

**Electro-Voice®**  
a MARK IV company

## Model DO56/DO56L Omnidirectional Dynamic Microphone

### SPECIFICATIONS

**Generating Element:**

Dynamic

**Frequency Response:**

80-18,000 Hz

**Polar Pattern:**

Omnidirectional

**Impedance:**

Lo-Z (150 ohms nominal)

**Output Level:**

-61 dB

(0 dB = 1 mW/10 dynes/cm<sup>2</sup>)

**EIA Sensitivity:**

-155 dB

**Diaphragm:**

Electro-Voice Acoustalloy®

**Case Material:**

Steel and aluminum

**Dimensions,**

**DO56:**

159 mm (6.25 in.) long overall

37 mm (1.45 in.) major diameter

19 mm (0.75 in.) shank diameter

**DO56L:**

292 mm (11.5 in.) long overall

37 mm (1.45 in.) major diameter

19 mm (0.75 in.) shank diameter

**Finish:**

Fawn beige

**Net Weight,**

**DO56:**

185 g (6.5 oz), without cable

**DO56L:**

157 g (5.5 oz), without cable

**Cable:**

4.6 m (15 ft), 2-conductor shielded, rubber-jacketed, broadcast-type cable with Switchcraft A3F connector

**Cable Connector:**

Mates with Switchcraft A3F

**Accessories Furnished:**

Model 312B stand adapter

Protective vinyl carrying pouch

**Optional Accessories:**

Model 351 windscreen

Model 340 security clamp

Model 342 stud mount adapter

Model 400 desk stand

Model 422 desk stand

Model 423A desk stand

### DESCRIPTION & APPLICATIONS

The Electro-Voice DO56 is a specially shock-isolated omnidirectional dynamic microphone created for the most exacting professional applications. Smooth response and low sensitivity to mechanical shock, combined with functional "easy to hold" styling, make the DO56 ideal for vocalists in stage and television work, as well as for news and sports broadcasters for interviews and commentary.

The DO56 is a shock mounting triumph. All handling noises, clothing noises, and even cord shock and vibration are isolated from the microphone element so effectively that almost no vibration is amplified.

Shock isolation of the DO56 is provided by shock rings holding the internal parts of the microphone and mounted to a steel sleeve which slips snugly into the outer case. Shock isolation is further enhanced by having the main acoustic cavity shock isolated with the dynamic element and decoupled from the rest of the case. The shock isolation rings are made of butyl rubber which not only acts as the spring in the isolation system but also converts shock energy to heat.

The rear outer case is constructed of steel/aluminum while the front portion of the case is made from thick-wall aluminum to provide maximum durability and proper balance in the hand. The DO56 employs a Memraflex grille screen that bounces back to keep its shape. The attractive fawn beige finish is ideal for today's on-camera use.

The smooth, wide-range response of the DO56 has been specially shaped for effective up-close vocal pickup under a wide variety of professional conditions. Response rolls smoothly below 200 Hz (-8 dB at 50 Hz) with a broad rise of about 3 dB in the 2,000-12,000 Hz range (see Figure 2). The result is a bright-yet-natural vocal quality without the low-frequency noise problems that can plague microphones with flat bass response.

The DO56 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. A carefully designed high-density Acoustifoam™ blast filter provides excellent protection from excessive sibilance and annoying "P-popping," as well as providing protection for the diaphragm from dust and magnetic particles.

### ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be an omnidirectional dynamic type with wide-range frequency response, uniform from 80 to 18,000 Hz. The diaphragm shall be non-metallic Acoustalloy® and shall have a high-density

