

# 3M™ PELTOR™ Electronic Earplug, EEP-100 EU

## Product Description

The 3M™ PELTOR™ Electronic Earplug helps protect your hearing, and can help improve situational awareness and communications in challenging environments.

The earpieces are rechargeable via a USB jack on the charging case. The case also provides easy and convenient storage of the earpieces when not being used.

The small and lightweight design helps improve the overall comfort and user experience, and makes it compatible with most head borne 3M Personal Safety Equipment (PPE), such as helmets and face shields.

## Key Features

- Helps provide hearing protection
- Level-dependent function (for situational awareness)
- Intuitive one-button operation
- Rechargeable
- Durable storage and charging case (IP54)
- Small and lightweight design
- Compatible with most head-borne 3M Personal Protective Equipment

## Common Applications

Construction, Maintenance, Manufacturing, Shooting

## Standards and Approvals

Hereby, 3M Svenska AB declares that the PPE type headset is in compliance with Regulation (EU) 2016/425 or Community Directive 89/686/EEC and other appropriate directives to fulfill the requirements for the CE marking.

The applicable legislation can be determined by reviewing the Declaration of Conformity (DoC) at [www.3M.com/peltor/doc](http://www.3M.com/peltor/doc). The product has been tested and approved in accordance with EN 352-2:2002 and EN 352-7:2002.

These PPE products are audited annually (if Category III products) and type approved by Finnish Institute of Occupational Health, Notified Body No. 0403, Topeliuksenkatu 41 b, FI-00250 Helsinki, Finland.



## Models:

| Article number | Description                                | 3M ID number |
|----------------|--|--------------|
| EEP-100 EU     | 3M™ PELTOR™ Electronic Earplug, EEP-100 EU | 70071730785  |

## Accessories and Spare parts

|                |  |             |
|----------------|--|-------------|
| TEP-CORD       | 3M™ PELTOR™ Tactical Earplug Replacement Cord                  | 70071673795 |
| 370-TEPL-25    | 3M™ UltraFit™ Communication Tips Replacement, Large, 25 pairs  | 70071673746 |
| 370-TEPM-25    | 3M™ UltraFit™ Communication Tips Replacement, Medium, 25 pairs | 70071673738 |
| 370-TEPS-25    | 3M™ UltraFit™ Communication Tips Replacement, Small, 25 pairs  | 70071673720 |
| PELTIP5-01     | 3M™ Torque™ Eartips, 50 pairs                                  | XH001679626 |
| CCC-GRM-25     | 3M™ PELTOR™ Communication Tip, Triple C, 25 pairs              | 70071675212 |
| TEP-WINDSCREEN | 3M™ PELTOR™ TEP/LEP WINDSCREEN FOAM                            | 70071675907 |

# Technical data specifications

## 3M™ PELTOR™ Electronic Earplug, EEP-100 EU

### Technical data specifications

#### Model

Microphone Type: Omni-directional

#### Earplug Power / Electrical Characteristics

Earplug Battery Type: Lithium Ion  
 Earplug Battery Life: Up to 16 hours  
 Earplug Battery Charge Time: Approximately 180 minutes  
 Earplug Volume Steps: 3 steps, Low, Normal, High  
 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): 89.6mm x 61.6mm x 27.3mm  
 Case Material: ABS  
 Earplug Keypad: One button operation (On / Off / Volume Selection)  
 RoHS Compliance: RoHS II  
 Weight Box containing charger, 2 Earplugs, 4 pair communications Eartips, USB cable: 240 g  
 Weight: Charger: 57.1 g  
 Weight: 1 earpiece: 4 g

#### Environmental Characteristics

Storage temp (complete kit):  
 1 Year: -20 to +20°C  
 3 Month: -20 to +45°C  
 1 Month: -20 to +60°C  
 Earpiece Operating temp: -20 to +50°C  
 Charger Operating temp: 0 to +45°C

### Laboratory Attenuation

Research suggests that users may receive less noise reduction than indicated by the attenuation value(s) on the packaging, due to variation in fit, fitting skill, and motivation of the user. Refer to your applicable regulations for guidance on how to adjust label values and estimate attenuation. In addition, 3M strongly recommends fit testing of hearing protectors.

#### 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 (not incl.)

| 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

#### CCC-GRM-25 Eartips

| Frequency (Hz)                | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
|-------------------------------|------|------|------|------|------|------|------|
| Mean Attenuation (dB)         | 35,5 | 32,5 | 37,1 | 38,0 | 37,6 | 39,5 | 45,5 |
| Standard deviation (dB)       | 4,5  | 4,0  | 4,4  | 3,7  | 2,9  | 4,6  | 4,2  |
| Assumed Protection Value (dB) | 30,9 | 28,4 | 32,7 | 34,3 | 34,6 | 34,9 | 41,3 |

SNR=36 dB H=35 dB M=34 dB L=32 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).

#### Warranty:

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the user instruction. For complete warranty condition, contact your dealer or local 3M office

#### Important Notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M.

The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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