

Technical data specifications

3M™ PELTOR™ Level Dependent Earplug, LEP-100 EU

Technical data specifications

Model

Microphone Type	Omni-directional
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Earpiece Power / Electrical Characteristics

Earplug Battery Type:	Lithium Ion
Earplug Battery Life:	Up to 16 hours
Earplug Battery Charge Time:	Approximately 90 minutes
Earplug Volume Steps:	3 steps: Low, Medium, High
Case Battery Type:	3 AA Alkaline Batteries
Case Battery Life:	Up to 16 recharging cycles
Case USB Type:	Micro B

Standards

Waterproof Rating:	Complies with IP54 with cover and USB port closed.
SNR	PPE directive 89/686/EEC

Physical Characteristics

Case Size (L x W x H):	114.2 mm x 78.2 mm x 26.9 mm
Case Material:	ABS
Earplug Keypad:	One button operation (On / Off / Volume)
Case Keypad:	One button operation (Charging Status)
RoHS Compliance:	RoHS II
Weight Box containing charger, 2 Earplugs, 4 pair communications earbuds, cord, 3 AA batteries:	272 g
Weight Charger with batteries, 2 earpieces, and cord:	198 g
Weight: Charger	119 g
Weight: 1 earpiece:	4 g

Environmental Characteristics

Operating Temperature Range:	0 to 50°C
Storage Temperature Range:	-20 to 60°C

Laboratory Attenuation

3M™ UltraFit™ Eartips

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	34,5	31,5	36,2	33,4	34,8	34,9	38,8
Standard deviation (dB)	6,0	5,4	5,6	4,3	3,8	5,0	4,0
Assumed Protection Value (dB)	28,5	26,1	30,6	29,1	31,0	29,9	34,8

SNR=32 dB H=31 dB M=30 dB L=29 dB

PELTIP5-01/Torque™ Eartips

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	37,8	36,0	40,5	41,2	41,3	39,6	46,1
Standard deviation (dB)	4,3	5,5	4,2	4,7	3,2	4,3	3,6
Assumed Protection Value (dB)	33,5	30,5	36,3	36,5	38,0	35,3	42,5

SNR=38 dB H=37 dB M=36 dB L=34 dB

⚠ WARNING!

Hearing Protection Products*

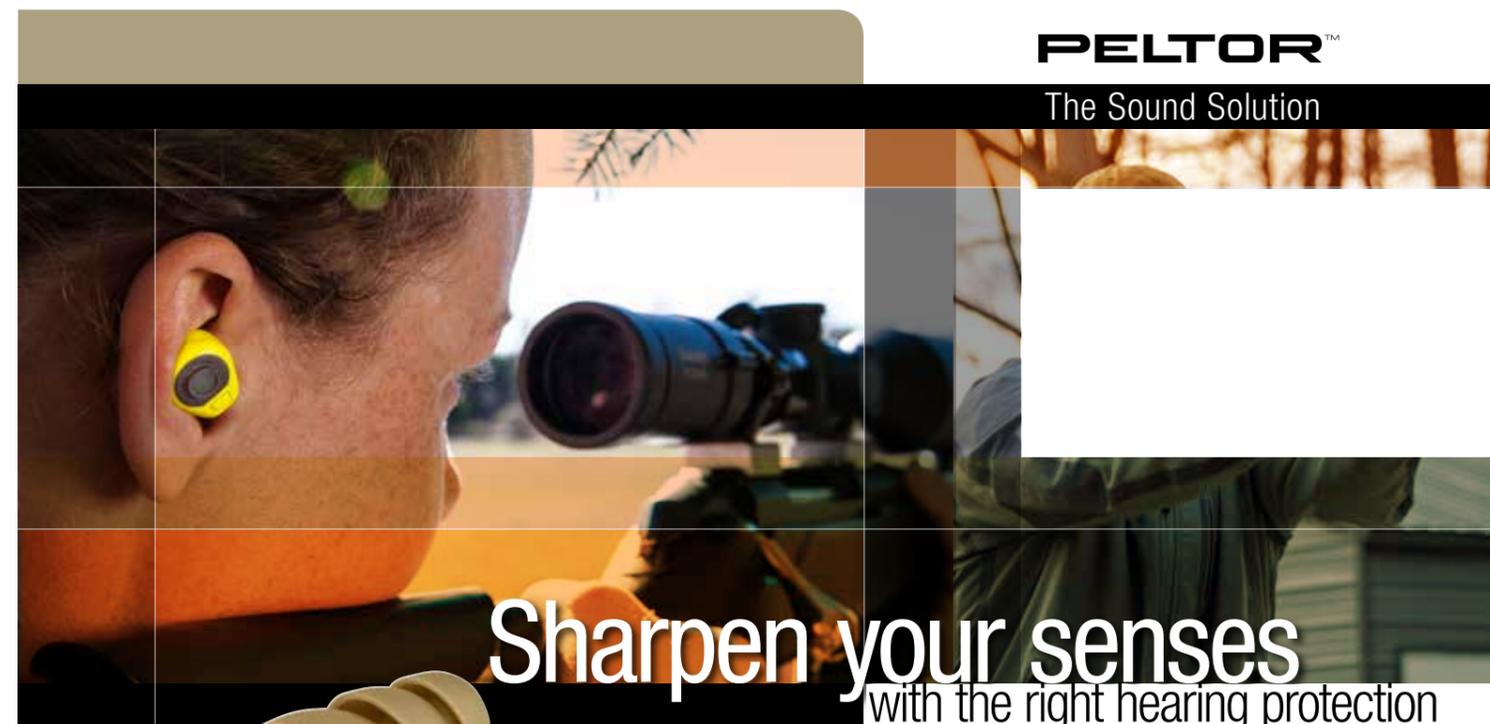
These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury.** For proper use, see supervisor, User instructions, or call 3M Technical Service in the U.S.A at 1-800-243-4630. If there is any drainage from your ear or you have an ear infection, consult with your physician before wearing earplugs. Failure to do so may result in hearing loss or injury.

