

**CONTROLLED MAGNETIC® HAND-HELD MICROPHONES**

**GENERAL**

The Models 405K and 418A Communication Hand Microphones are pressure actuated units using the Shure developed balanced armature, CONTROLLED MAGNETIC® Cartridge. They are designed for clear, crisp, natural voice response of high intelligibility.

MODEL 405K IS HIGH IMPEDANCE AND IS A DIRECT REPLACEMENT FOR THE GENERAL ELECTRIC MODELS EM10A1, EM10A2, EM10B2, EM10D, EM10E, EM25A, AND EM25E FOR USE WITH PROGRESS LINE MOBILE RADIO EQUIPMENT.

MODEL 418A IS MEDIUM IMPEDANCE (1,500 OHMS) AND IS A DIRECT REPLACEMENT FOR THE GENERAL ELECTRIC MODELS EM18A, EM18B, EM18C, AND EM18D FOR USE WITH TRANSISTORIZED PROGRESS LINE (TPL) MOBILE RADIO EQUIPMENT. THE 418A MAY BE USED WITH OR WITHOUT CHANNEL GUARD.

Both the Models 405K and 418A Microphones are especially recommended for all types of outdoor-indoor communication activity in mobile and fixed station use, as in police, fire, utility, forestry, and transportation services; commercial; industrial—including radio telephone, amateur radio and similar applications. The microphones are unusually rugged—suitable for use in the most demanding outdoor and indoor public-address installations.

**Microphone Features:**

- Frequency response from 200 to 4,000 Hz especially tailored for voice communication use
- A light, compact case that fits comfortably and firmly in the palm of the hand
- Extremely rugged high-impact ARMO-DUR® case—both lighter and stronger than die-cast metal cases—comfortable to the touch in hot or cold weather
- Single-throw, double-pole, leaf-type switch designed to stand up under constant usage
- Ruggedness and dependability under all operating conditions
- Long life, tinsel, rubber-jacketed coiled cable

**SPECIFICATIONS**

**Type**  
CONTROLLED MAGNETIC®

**Frequency Response**  
200 to 4,000 Hz



**Load Impedance Range**

	<u>Minimum</u>	<u>Recommended</u>
405K .....	15 kilohms	100 kilohms
418A .....	1500 ohms	10 kilohms

**Output Level (at 1,000 Hz)**

	<u>405K</u>	<u>418A</u>
Open Circuit Voltage* .....	-14.0 dB (200 mV)	-22.5 dB (75 mV)

\*0 dB = 1 volt per 100 microbars

**Switch**

Built-in single-throw double-pole, leaf-type

**Cable**

1.8m (6 ft) attached, tinsel, rubber-jacketed, coiled cable

405K—3-conductor, 1-conductor shielded, with Amphenol type MC4M plug (offset keying)

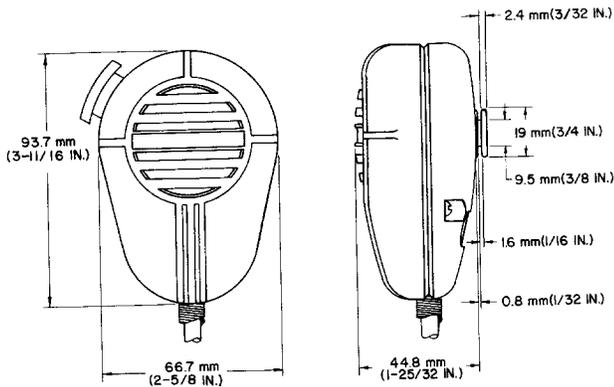
418A—4-conductor, 1-conductor shielded, with Components type 6601-M6 plug

**Case**

High-impact ARMO-DUR®

**Dimensions**

See Figure 1



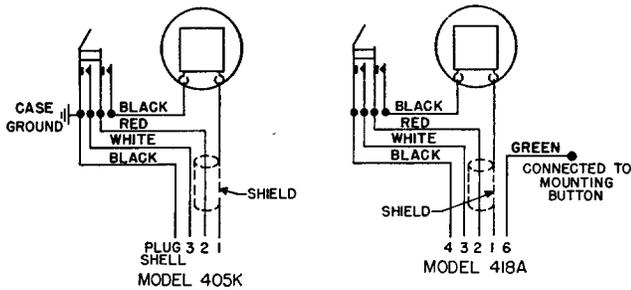
OVERALL DIMENSIONS  
**FIGURE 1**

**Net Weight**

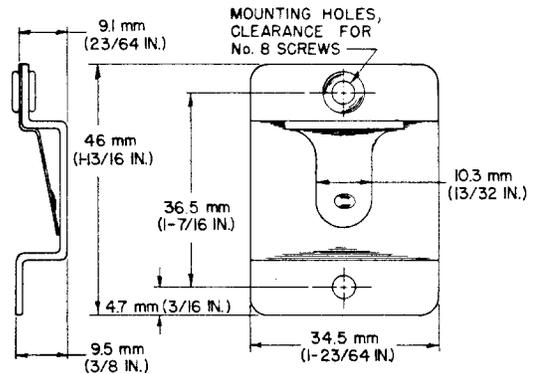
340 grams (12 oz)

**Packaged Weight**

482 grams (17 oz)



INTERNAL CONNECTIONS  
**FIGURE 2**



MOUNTING BRACKET  
**FIGURE 3**

**FURNISHED ACCESSORY**

Mounting Bracket .....RK6MB

**REPLACEMENT PARTS**

	405K	418A
Cartridge .....	R5D	R5C
Cable and Plug Assembly .....	C11C	C27C
On-Off Switch .....	RK8S	RK8S
Case Assembly .....	RK2C	RK1C

**GUARANTEE**

This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor. This guarantee is in lieu of any and all other guarantees or warranties, express or implied, and there shall be no recovery for any consequential or incidental damages.

**SHIPPING INSTRUCTIONS**

Carefully repack the unit and return it prepaid to:  
Shure Brothers Incorporated  
Attention: Service Department  
1501 West Shure Drive  
Arlington Heights, Illinois 60004

If outside the United States, return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.