

▼ Meeting 3: Interconnectivity • The Mixer

▼ Cable Types

- Instrument
- Patch
- Microphone
- Speaker
- Snake

▼ Balanced

- 2 wires (“hot” and neutral) and a ground wire
- XLR or TRS connectors
- “Common mode rejection” noise cancellation
- Best for long cable runs

▼ Unbalanced

- A hot wire and a ground shield
- TS connectors
- Ground shield provides limited noise cancellation
- Should be kept under 10’

▼ Connector Types

- TS 1/4” phone jack
- TRS 1/4” phone jack
- RCA connectors
- 1/8” mini jack
- XLR plug
- Banana plug
- Speakon

▼ Mixers

- Input stage
- Pre/PostAuxes

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- EQ
 - Pan/Mute/Solo
 - Input Fader
 - ▼ Metering
 - Volume Unit (VU)
 - Peak Program Meters (PPM)
 - ▼ Impedance (Z)
 - Resistance to the flow of electrical current
 - Hi-Z devices: guitars, synthesizers
 - Lo-Z device: microphones (under 600 Ω)
 - Inputs should match outputs with regard to Z type
 - ▼ Recording from the Mixer
 - Tape I/O
 - via Aux Bus
 - Mono hookup
 - Digital (USB, FireWire, etc.)