



DESCRIPTION AND APPLICATIONS

The Electro-Voice Model 647A lavalier microphone is a small, light-weight, dynamic microphone with wide-range frequency response. This slim, unobtrusive microphone may be held in the hand, attached to a lavalier cord, or mounted on a stand, using the swivel stand clamp supplied. It is excellent for use in audience participation and panel shows, church pulpits, etc., wherever microphone concealment, individual mobility, or free movement of the hands is desired. No closely associated auxiliary equipment is required.

The Model 647A microphone features the exclusive E-V Acoustalloy® diaphragm. This nonmetallic diaphragm withstands high humidity, temperature extremes, corrosive effects of salt air, and severe mechanical shocks. It is practically indestructible with normal use.

The 647A is equipped with three specially designed accessories intended to increase the usefulness and mounting convenience of the microphone - a newly designed lavalier cord assembly, a belt clip, and stand mounting clamp. The lavalier cord assembly is supplied attached to the microphone, ready for use. Note that the flexible plastic cord coupler may be removed from the microphone, if desired, by firmly pulling it over the front of the microphone. Alternately, the coupler may be pushed free of the microphone and allowed to slide down the cable, the neck cord being retained separately for future use. In this case, the cord coupler will be retained permanently and cannot be lost since it cannot escape from either end of the cable. (In the event the cord is misplaced, an ordinary shoestring may be employed after simply tying a knot in each end.)

The belt clip, when used in conjunction with the lavalier cord assembly, provides effective control

of cable placement and prevents unwanted mechanical noise from being transmitted up the cable to the microphone. After inserting the cable in the clip as shown in Fig. 1, simply attach it to the belt at one side. It may also be clipped over the edge of a pocket, etc.

The stand mounting clamp may be used to attach the 647A to any conventional microphone stand with 5/8"-27 thread. The built-in swivel permits adjustment of the microphone to any desired angle. The design of the clamp allows the microphone to be inserted or removed readily as desired.

SPECIFICATIONS

- Element: Dynamic
- Frequency Response: 60 to 12,000 cps. (Fig. 2)
- Polar Pattern: Omnidirectional (Fig. 3)
- Impedance: Hi-Z or 150 ohms (specify when ordering)
- Output Level: Hi-Z, -60 db
(0 db = 1 volt/dyne/cm²)
150 ohm, -60 db
(0 db = 1 mw/10 dynes/cm²)
- EIA Sensitivity Rating: -155 db
- Diaphragm: Electro-Voice Acoustalloy®
- Dimensions: Diameter, 3/4 inches
Length, 3-5/8 inches
(Fig. 1)
- Finish: Non-reflecting gray
- Net Weight: 2 ounces, less cable
- Cable: 18 ft., two conductor shielded, rubber jacketed
- Cable Connector: No connector at microphone terminal
- Accessories Supplied: Neck cord assembly, belt clip, stand clamp.
- Warranty: The 647A microphone is guaranteed for life against defects in workmanship and materials.

