

# Technical data specifications

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

## Technical data specifications

Model	
Microphone Type	Omni-directional

### 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 / Mode Selection)
Case Keypad:	One button operation (Charging Status)
RoHS Compliance:	RoHS II
Weight Box containing charger, 2 Earplugs, 4 pair communications eartips, 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



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## 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\*

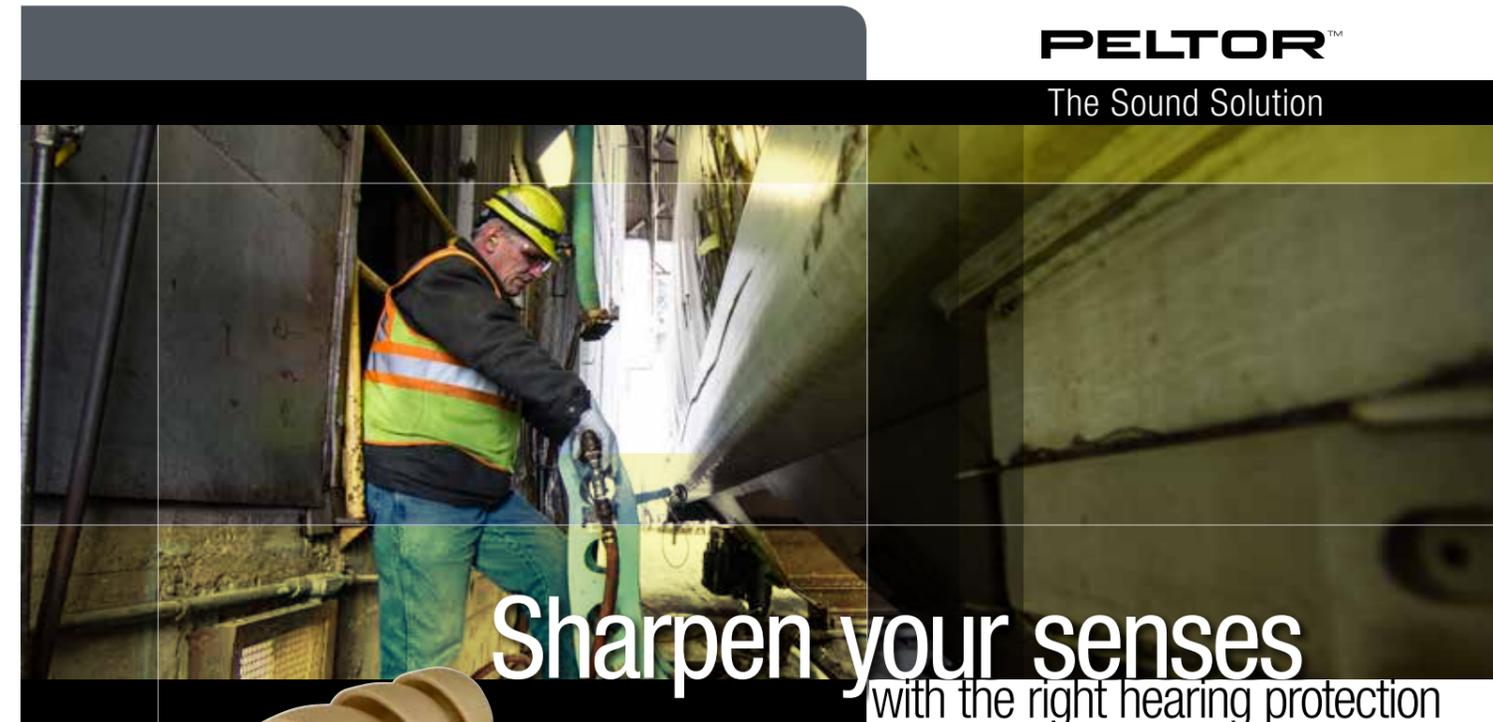
These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury.** For proper use, see supervisor, User instructions, or call 3M Technical Service in 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](http://www.3M.com/hearing).

