

Frequency Response Curve

DESCRIPTION

The Electro-Voice Model DO54 is a dynamic omnidirectional microphone designed for demanding professional applications where a compact, wide-range omnidirectional microphone is needed. The microphone is ideal for boom or stand mounting in recording and broadcast use, and is also excellent for close-up, handheld use in stage and interview situations. The DO54 was designed with a connector in mind, and it fits very comfortably into the hand when a standard broadcast connector is plugged into the microphone.

Smooth, wide-range response, and low sensitivity to mechanical shock, combined with functional "easy to hold" styling, makes the DO54 a versatile professional microphone suited for any number of uses. The non-reflecting, fawn beige Micomatte finish eliminates hot spots for on-camera use.

This microphone features the exclusive, non-metallic Electro-Voice Acoustalloy® diaphragm that assures very smooth frequency response and is impervious to damage from extremes of temperature and humidity.

APPLICATIONS

The DO54, an omnidirectional microphone, is outstanding in applications where uniform sensitivity in all directions is desirable.

1. Frequency response, flat and uniform across the entire usable range makes the DO54 a good choice for:
 - a. Symphony and other wide-range recording situations where reverberation is not a problem.

- b. Calibration for use as a secondary standard in acoustic measurements where information below 50 Hz is unimportant.
2. The small diameter (3/4-inch shank) makes the DO54 comfortable and convenient for handheld use by:
 - a. Vocalist, for stage and television work.
 - b. News reporters, for interviews.

SPECIFICATIONS

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| Generating Element: | Dynamic |
| Frequency Response: | 50 to 18,000 Hz |
| Polar Pattern: | Omnidirectional |
| Impedance: | Lo-Z (150 ohms, balanced) |
| Output Level: | -58 dB (0 dB = 1 mw/10 dynes/cm ²) |
| EIA Sensitivity: | -149 dB |
| Diaphragm: | Electro-Voice Acoustalloy |
| Case Material: | Steel |
| Dimensions: | 1.12" (28.45mm) widest diameter, 3/4" (19mm) shank, 5.75" (146mm) long |
| Finish: | Fawn beige micomatte |
| Net Weight: | 6.5 ounces (184.27g) |
| Cable: | 15' (4.56m) 2-conductor, shielded, rubber jacketed, broadcast-type cable with Switchcraft A3F connector on one end |
| Cable Connector: | Mates with Switchcraft A3F, or equivalent |
| Accessories Furnished: | Model 312A clamp, and protective metal carrying case |
| Optional Accessories: | Model 355A Windscreen Model 340 Security Clamp Model 342 Stud Mount Adapter Model 307 Shock Mount |

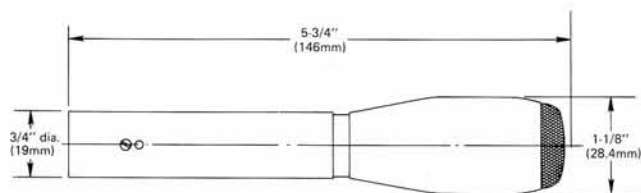
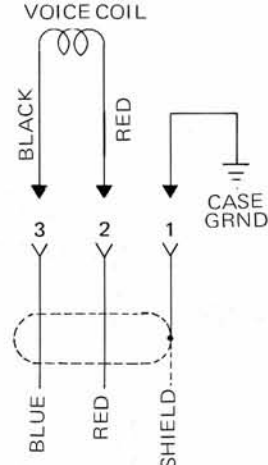


FIGURE 1 – Dimensions

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be an omnidirectional, dynamic type with wide-range frequency response, uniform from 50 to 18,000 Hz. The diaphragm shall be a non-metallic Acoustalloy and shall have a magnetic shield to prevent dust and magnetic particles from reaching the diaphragm. The impedance shall be such that the microphone will match all low impedance inputs (50 to 250 ohms). The line shall be balanced to ground and phased.

The output level shall be -58 dB (0 dB = 1 mw/10 dynes/cm²). EIA sensitivity rating shall be -149 dB. The case shall be made of steel. Overall length of the microphone shall be 5.75" (146mm). Major diameter shall not exceed 1.12" (28.45mm) and minor (or shank) diameter shall not exceed 3/4" (19mm). Finish shall be non-reflecting, fawn beige Micomatte. A 15-foot (4.56m) 2-conductor, shielded, broadcast-type, synthetic rubber-jacketed cable with Switchcraft A3F connector installed, shall be provided. The microphone shall have a built-in cable connector such that it will mate with the Switchcraft A3F connector, or equivalent. A Model 312A stand coupler and metal carrying case shall be supplied. The Electro-Voice Model DO54 is specified.



NOTE: POSITIVE VOLTAGE ON RED CABLE LEAD WITH POSITIVE PRESSURE.

FIGURE 2 – Wiring Diagram

WARRANTY

Electro-Voice Professional Broadcast, Recording, and Sound Reinforcement Microphones are guaranteed unconditionally against malfunction from any cause for a period of two years from date of original purchase. Also, every Electro-Voice microphone is guaranteed for the life of the microphone against malfunction due to defects in workmanship and materials. If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches and lifetime warranty does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For correct shipping address, instructions on return of Electro-Voice products for repair, and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone 616/695-6831).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.