



# CXL Series

## 100/70 V Transformers

### Abridged Installation Guide

**Applicable to types:**  
**CXL-40T, CXL-100T, CXL-200T, CXL-400T**

Thank you for purchasing this Cloud product.

The CXL Series of transformers are designed to interface a power amplifier's low-impedance output to a 100 V-line or 70 V-line loudspeaker system. They are not intended for any other purpose.

**IMPORTANT:** This document provides abridged installation notes only. Full guidance on installing CXL Series transformers can be found in the Installation Guide supplied with the Cloud rack trays Models CXL-800 and CXL-1600. If you intend to install this transformer without a Cloud rack tray, and do not have experience in wiring high voltage transformers, we strongly recommend that you download the full manual from [www.cloud.co.uk](http://www.cloud.co.uk), and follow the guidance therein.

### Power ratings

The numerical part of the product reference refers to the maximum power rating of the amplifier channel that the transformer should be used with:

Type	For use with amplifiers with a power rating (into 4 ohms) of:
CXL-40T	50 W per channel
CXL-100T	120 W per channel
CXL-200T	240 W per channel
CXL-400T	400 W per channel

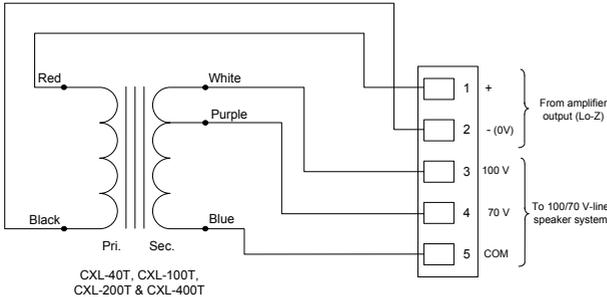
Check the per-channel power rating in the amplifier's User Guide to ensure the transformer is the appropriate type.

CXL Series transformers are designed to be mounted on Cloud CXL-800 or CXL-1600 trays, which can be 19" rack-mounted. While the use of these trays is recommended, independent mounting is possible providing that due attention is paid to the safety issues noted overleaf.

## Mounting without a rack tray

The transformer may be mounted onto any convenient clear, flat surface with the single M6 fixing bolt through the toroid's centre hole. Mounting it immediately adjacent to the amplifier is not mandatory, though may often be the most practical solution. Consideration should be given to ventilation, particularly if multiple transformers are housed together and/or the amplifier has a high duty cycle (i.e., handling audio continuously).

## Connections



The transformer's windings are terminated in a 2-pin (primary) and a 3-pin (secondary) 5 mm-pitch female screw-terminal connector mounted on a PCB. This assembly is ready for fitting to the rear panel of a CXL-800 or CXL-1600 rack tray.

If the transformer is to be mounted without a rack tray, the connector assembly may be removed by cutting it off. Connection to the amplifier's low-impedance output and to the loudspeaker system can be made using insulated terminal blocks (see Safety Notes below).

Take care to observe the wire colour coding: **red** (+) and **black** (-) should be connected to the amplifier output; the loudspeakers should be connected to **white** (+) and **blue** (-) for a 100 V-line system, or **purple** (+) and **blue** (-) for a 70 V-line system.

## Important Safety Notes



It should be recognised that 100 V- or 70 V-line speaker systems have the potential to deliver an electric shock. Installers must ensure that access to the secondary (output) terminals of the transformer is restricted by the use of insulated terminal blocks and fully-shrouded crimp terminals. If the transformer is being panel-mounted within an equipment rack, fit lockable side and rear panels, and blank 19" panels as necessary, to prevent access to the terminations. If the transformer is to be housed externally, the use of a lockable IP-rated enclosure fitted with the appropriate cable grommets is recommended.

In all cases, the transformer and associated speakers will need to comply with local electrical regulations for AC voltages up to  $100 V_{rms}$  ( $141 V_{peak}$ ).

Do not expose the transformer to rain or moisture.

The transformer must be installed in a safe manner. Cloud Electronics Ltd. accept no responsibility for hazardous installations.