

# ELM-22/ELM-33

## Low-Profile, Lavalier Electret Condenser Microphone



### Key Features:

- Superior Sound Quality
- ELM-22 Omni-directional Polar Pattern
- ELM-33 Unidirectional Polar Pattern
- Lightweight, Low-Profile, and Rugged

### General Description:

The Telex series Electret Lapel Microphone is a low profile condenser designed for hands-free microphone applications. The ELM series is intended for vocal use in theatrical performance, AV presentations, fixed installations, houses of worship, or any venue where a natural sound is required from an inconspicuous, lightweight, lapel microphone.

The output of the ELM-22 is clean and accurate, while the omni-directional polar pattern ensures uniform output regardless of the microphone's angle relative to the sound source. The ELM-33 has excellent frequency response, while the unidirectional polar pattern ensures unwanted sounds are cancelled out.

The supplied windscreen can be utilized in windy environments and to reduce breath noise. ELM microphones use a shielded 4ft cable terminated in a genuine Switchcraft® TA4F connector.

### Application Notes:

#### Microphone Placement and Cord Looping

Typical microphone placement is shown on page 2. For best results, the microphone should be positioned as close to the mouth as possible (closer microphone placement will also increase bass response with the ELM-33 directional microphone). It is important to loop the cord as shown. This will help eliminate cord rustling noise from being picked up by the microphone.

#### Windscreen

Use of the windscreen, both indoors and outdoors, is recommended to prevent wind and pop noise.

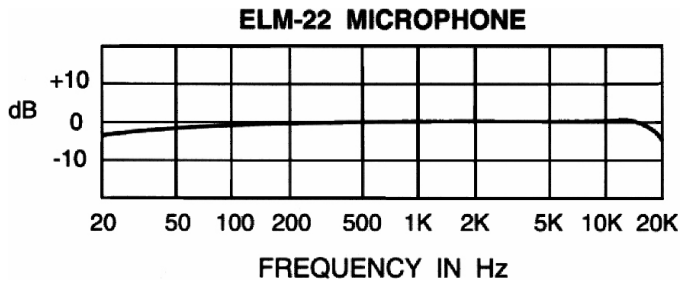


### Technical Specifications:

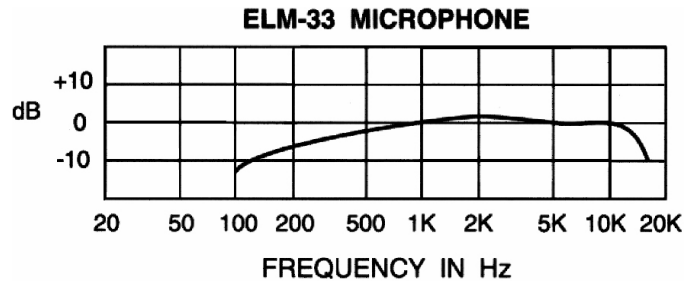
Transducer:	Condenser, electret
Frequency Response:	20 Hz - 20 kHz (ELM-22) 100 Hz - 10 kHz (ELM-33)
Polar Pattern:	Omni-directional (ELM-22) Unidirectional (ELM-33)
Sensitivity, 1 kHz:	-55 dBV, 1.8 mV/Pascal (ELM-22) -66 dBV, 0.5 mV/Pascal (ELM-33)
Dynamic Range:	110 dB
Output Impedance, 1 kHz:	5000 Ohms
Power Requirements:	+3 - 20 VDC
Polarity:	Positive pressure on diaphragm produces a positive voltage on pin 3
Dimensions:	See diagram
Cable:	4 ft (1.22 m) long; 0.079 in (2 mm) diameter
TA4F Connector Wiring:	Pin 1 - Ground Pin 2 - Bias Voltage Pin 3 - Audio Pin 4 - Unused
Accessories Furnished:	Windscreen Clothing Clip Tie Tack Gig Bag
Net Weight:	0.7 oz (20 g)
Optional Accessories:	TXA Phantom Power Adapter