3M Personal Safety Division

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**PELTOR™**

The Sound Solution

Sharpen your senses  
with the right hearing protection



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

The power to protect your world<sup>SM</sup>





# 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:

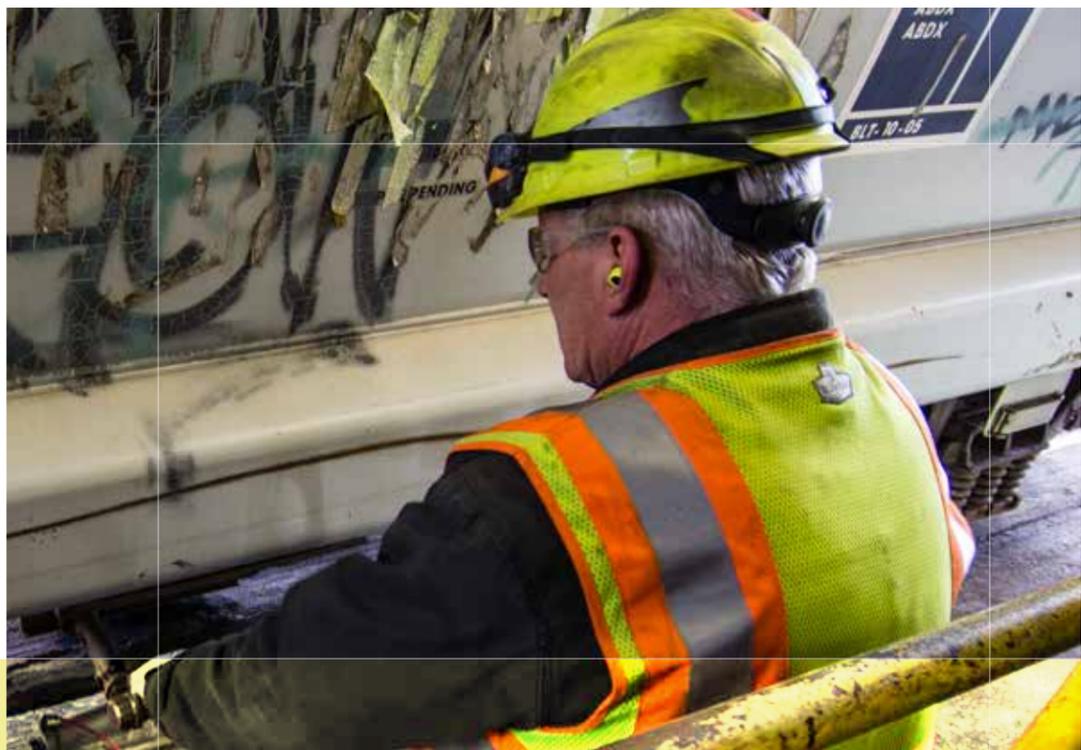
Innovative design helps protect microphone against water ingress.

## 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.



## Communication

3M™ PELTOR™ Level-Dependent Technology helps provide hearing protection in noise and improves communication in quiet. Protecting hearing and improving situational awareness can help increase safety and improve productivity.

## Compatibility

3M™ PELTOR™ Level Dependent Earplug is compatible with most headborne 3M™ Personal Protective Equipment (PPE) such as helmets, hardhats, and face shields.

## Comfort

The small and lightweight design helps improve overall comfort and user experience.



## Portable Charging Compartment:

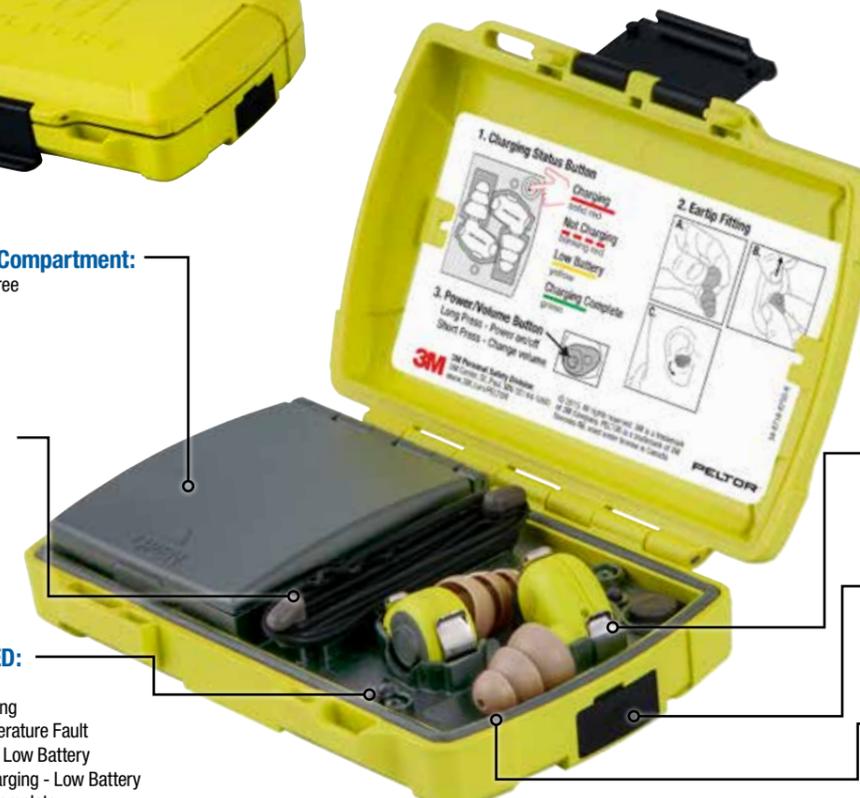
Up to 16 charges from three AA alkaline batteries.

## 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.