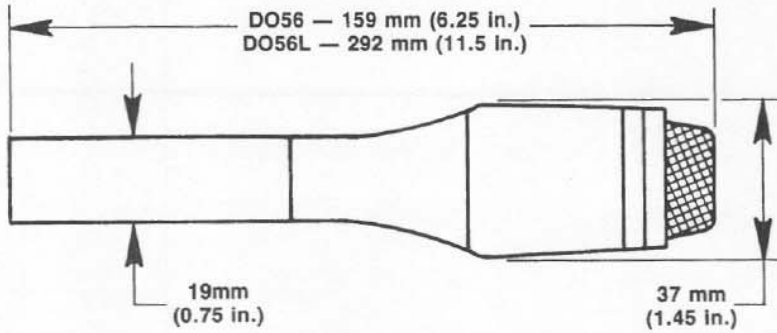


FIGURE 1 — Dimensions

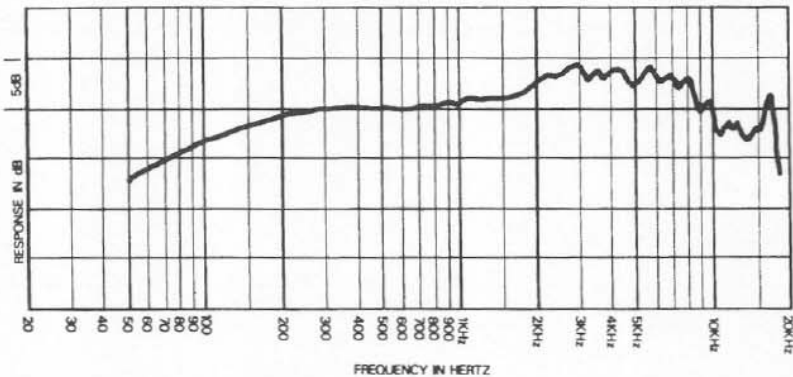


FIGURE 2 — Axial Response

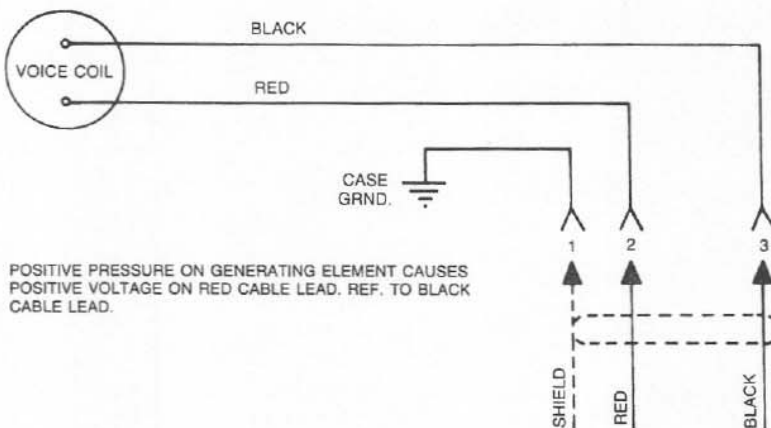


FIGURE 3 — Wiring Diagram

Acoustifoam blast filter to prevent dust and magnetic particles from reaching the diaphragm. The dynamic element and acoustic cavity shall be shock isolated from the outer case.

Nominal impedance shall be 150 ohms. The line shall be balanced to ground and phased. The output level shall be  $-61$  dB ( $0 = 1$  mW/10 dynes/cm<sup>2</sup>). EIA sensitivity rating shall be  $-155$  dB. The case shall be made of steel and aluminum. Overall length of the microphone shall be 159 mm (6.25 in.) or 292 mm (11.5 in.). Major diameter shall not exceed 37 mm (1.45 in.), and minor (or shank) diameter shall not exceed 19 mm (0.75 in.). Finish shall be fawn beige.

A 4.6 m (15 ft) 2-conductor shielded, broadcast-type, rubber-jacketed cable with Switchcraft A3F connector installed shall be provided. The microphone shall have a built-in cable connector to mate with the Switchcraft A3F. A Model 312B stand clamp and vinyl protective pouch shall be supplied. The Electro-Voice DO56 is specified.

**WARRANTY (Limited) —**

Electro-Voice Professional, PL & BK Series Microphones are guaranteed against malfunction from any cause for a period of two years from date of original purchase. Also, these microphones are guaranteed without time limit against malfunction in the acoustic system due to defects in workmanship and material. Any active electronics incorporated in the microphone are guaranteed for three years from date of original purchase for parts and labor against such malfunction. 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 extend to finish, appearance items, cables, cable connectors, switches, or malfunction due to abuse or operation under other than specified conditions, nor does it extend to incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than Electro-Voice or its authorized warranty service agencies will void this guarantee. A list of authorized warranty service centers is available from Electro-Voice, Inc., 600 Cecil Street, Buchanan, MI 49107 (AC/616-695-6831); or Electro-Voice West, 8234 Doe Avenue, Visalia, CA 93291 (AC/209-651-7777). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Service and repair address for this product: Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107.

Specifications subject to change without notice.



**ELECTRO-VOICE, INC., 600 Cecil Street, Buchanan, Michigan 49107**

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