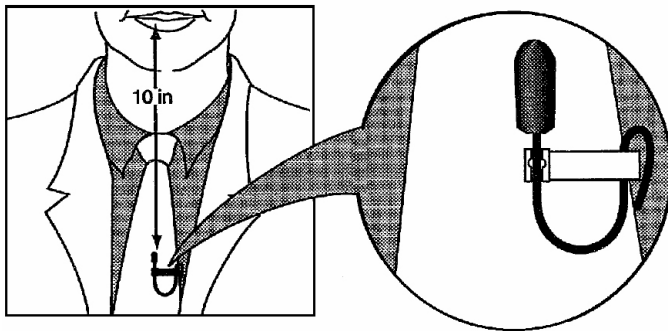
## Frequency Response, ELM-22:



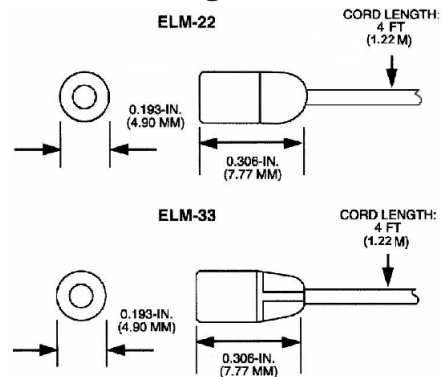
## Frequency Response, ELM-33:



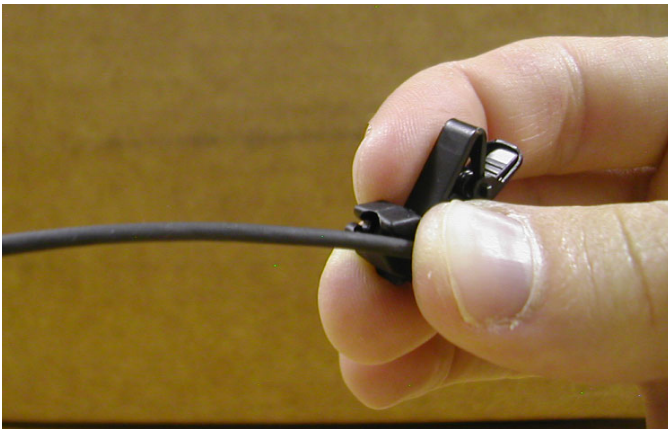
## Microphone Placement:



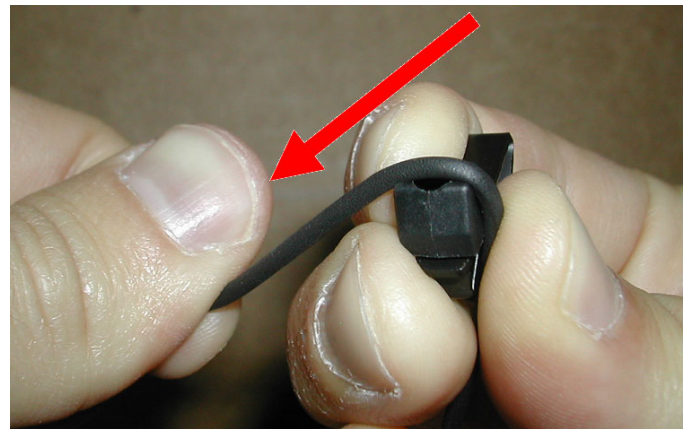
## Dimension Drawing:



## Applying Tie-Clip to ELM Microphones:



**Step 1:** Hold the wire next to the plastic cord grip. Immobilize the wire against the clip with your thumb, as shown.



**Step 2:** Pull the cord tight across and down the top of the cord grip to seat the wire.

**NOTE:** To change the location of the clip, remove the clip from the wire and re-apply it to the desired location.

# Electro-Voice®

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Specifications subject to change without notice.