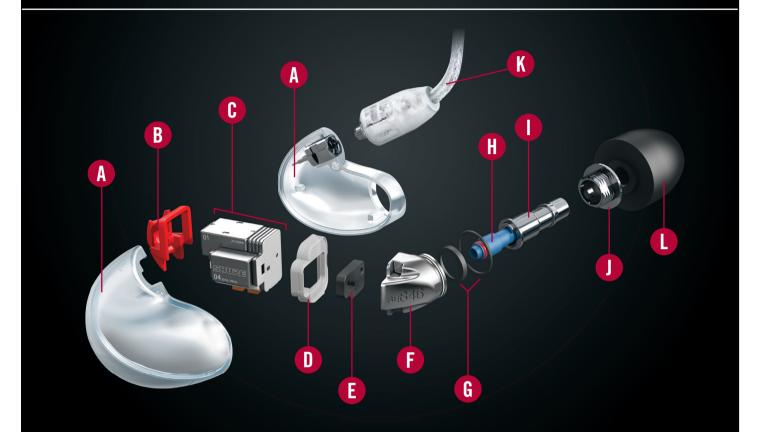


# **SOUND ISOLATING<sup>™</sup> EARPHONES**

# **SE846 Internal Component View**



# **SE846 COMPONENTS**

### **Rugged Ergonomic Housing**

The low-profile design features durable, sweat-resistant construction, built to fit comfortably in the ear and withstand the extremes of on-stage or everyday wear.

## **Driver Carrier**

A

C

D

Indicates right (red) or left side (clear) and securely holds the driver unit in place.

# **Driver Assembly Unit**

Precision engineered component composed of four High-Definition MicroDrivers (dedicated high, mid, and dual low frequency speakers) and ground breaking low-pass Filter design. Acts as the earphone's engine to deliver true subwoofer performance with extended high-end clarity.

### Shock Isolator

Shock protector that guards the MicroDrivers against sudden impact.

## **Driver Acoustic Seal**

Maintains the integrity of the acoustic system while efficiently directing audio to the nozzle.

# Nozzle Interface

Laser etched with the SE846 model number, the nozzle interface joins the acoustic and nozzle seals to the stainless nozzle, efficiently directing the sound to the nozzle.



#### Nozzle Interface Seals

Comprised of two seals that securely integrate the nozzle interface with the stainless nozzle. One is designed for environmental protection against moisture/perspiration, and the other for acoustics.

# Nozzle Insert

Removable filtered tube that sits inside the stainless nozzle. Three options included provide the option to change the sound signature with a shift of about 3-5 dB in the 1 kHz – 8 kHz range.



#### **Stainless Steel Nozzle**

Specially angled metal tube ensures efficient audio delivery and ergonomic fit. Removable for easy cleaning or replacement for customizing frequency response.



# Stainless Steel Threaded Collar

Removable to allow for stainless nozzle replacement and cleaning. Ensures snug/correct fit of the nozzle and nozzle inserts into the nozzle interface unit.

# Detachable Cable

Wireform fit ensures secure placement, detachability for easy replacement or customization, and Kevlar™ reinforced for durability. Worn over the ear.

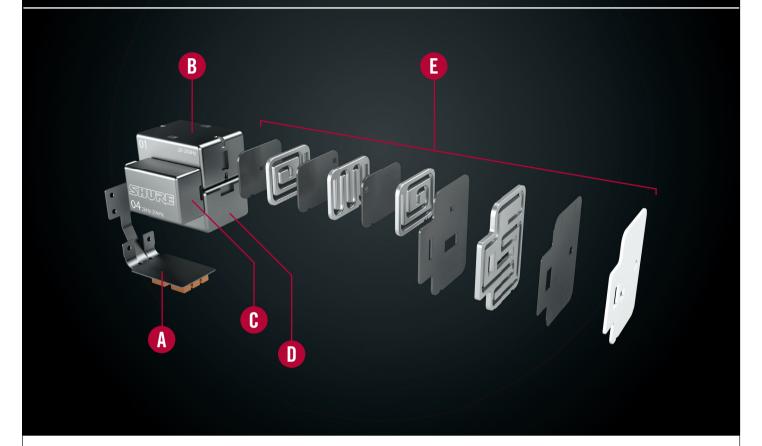
## Sound Isolating<sup>™</sup> Sleeve

selection of foam and flex sleeves create a customized fit and comfortable seal that blocks background noise.



# **SOUND ISOLATING<sup>™</sup> EARPHONES**

# **SE846 Internal Component View**



# **SE846 DRIVER ASSEMBLY INSET**

	-	
	14	
Λ.		

# Internal Three-Way Crossover

Capacitors and resistors built to route specific frequencies to the appropriate MicroDrivers ensuring clarity across the audio spectrum.



ſ.

# Dual Vented Low Frequency MicroDrivers (01 + 02)

Audio signal from these dual MicroDrivers travels though the low-pass filter, allowing low frequency roll-off to begin at 75Hz without introducing distortion and providing true subwoofer performance with deep, accurate bass.

#### High Frequency MicroDriver (04)

Designed for extended high-end clarity and low distortion.



E

# Mid Frequency MicroDriver (03)

Custom-engineered to blend with the low and high frequency drivers. The audio signal is routed through a special microscopic electroform damper fabricated into one of the stainless steel plates in the low-pass filter design, avoiding comb filtering at the crossover regions and providing a smooth, clean presence.

### Low-Pass Filter

Composed of ten small stainless-steel plates laser welded to the front of the driver assembly unit, the ground breaking design forms 4 inches of high acoustic mass path which naturally allows for low frequency roll-off to begin at about 75Hz without distortion or artifacts.