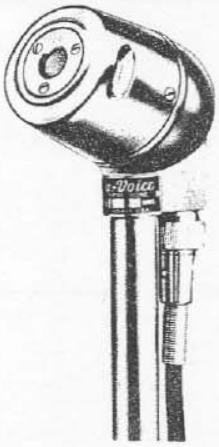

Figure 1 — Model 606 Microphone

FEATURES

- Provides excellent noise-cancelling characteristics under high ambient noise conditions
- Rugged dynamic microphone construction
- Matches standard amplifier inputs

The Electro-Voice Model 606 is a pressure-gradient microphone providing noise-cancelling characteristics. A coil attached to the diaphragm generates a voltage in accordance with the variation in the applied sound pressure.

This close-talking, compact, sturdily designed microphone provides excellent intelligibility, high level and pleasing appearance. It is especially designed for use where background noise is at a high level or for elimination of feedback under difficult acoustical conditions. Enables user to speak in a normal voice for public address work, all types of dispatching call systems, paging systems, amateur and general communication service. Its rugged construction permits indoor and outdoor use without damage by hard usage, temperature or humidity.

The diaphragm in the Model 606 is constructed of nonmetallic Acoustalloy -- an exclusive feature of Electro-Voice dynamic microphones. It aids in providing smooth response over a wide frequency range. In addition, it is practically indestructible, withstands high humidity, extreme temperatures, corrosive effects of salt air and severe mechanical shock.

High-impedance models match a standard grid input resistance of from .25 to 5 megohms. Low-impedance models should be coupled by a suitable matching transformer. (E-V 502A or equivalent) having the same input impedance as the microphone. Low impedances are not balanced to ground.

Alnico V and Armco magnetic iron are combined in a nonwelded magnetic circuit to give the Model 606 an output which is well-suited to modern amplifiers.

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be an Electro-voice Model 606 or equivalent. The microphone shall be a noise-cancelling, dynamic type, with uniform frequency response from 100 to 6000 cps. The diaphragm shall be made of nonmetallic Acoustalloy. The microphone shall have one of the following impedances: 50, 250 ohms or high-impedance. High-impedance models shall work into a standard grid input resistance of from .25 to 5 megohms.

The output level for high impedance shall be -55 db with 0 db equalling 1 volt/dyne/cm^2. The output level for 50 and 250 ohms shall be -55 db with 0 db equalling 1 mw/10 dynes / cm^2. EIA sensitivity rating shall be -148 db for 50 ohms, -147 db for 250 ohms and -151 db for high impedance. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron.

The case shall be of high-impedance diecast zinc with satin chrome finish. The microphone shall have a maximum net weight of not more than 14 oz. less cable. An 18-ft. single-conductor, shielded, synthetic-rubber jacketed cable for the microphone shall be provided. The microphone shall have an MC-1 connector or equivalent.

The microphone shall include a stand coupler with a 5/8 in. -27 thread on the stud and the head shall be tilted at a fixed angle of 22°.

SPECIFICATIONS

Low Impedance Output Level: -55 db (0 db equals 1mw/10 dynes/cm^2) (measured at 1/4 in.)
High Impedance Output Level: -55 db (0db equals 1 volt/dyne/cm^2) (measured at 1/4 in.)
EIA Sensitivity Rating: -148 db for 50 ohms, -147 db for 250 ohms and -151 db for High Impedance
Frequency Response: 100 to 6000 cps
Type: Dynamic
Impedance Available: 50, 250 ohms or Hi-Z (balanced to ground)
Dimensions: 2" w., 3-1/4" d., 2-1/2" h. including stud. (See Figure 3)
Cable Connector: MC-1 Amphenol
Cable: 18-ft. single conductor shielded
Stand Coupler: 5/8 in -27 thread
Case Material: High-pressure diecast zinc
Finish: Satin chrome
Net Weight: 14 oz. less cable
Attentuation Chart: Effect of extra cable length when installed on 25,000 (Hi-Z) microphone (See Figure 2)
Warranty: The Electro-Voice Model 606 Microphone is guaranteed against defects in workmanship and material.

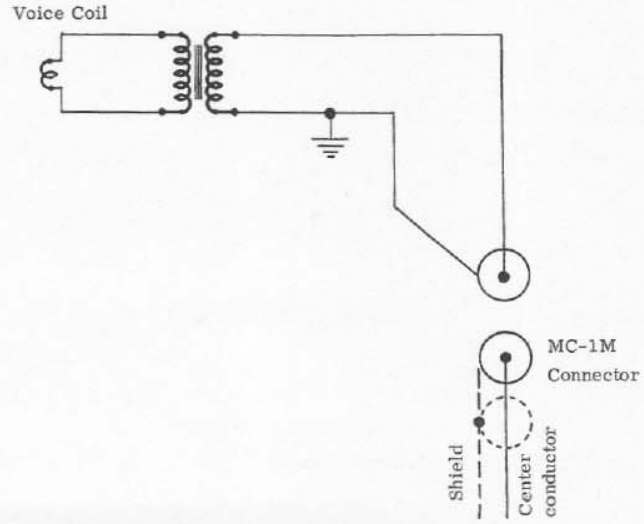

Fig. 2 — Wiring Diagram

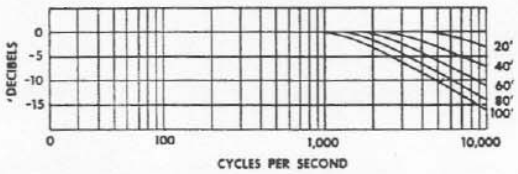

Fig. 3 —

Attenuation Effect of Extra Cable Length when Installed on 25,000 ohm (Hi-Z) microphone.

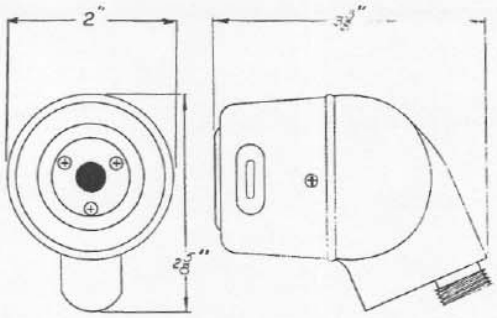

Fig. 4 — Dimensions