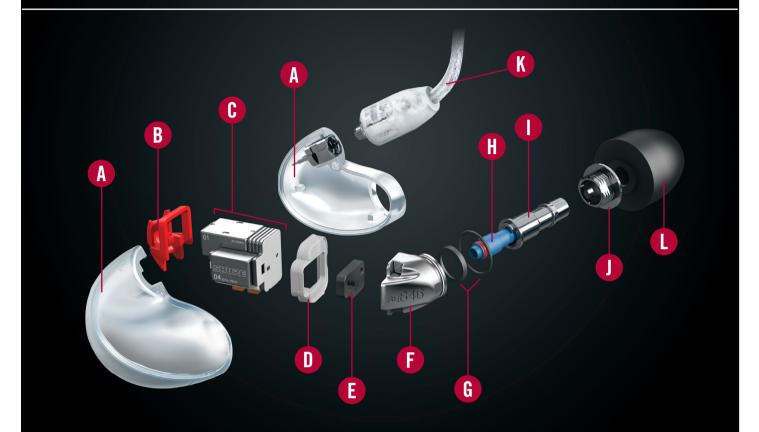


SOUND ISOLATING[™] EARPHONES

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

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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.

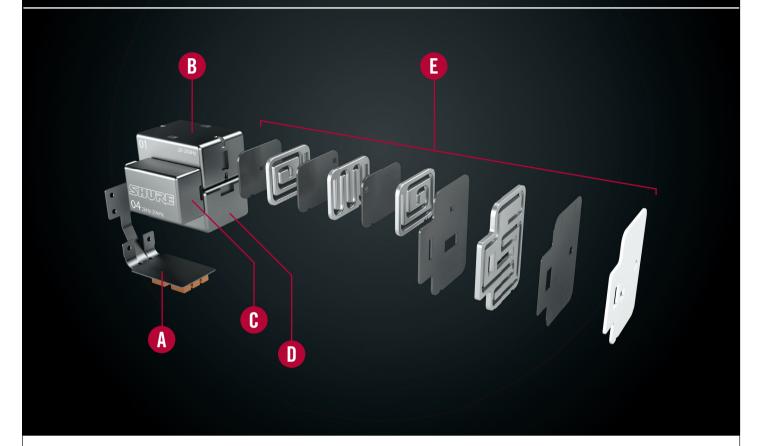
Sound Isolating[™] Sleeve

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



SOUND ISOLATING[™] EARPHONES

SE846 Internal Component View



SE846 DRIVER ASSEMBLY INSET

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Internal Three-Way Crossover

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



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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.



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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.