



MODEL 561 OMNIDIRECTIONAL DYNAMIC MICROPHONE

The Shure Model 561 is an omnidirectional, low-impedance dynamic microphone designed for use on a stand or flexible gooseneck. Its smooth frequency response is tailored for optimum speech intelligibility, making it ideal for language labs, paging applications, and base station communications. The 561 is also suitable for use as a talk-back or cuing microphone in TV, film, and recording studios.

FEATURES

- Frequency response tailored for speech applications, with bass rolloff and mid-range “presence” rise
- Omnidirectional pickup pattern
- Low impedance; long lengths of cable can be used without affecting microphone response or level
- Shock-mounted cartridge for reduced stand and handling noise
- Rugged die-cast aluminum construction
- Lockable stainless steel mesh grille
- Optional gooseneck and mounting flange

GOOSENECK MOUNTING AND INSTALLATION

1. If necessary, drill a hole approximately 7 mm (1/4 in.) in diameter through the mounting surface.
2. Place the flange over the hole in the mounting surface and secure it with three screws.
3. Thread the supplied hexnut all the way down on the flange.

4. Thread the gooseneck tightly onto the flange. Back the hexnut up against the gooseneck. Use a wrench to tighten the nut firmly against the bottom of the gooseneck.
5. Slide the cable all the way through the gooseneck.
6. Thread the microphone firmly onto the gooseneck.
7. Connect the cable wires to the amplifier, mixer, or radio transmitter via screw terminals, an XLR connector, or a 1/4-inch phone plug. See Figure 1 and Table 1 below for wiring information.
8. Lock the microphone in place by tightening the setscrew over the mounting threads. The setscrew in the nameplate can be tightened to secure the grille.

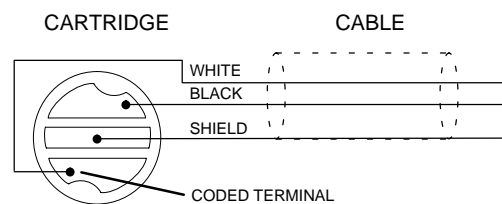
NOTE: Use Shure A95 Line Matching Transformers to match a low impedance (300 Ω) microphone line to a high impedance amplifier or mixer input. The A95 is available with various input/output connectors.

CONNECTOR WIRING

The 561 may be wired for either balanced or unbalanced operation.

For balanced operation, the WHITE wire is connected to the positive audio input, the BLACK wire is connected to the negative audio input, and the SHIELD is connected to chassis ground. Refer to Figure 1 and Table 1 below.

For unbalanced operation, the WHITE wire is connected to the audio input, the BLACK wire is connected to audio ground, and the SHIELD is connected to chassis ground.



INTERNAL CONNECTIONS
FIGURE 1

TABLE 1. CABLE-TO-CONNECTOR WIRING

INPUT TYPE	WIRE COLOR	FUNCTION	XLR CONNECTOR	1/4 INCH PHONE PLUG
BALANCED	WHITE	AUDIO +	PIN 2	TIP
	BLACK	AUDIO -	PIN 3	RING
	SHIELD	CHASSIS GROUND	PIN 1	SLEEVE
UNBALANCED	WHITE	AUDIO	—	TIP
	BLACK	AUDIO GROUND	—	SLEEVE
	SHIELD	CHASSIS GROUND	—	SLEEVE

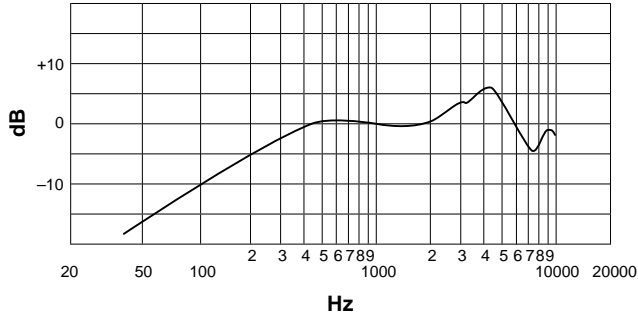
SPECIFICATIONS

Type

Dynamic

Frequency Response

40 to 10,000 Hz (See Figure 1)



TYPICAL FREQUENCY RESPONSE
FIGURE 1

Polar Pattern

Omnidirectional

Impedance

Rated at 150 Ohms (200 Ohms actual). Designed for connection to inputs rated at 19 to 300 Ohms.

Output Level (at 1,000 Hz)

Open Circuit Voltage -57.5 dBV/Pa (1.33 mV)
(1 Pa = 94 dB SPL)

Polarity

Positive pressure on diaphragm produces positive voltage on the white cable lead relative to the blacklead.

Cable

1.2 m (4 ft.) two-conductor, shielded, unterminated

Stand Thread

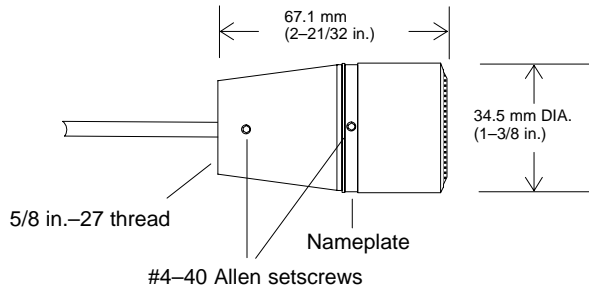
Suitable for mounting on stand or gooseneck with 5/8"-27 thread.

Case

Silver and black aluminum with stainless steel grille

Dimensions

See Figure 2



OVERALL DIMENSIONS
FIGURE 2

Net Weight

142 grams (5 oz.)

Packaged Weight

255 grams (9 oz.)

Certification

Conforms to European Union directives, eligible to bear CE marking; meets European Union EMC Immunity Requirements (EN 50 082-1, 1992).

FURNISHED ACCESSORIES

Allen wrench (No. 4) 80A67

OPTIONAL ACCESSORIES

Gooseneck, 45.7 cm (18 in.) G18
Gooseneck, 45.7 cm (18 in.), Side Vent G18A
Gooseneck, 30.5 cm (12 in.) G12
Gooseneck, 15.25 cm (6 in.), Side Vent G6A
Mounting Flange A12
Heavy-Duty Mounting Flange A13HD

REPLACEMENT PARTS

Cartridge R50
Screen and Grille Assembly RK85G

For additional service or parts information, please contact the Shure Service Department at 1-800-516-2525. Outside the United States, please contact your authorized Shure Service Center.

ARCHITECTS' SPECIFICATION

The microphone shall be a moving coil (dynamic) type with a frequency response of 40 to 10,000 Hz. It shall have an omnidirectional polar characteristic and a low impedance rated at 150 Ohms for connection to inputs rated 19 to 300 Ohms. The microphone output level shall be -57.5 dBV/Pa. It shall be equipped with a non-detachable 1.2 m (4 ft.) cable. The microphone shall be threaded for mounting on a stand or gooseneck with a 5/8"-27 thread. The overall dimensions of the microphone shall be 67.1 mm (2-21/32 in.) in length and 34.5 mm (1-3/8 in.) in diameter. The microphone shall be the Shure Model 561 or equivalent.



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