

# Telex Intercom

## 1] Small System Intercom

AudioCom

RTS-TW

## 2] Large System Intercom

RTS Matrix

## 3] Broadcast Headsets

# Intercom Overview

- What is a Two Wire System?
- “It is a communication system with audio input and output run on the same wires”.
- System types
  - AudioCom (balanced operation).
  - RTS-TW (Unbalanced) , True two wire.
  - ClearCom (Unbalanced), Three wire.

## Intercom-definitions

- Party-Line Intercom
  - A system in which all participants are engaged in the same conversation or conference. Known as Two-Wire or TW
- Matrix Intercom System
  - A system which is designed primarily for point to point private conversations between individuals. Known as Four-Wire or point to point

## Definitions continued

- TW : An audio communication system that carries all of the system's requirements on one pair of wire for each line (channel) of communication.
- "Balanced" An intercom system that carries audio "HI & LO" and voltage on both conductors (Audiocom)
- "Un-balanced" An intercom system that carries audio on one conductor with common ground. (ClearCom, RTS TW)

## Definitions continued

- “Wet” A channel of intercom that is carrying DC-voltage
- “Dry” A channel of intercom that is without voltage . \* Termination is required

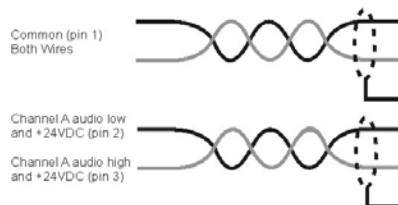
## AudioCom System Configurations

- Power supply
- Master Station
- User Stations

# Single Channel Cable Wiring

- Cables are wired straight through.
- The common connection has a dedicated wire pair.
- Shielded cable is recommended.

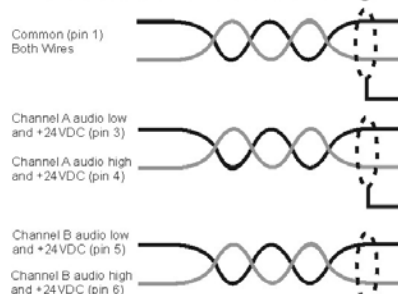
Single Channel AudioCom Wiring



# Two Channel Cable Wiring

- Cables are wired straight through.
- The common connection has a dedicated wire pair.
- Shielded cable is recommended.

Two Channel AudioCom Wiring



Notes:

1. Wire all cables straight through.
2. Leave shields unconnected.



## Power Supplies:



## PS-L Wall pack supply

- Used for locally powering a single user station
- AC wall pack supply
- Output – 12 Volts @ 800mA
- Can be used for US2000A, SPK2000, ES4000A, CIA1000

## PS-1F

- Single channel power supply
- 0.5Amps
- Ideal for 4-5 users
- Not expandable
- Balanced operation only

## PS-2001L

- Two channel power supply
- 2 Amps of power
- Balanced/Un-balanced compatible
- Combine/Isolate switch
- Single XLR for each channel
- “IAR features” Instantaneous Auto Reset



## SPS-2001

- Two channel power supply w/ speaker
- 2Amps of power
- Balanced/Un-balanced compatible
- Combine/Isolate switch
- Instantaneous Auto Rest “IAR” features.
- Powered Speaker amplifier and speaker.



## PS-4001

- Four channel power supply
- 2 Amps of power
- Individual fault indicators
- Single XLR for each channel
- IAR features.



## Master Stations (Powered)

### MS-2001

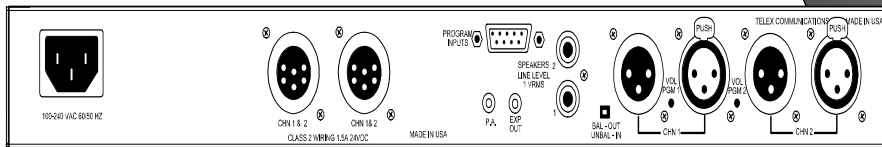
- Two Channel powered Master station
- 2 Amps of power
- Two 3 pin XLR's per channel, two 6 pin XLR's for two channel operation.
- Powered internal 2 channel speaker





## MS-2001 continued

- Switched Balanced/Un-balanced operation
- Separate program-in for each channel
- All talk/ Mic kill/ PA out



## EMS-4001

- Four channel powered Master Expansion Station
- Can be used with both the MS-2001 and US2000A
- 2 Amps of Power
- IAR Features.