Choking Hazard - Keep away from infants and small children.

⚠ **CAUTION!** When worn according to the User Instructions, this hearing protector helps reduce exposure to both continuous noises, such as industrial noises and noises from vehicles and aircraft, as well as very loud impulse noises, such as gunfire. It is difficult to predict the required and/or actual hearing protection obtained during exposure to impulse noises. For gunfire, the weapon type, number of rounds fired, proper selection, fit and use of hearing protection, proper care of hearing protection, and other variables will impact performance. If your hearing seems dulled or you hear a ringing or buzzing during or after any noise exposure (including gunfire), or for any other reason you suspect a hearing problem, your hearing may be at risk. To learn more about hearing protection for impulse noise, please visit www.3M.com/hearing.

3M Personal Safety Division

3M™ PELTOR™ Level Dependent Earplug, LEP-100 EU



PELTOR™

The Sound Solution



Integrated with state-of-the-art level-dependent technology, the 3M™ PELTOR™ Earplug, LEP-100 EU helps provide hearing protection and situational awareness in potentially noisy environments. Weak sounds can be amplified allowing you to better hear the game animal approaching or your dogs barking at a greater distance. Noise, including sudden loud noises like a gun shot, is attenuated at high speed before it reaches your ear.

3M

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The power to protect your worldSM

3M



Small, Smart and Effective Hearing Protection

Rechargeable:

Charging contacts recharge the unit while in the case. Li-ion battery provides up to 16 hours of continuous operation.

Button:

Intuitive one-button operation turns unit on, off, and selects volume settings (3).

Hearing Protection:

Replaceable communications eartip helps provide hearing protection in noisy environments. Multiple sizes and types designed to fit most ear canals.

Cord Connection:

Attachment point for optional earplug cord. (included)



Water Resistant:

Innovative design helps protect microphone against water ingress.

Design:

Corner radius designed to help soften contact zone and increase comfort.

Microphone Port:

Helps minimize wind noise

The 3M™ PELTOR™ Level Dependent Earplug helps protect your hearing, and can help improve situational awareness and communications in challenging environments. Integrated with state-of-the-art level-dependent technology, the LEP-100 EU helps provide hearing protection in noise and situational awareness in quiet environments.

