	5dB
Gain	15dB gain	26dB gain
Max output	105dbuV	105dbuV
Power requirement	12V DC 23mA	12V DC 23mA

Guarantee

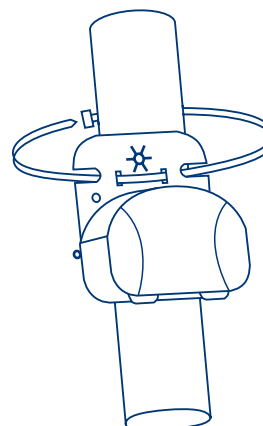
This product is guaranteed against faulty components or poor workmanship for a period of 3 years from the date of purchase. This guarantee does not cover accidental or malicious damage (including damage from natural causes such as lightning) and will be invalidated by installation or use other than in accordance with these instructions, repair or attempted repair other than by the manufacturer. This does not affect your statutory rights.

Philex reserves the right to modify or change the specifications of these products without prior notice. The technical specifications listed are typical and subject to normal manufacturing and service tolerances.

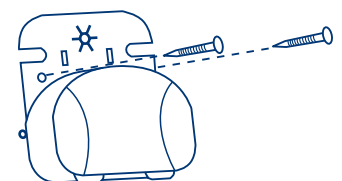


Typical applications

MAST MOUNTING



WALL MOUNTING



Fixing methods