

GENTEX[®]

WCEP KIT

Wire-Free Communication Earplugs



Advanced Sound Protection, Failsafe Communications

The Gentex[®] Wire-Free Communication Earplugs (WCEP) Kit provides advanced hearing protection in high noise environments for commercial & military aircrew, and ground crew personnel. Operating on the principle of Near Field Magnetic Induction (NFMI), the WCEP Kit improves passive noise attenuation, eliminates snag and hot spots associated with earplug wires, and simplifies helmet donning and doffing. The WCEP Kit also provides an ease of use with CBRN gear by eliminating the need to have wires pass through equipment. The WCEP Kit fits in helmets and headset earcups to provide redundant operations to existing equipment speakers.

KEY FEATURES

Innovative Design

With no wires connected to the earplugs, the WCEP Kit offers maximized comfort through reduced irritation and elimination of hot spots, allowing for enhanced performance, safety and comfort.

Battery-free Operation

The Gentex WCEP Kit does not need batteries or recharging, and no syncing with a transmitter is required. The magnetic, battery-free, wire-free earplug system uses an audio signal to stimulate a coil which initiates signal transmission. Power inherent in the radio audio signal is all the power the system needs, ensuring the earplugs are ready for use at all times.

Redundant Speaker

Audio is available via the existing equipment speakers, even if a user does not have Near Field Magnetic Induction (NFMI) earplugs when they need to use the headset or helmet in which the WCEP Kit are installed.

Seamless Integration

The Gentex WCEP Kit transmitter fits around the existing transducer found in a Gentex helmet system or headset, so no drilling/cutting or refitting of a helmet or headset is required for installation.

Superior Performance

The Gentex WCEP Kit offers reduced irritation and fatigue on the user, while improved sound protection and communications clarity increase mission effectiveness. The earplugs provide double layer hearing protection noise attenuation at a price that is a lower cost alternative to typical Active Noise Reduction (ANR) headsets.

COMPATIBILITY

The Gentex WCEP Kit is compatible with:

- Gentex HGU-56/P Rotary Wing Helmet System
- Gentex HGU-55/P Fixed Wing Helmet System
- Gentex SPH-5 Helmet System
- ALPHA Eagle, ALPHA Mk10R and ALPHA 900 Helmet Systems
- Various other helmets and headsets with communications systems

DIMENSIONS & WEIGHT

- Earplug weight = 6 grams/pair
- Transmitter Coil weight = 50 grams/pair (does not include earphone)
- Transmitter Coil size = 2.4" diameter x 0.5" thick

OTHER INFORMATION

- The NFMI earplugs are shipped with Comply™ Canal Tips and provide a NRR of 30 dB.
- A high visibility orange nanocord is provided for optional use to tether a pair of earplugs together. The high tensile strength, fine 0.75mm cord is included installed on a pair of earplugs and may be worn or may be cut off.

ORDERING INFORMATION

Part Number	Description
N100888-00	WCEP KIT 19Ω 56/P, 56/P, SPH-5
N100888-01	WCEP KIT 19Ω 55/P, 190A
N100888-06	WCEP KIT 19Ω ALPHA EAGLE, Mk10R, 900
N100888-02	WCEP KIT 19Ω DCCI 10-76 HEADSET
N100880-01	NFMI EARPLUG KIT WITH TETHER
N100888-03	NFMI COIL 19Ω 56/P, SPH-5
N100888-04	NFMI COIL 19Ω 55/P, 190A
N100888-07	NFMI COIL 19Ω ALPHA EAGLE, Mk10R 900
N100888-05	NFMI COIL 19Ω DCCI 10-76 HEADSET

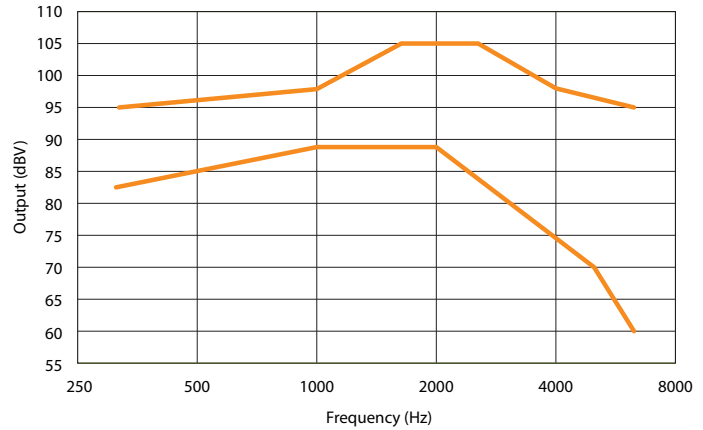
SPECIFICATIONS

System-Level Frequency Response

When the transmitter coil is driven with a 0-dBV input from a 20-ohm output impedance source, with the coil and earplug coaxial and ¼" apart, the sound level produced at the ear shall fall within the limits outlined in the chart below.

- Minimum Rated Power: 100 mW/coil or 200 mW/headset to provide 105 dB SPL at the ear @ 1kHz

WCEP System-Level Frequency Response Limits



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