Optimized protection

The 3M™ PELTOR™ Level Dependent Earplug is a level dependent hearing protector, meaning it enables listening to the surrounding environment but attenuates loud harmful noise. The earplug attenuates SNR 32 decibels and has surround microphones that capture external sound with great accuracy. The sound is analyzed at high speed before it reaches your ear. Weak sounds can be amplified while noise, including sudden loud noises like a gun shot, is attenuated. The unique digital sound circuit reacts instantaneously, helping protect your hearing in a subtle way so that you rarely hear the sudden muting as the protection is activated.

Stay focused

The small and lightweight design combined with comfort and ease of use helps improve overall user experience. This is essential as any form of distraction may affect your performance no matter if you are on the shooting range or hunting. The 3M™ PELTOR™ Level Dependent Earplug is easy to use and comfortable to ensure you'll have no problems staying focused.

Enhanced hearing

The well positioned, sensitive microphones have been carefully designed to help provide a sound that is as natural as possible. Sounds are reproduced in full stereo, helping you to detect their origin. But not only that. Weak sounds can be amplified up to two times compared to your normal hearing allowing you to better hear the game animal approaching or your dogs barking at a greater distance.



Portable Charging Compartment:

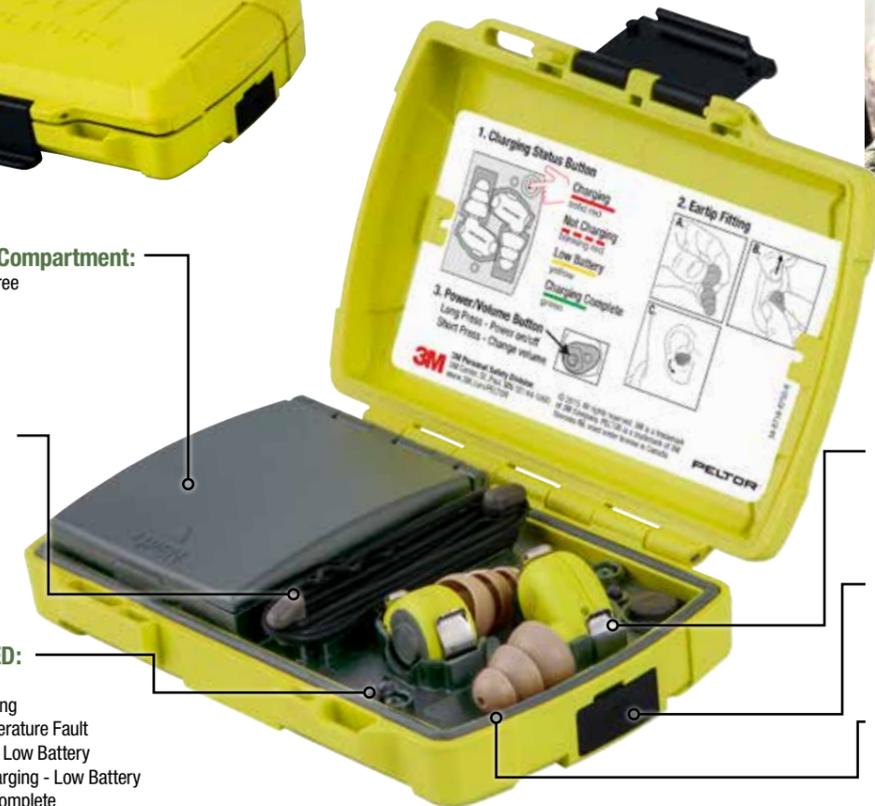
Up to 16 charges from three AA alkaline batteries.

Retention Cord Storage Posts:

Provides convenient and tangle-free storage for earplug cord.

Charging Status LED:

Solid red = Charging
 Blinking red = Not Charging
 Fast blinking red = Temperature Fault
 Solid yellow = Charging - Low Battery
 Blinking yellow = Not Charging - Low Battery
 Solid green = Charging Complete



Earplug Clips:

Steel clips secure earplugs and ensure contact for charging.

Micro B USB Charging Port:

Use a computer or external power supply to charge the earplugs via the included USB cable.

Sealing Ring:

Rubber sealing ring helps protect earplugs in wet and dirty environments.