

Electro-Voice®

ELECTRO-VOICE, INC.
BUCHANAN, MICHIGAN



Specifications

Model 655C Microphone



Fig. 1 — Model 655C Microphone

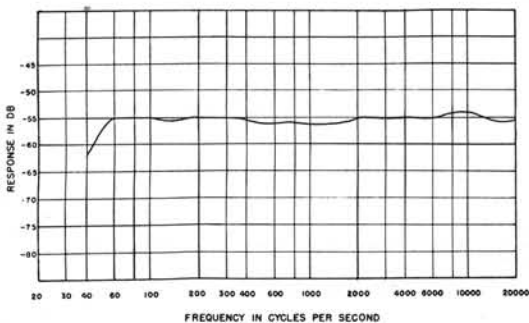


Fig. 2 — Response

The Electro-Voice Model 655C Microphone is a dynamic, omnidirectional type designed for highest quality FM, AM, and TV broadcasting. The traditional concept of bulk in broadcast microphones has been abandoned in the Model 655C. Its slim design is made possible without the necessity for closely associated auxiliary equipment. Wide frequency response, wide pickup range, and light weight make it ideal for TV staging and for pass-around use in audience participation. The microphone can be worked from any direction without audible frequency discrimination. It is equipped with a pop-proof wire mesh grille which minimizes wind and breath blasts.

The Model 655C is mounted on a swivel which permits tilting the microphone through a 90° arc toward the sound source. Microphone can be mounted on a floor or desk stand, on a boom, or carried in the hand.

Microphone features exclusive Electro-Voice Acoustalloy diaphragm. This nonmetallic diaphragm permits smooth response over a wide frequency range and withstands high humidity, temperature extremes, corrosive effects of salt air, and severe mechanical shocks. It is practically indestructible with normal use.

SPECIFICATIONS

Type: Dynamic

Frequency Response: Uniform from 40 to 20,000 cps. See fig. 2.

Impedance: 50, 150 and 250 ohms (connected for 50 ohms when shipped)

Instructions for changing impedance — See fig. 5.

Press down on the locking pin (A) of the Cannon UA-312 connector male insert in the back of the microphone. By pulling on the connector prongs the terminal board may be removed. The jumper wire (2) to the 50-ohm tap can be resoldered to the desired tap. The connector is then replaced and the locking pin will engage when the connector insert is properly seated.

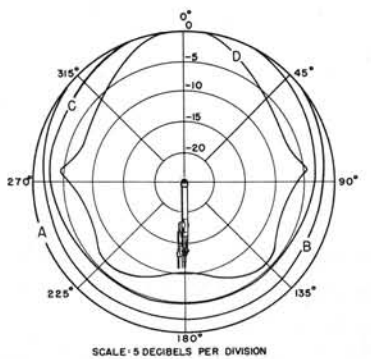
Output Level:

50-ohm impedance: -55db*; RETMA sensitivity rating, -148db

150-ohm impedance: -55db*; RETMA sensitivity rating, -149db

250-ohm impedance: -55db*; RETMA sensitivity rating, -147db

*0 db = 1 mw/10 dynes/cm²



A — 500 cps C — 5,000 cps
B — 1,500 cps D — 10,000 cps

Fig. 3 — Polar Pattern

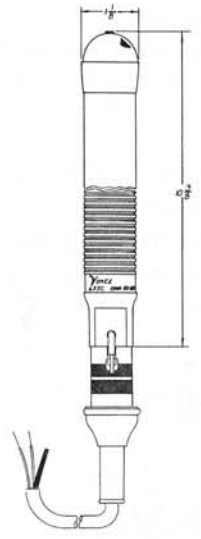


Fig. 4 — Dimensions

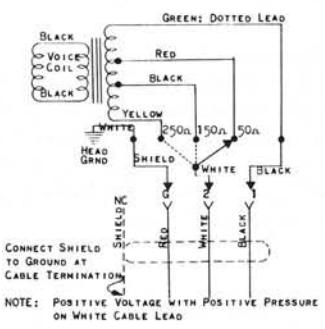


Fig. 6 — Wiring Diagram

Polar Pattern: Essentially omnidirectional, becoming directional with rise in frequency. See fig. 3.

Diaphragm: Electro-Voice Acoustalloy

Magnetic Circuit: Employs Alnico V and Armco magnetic iron in a nonwelded circuit.

Case: High tensile, lathe-turned aluminum

Finish: Nonreflecting gray

Dimensions:

Diameter: 1 1/8 in.
Length: 10 3/8 in. including stud
See fig. 4.

Net Weight: 7 oz without cable

Cable: 20-ft, three-conductor, shielded, black, neoprene-jacketed, broadcast type. Equipped with UA-311 Cannon Connector which mates with UA-312 Cannon Connector.

Stand Coupler: 1/2-in. pipe thread provided on microphone swivel

Standard Accessories: Carrying bag
5/8-in. -27 to 1/2-in. pipe thread adaptor

Warranty: The Electro-Voice Model 655C Microphone is guaranteed against defects in workmanship and material.

Architects' and Engineers' Specifications

The microphone shall be an Electro-Voice Model 655C or equivalent. The microphone shall be an omnidirectional, dynamic type with wide-range, uniform response from 40 to 20,000 cps. The diaphragm shall be nonmetallic Acoustalloy and shall have a magnetic shield to prevent dust and iron particles from reaching the diaphragm. The available impedances shall be 50, 150, or 250 ohms. It shall be possible to select either impedance by moving one lead from one terminal to another inside the microphone. Line shall be balanced to ground and phased.

The output level shall be -55 db with 0 db equalling 1 mw/10 dynes/cm². RETMA sensitivity rating shall be -148 db for 50-ohm impedance, -149 db for 150-ohm impedance, and -147 db for 250-ohm impedance. The magnetic circuit shall be a nonwelded circuit and employ Alnico V and Armco magnetic iron. The case shall be made of high tensile aluminum. The microphone shall have a diameter of 1 1/8 in., a length of 10 3/8 in., and a weight without cable of 7 oz. Finish shall be nonreflecting gray. A 20-ft, three-conductor, shielded, black, neoprene-jacketed, broadcast-type cable shall be provided. The microphone shall have a built-in cable connector similar or equivalent to the Cannon Model UA-312 connector which will mate with a connector similar or equivalent to the Cannon Model UA-311. It shall be possible to tilt the microphone through a 90-degree arc.

The microphone shall include a stand coupler with a 5/8 in. -27 thread to 1/2 in. pipe thread adaptor to permit use with a detachable stand coupler. A carrying bag shall be provided also.

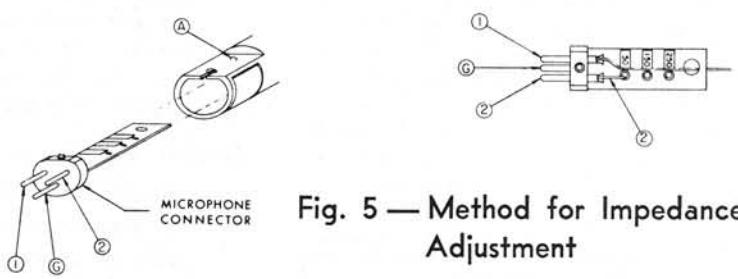


Fig. 5 — Method for Impedance Adjustment