

Audio Connectors

There are a variety of different audio connectors available. The most common types are 3-pin XLR, RCA, and Phone jacks.

3-pin XLR

3-pin XLR connectors are mainly used for microphone balanced audio signals. Using a balance signal reduces the risk of inference.

- Pin 1 is the earth (or shield)
- Pin 2 is the +ve (or 'hot')
- Pin 3 is the -ve (or 'cold').

There are a number of different XLR's - 3-pin, 4-pin, 5-pin etc



1. The three hole of blue (left) is female connector. For Output communication.
2. The three pin of black (Right) is male connector. For Input communication.

¼" Phono Jack (6.5mm Jack)

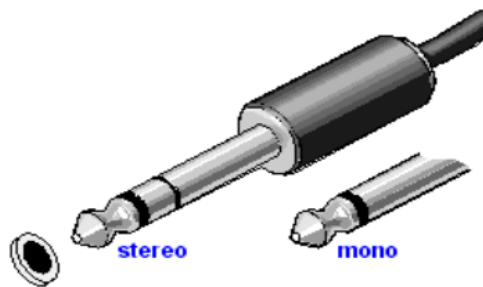
There are two types of phono Jacks: Mono and stereo. The mono jack has a tip and a sleeve, the stereo jack has ring, a tip and a sleeve.

- On the mono jack the tip is the +ve, and the sleeve is the -ve or shield.
- On a stereo jack being used for a balanced signal, the tip is the +ve, the ring is the -ve, and the sleeve is the shield.
- On a stereo jack being used for a stereo signal (left and right), the tip is the left, the ring is the right, and the sleeve is the shield.

Jacks also come in various sizes - phono (¼"), 3.5mm, 2.5mm. The wiring for all of them is the same.

1/4" Stereo Jack(left)
1/4" Mono Jack(Right)

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RCA

RCAs are used a lot for home stereos, videos, DVDs etc.

The RCA can carry either audio or video. It is wired the same way as a mono jack: The center pin is the +ve, and the outer ring is the -ve or shield.



- ▶ RCA Connector is commonly used to carry audio and video signals
- ▶ **Yellow - Video**
- ▶ **White - Audio (L)**
- ▶ **Red - Audio (R)**

Modern Recording studio console



Mixing Consoles (Mixer Boards, or just Mixers) are the iconic symbol of the modern recording studio.

A Mixer can be divided into three sections

1. Input section
2. Output section
3. Monitor section

Input section (Here are the main parts of each and what they do:

- Inputs connect to your mics, electric instruments, and recorder outputs.
- Faders are sliding volume controls that affect the loudness of each instrument.
- EQ knobs adjust the tone quality of each instrument (bass, treble, midrange)
- Aux knobs set the amount of reverb or other effects, and also can be used to set up a monitor mix or head phone mix.
- Pan pot can be used to set the left, centre, right.
- Channel assign buttons route each input signal to the desired recorder track.

Output section

- Master fader set the overall of the entire stereo mix.
- Group faders set the overall of each group or sub mix.
- Output connects to your recorder inputs.
- Display Meters help you set the recording level (to prevent distortion and noise)
- **Monitor section**
- Monitor controls select what you want to listen to.
- Aux knobs or channel faders set up the monitor mix.

Typical input module