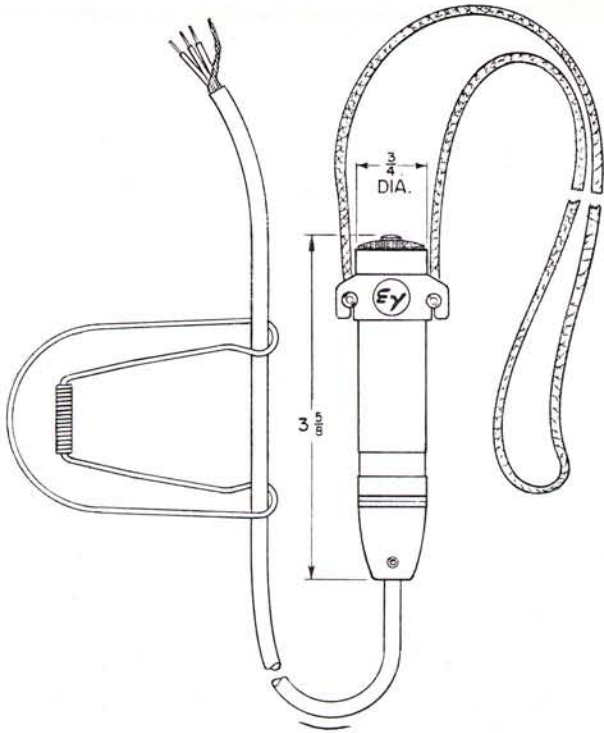


Figure 1 - Dimensions

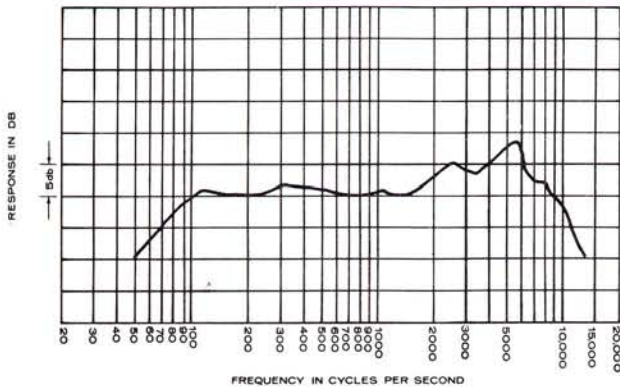


Figure 2 - Frequency Response

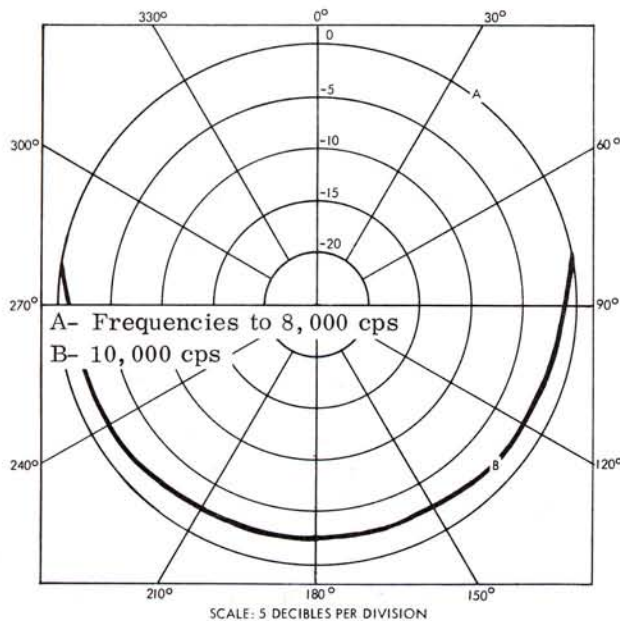
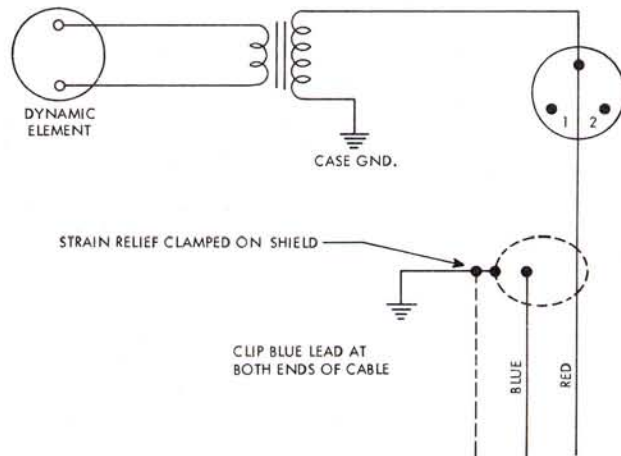


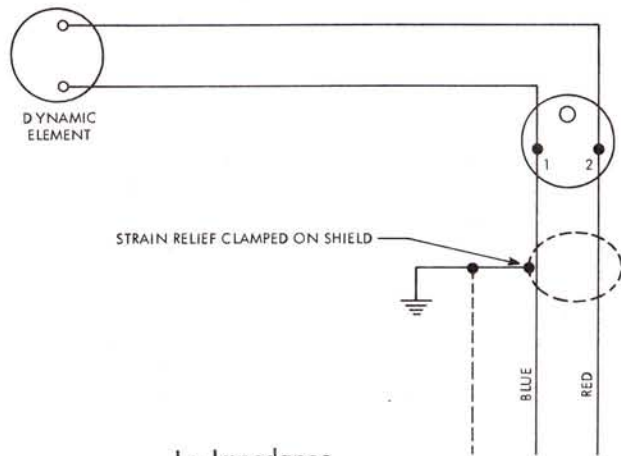
Figure 3 - Polar Pattern

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be the Electro-Voice Model 647A or equivalent. The microphone shall be an omnidirectional, dynamic type with nonmetallic Acoustalloy diaphragm. The microphone shall have a magnetic shield to prevent dust and magnetic particles from reaching the diaphragm. A uniform response from 60 to 12,000 cps shall be obtained. Impedance shall be (specify 150 ohms or Hi-Z). Low impedance line shall be balanced to ground and phased. The output level shall be -60 db with 0 db equalling 1 mw/10 dynes/cm² at low impedance and -60 db with 0 db equalling 1 volt/dyne/cm² at high impedance. EIA sensitivity rating shall be -155 db. The microphone shall have a diameter of 3/4 inch, a length of 3-5/8 inches, and a net weight of 2 ounces without the cable or neck cord assembly. Finish of the microphone shall be non-reflecting gray. A lavalier cord, belt clip, and swivel stand clamp shall be supplied.



Hi Impedance



Lo Impedance

Figure 4 - Schematic