



### GENERAL

The Shure Model 545L unidirectional dynamic microphone is a low-impedance unit designed for instrument or voice pickup in public address applications. With its attached cable, the microphone is suitable for mounting on an optional A25B swivel adapter, on a fixed pipe or flexible gooseneck, or for handheld use.

The 545L is ideal for use in critical public address systems such as those used in political conventions and legislatures, hotels, public auditoriums, stadiums, and churches. The microphone has an exceptionally uniform pickup pattern that provides an excellent solution to feedback problems in reverberant locations, permits best utilization of space in small studios, facilitates orchestral placement, and provides effective rejection of unwanted noises.

### Features

- *Effective cardioid pickup pattern, uniform to low frequencies, minimizes reverberation and feedback, discriminates against pickup of nearby performers and extraneous noise*
- *Excellent reproduction of music and voice*
- *Shock-mounted cartridge for quiet operation*
- *Low impedance for unlimited cable length*
- *Provided with very flexible, small diameter shielded cable*
- *Rugged and dependable under all operating conditions*

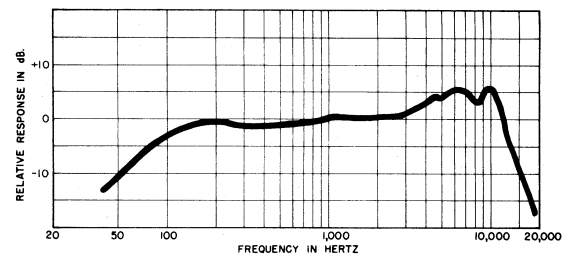
### SPECIFICATIONS

#### Type

Dynamic

#### Frequency Response

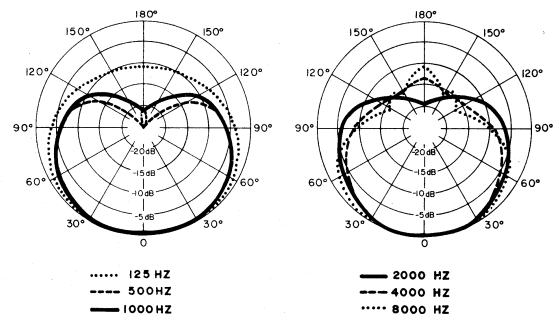
50 to 15,000 Hz (see Figure 1)



TYPICAL FREQUENCY RESPONSE  
Figure 1

#### Polar Pattern

Cardioid (unidirectional)—uniform with frequency, symmetrical about axis (see Figure 2)



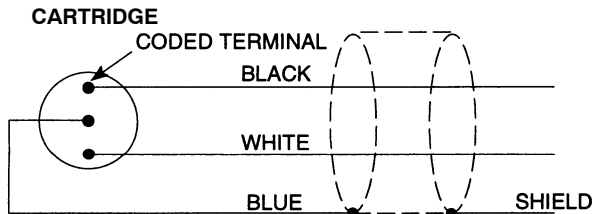
TYPICAL POLAR PATTERNS  
Figure 2

## Impedance

Microphone rating impedance is 150  $\Omega$  (250  $\Omega$  actual) for connection to microphone inputs rated at 75 to 300  $\Omega$

## Phasing

Positive pressure on diaphragm produces positive voltage on BLACK cable lead (see Figure 3).



INTERNAL CONNECTIONS  
FIGURE 3

## Sensitivity (at 1,000 Hz)

Open Circuit Voltage: - 57.5 dBV/Pa\* (1.3 mV)

\*(1 Pa = 94 dB SPL)

## Cartridge Shock Mount

Internal rubber vibration isolator

## CABLE

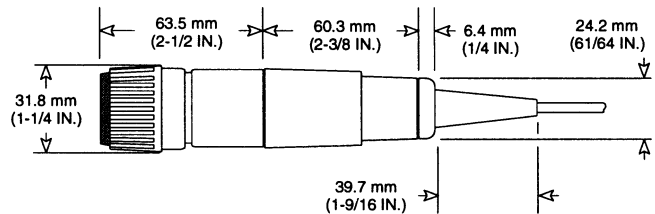
6.1 m (20 ft) two-conductor shielded, attached, small diameter cable

## Case

Silver finish aluminum and ARMO-DUR<sup>®</sup> with stainless steel screen

## Dimensions

See Figure 4



OVERALL DIMENSIONS  
Figure 4

## Net Weight

354 grams (12-1/2 oz)

## GOOSENECK MOUNTING

To mount the 545L on a gooseneck or fixed pipe with a 5/8"-27 thread, unscrew (turn counterclockwise) the end cap at the cable end of the microphone, and remove the end cap and strain relief by sliding them down the length of the cable. Fish the cable through the gooseneck or pipe and firmly thread the microphone to the mount.

## OPTIONAL ACCESSORIES

Swivel Adapter. . . . . A25B  
Line Matching Transformer . . . . . A95 Series  
Gooseneck (12 in., 18 in.) . . . . . G12, G18  
Windscreen . . . . . A2WS-GRA

## REPLACEMENT PART

Cartridge . . . . . R45L



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