# User Stations



# US-2000A

- Two channel user station
- Contains no power supply
- Headset/Gooseneck
- All talk/ Mic kill/ PA out
- VOX features for noisy environment.



## US-2000A continued

- Two XLR's for each channel
- Separate program-in for each channel
- Wet/Dry applications
- Powered from either a system power supply or locally powered

## ES-4000A



- Four channel expansion station (unpowered)
- Can be used with either MS2001 or US2000A
- Separate talk/listen/call
- Separate program-in for each channel

## IFB-1000

- Single channel- “listen only” belt pack
- All metal design
- 1/4” earphone connector
- ClearCom compatible
- Run directly off the intercom line.



## BP-1000

- Single channel belt pack
- All metal design
- Tone alert
- Balanced/un-balanced
- Dynamic/electret mic
- Call light transmit / receive.



## BP-2000

- Two channel select metal belt pack
- Call Tone alert
- Balanced/un-balanced
- Dynamic/electret mic
- Call light transmit / receive.



## WM-1000

- Single channel wall mount headset station
- “Dual gang box”
- Call Tone alert
- Balanced/un-balanced
- Dynamic/electret mic
- Local or line powered
- ClearCom Compatible
- Think belt pack in a wall



## WM-2000

- Two channel wall mount headset station
- Dual gang box”
- Tone alert
- Balanced/un-balanced
- Dynamic/electret mic
- Local or line powered



## SS-1000/SS-2000

- Single and Dual channel speaker stations
- Flush mount with no enclosure
- “U”, “S”, “P” boxes
- Balanced/un-balanced
- Dynamic/electret mic



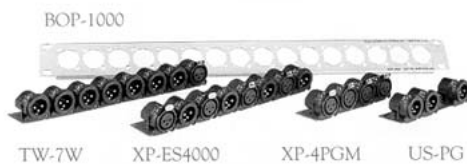
\*S\* BOX

\*U\* BOX

\*P\* BOX

## Connectivity

- TW5W
- TW7W
- BOP1000
- JB-2
- CCB-1



TW-7W    XP-ES4000    XP-4PGM    US-PG

## Interface Options

- Audiocom to Clear-Com
  - Most of the Audiocom product is 100% compatible with Clear-Com line (call light included). Only requires user to switch internal settings to unbalanced operation.
  - CCB-1 will interface any Audiocom model directly to Clear-Com line. Useful in interfacing to Camera Control Units (CCU).

# 1] AudioCom System configuration advantages

- Enables Longer Cable Runs
- More noise canceling than “Un-balanced” system.
- Can be easily interfaced to Clear Comm

Interface units



## How do I interface?

- 4-wire to two wires , use Model SSA 324 or SSA 424. It comes with call light option. AudioCom / RTS-TW / ClearCom compatible.
- Telephone systems, use a hybrid called the Telos Link .

## Model SSA-324



- 4 wire to 2 wire analog system to system adapter.
- 20 dB of Adjustable Input / Output Level.
- Interface contains two channels A and B
- Call light option board optional.
- Full range frequency null adjustment .
- RTS. AudioCom and ClearCom compatible.
- Perfect for fixed installation.

## Model SSA-424



- 4 wire to 2 wire digital system to system adapter.
- Input / output Audio Adjust.
- Interface contains two channels A and B
- Call light option board standard
- Led channel assignment and level indicators
- RTS. AudioCom and ClearCom compatible.
- Automatic frequency nulling.
- Perfect for the use in OB vans

Broadcast Headsets

# Headsets Overview



HR-1

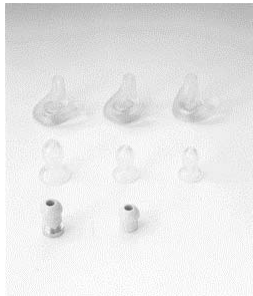
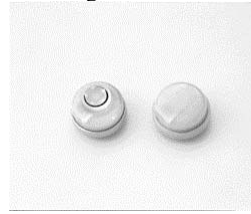
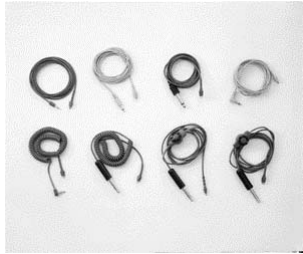


HR-2

# Headsets continued



## Headsets continued



# Thank you!!!!

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Group