

# Technical Data Specifications



PELTOR™

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

### Product Description

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 helps provide hearing protection in noise and situational awareness in quiet environments.

### Key Features

- Helps provide hearing protection
- Level-dependent function (for ambient listening)
- Intuitive one-button operation
- Rechargeable

### Applications

Construction, Maintenance, Manufacturing, Hunting / Shooting.

### Standards and Approvals

Level Dependent Ear plug is in compliance with the essential requirements and other relevant provisions of the PPE directive 89/686/EEC, the EMC directive 2004/108/EC and the RoHS directive 2011/65/EU. It thereby fulfills the requirements for CE marking. A copy of the declaration of conformity can be obtained by contacting 3M in the country of purchase. The product has been tested and approved in accordance with EN 352-2:2002, EN 352-7:2003, EN 55022:2010 +AC:2011 Class B, EN 55024:2010, EN 61000-6-2:2005 +AC:2005, EN 61000-6-3:2007 +A1:2011 and EN 50581:2012



### Models:

Article number	Description	3M ID number
LEP-100-EU	3M™ PELTOR™ LEP-100 EU Level Dependent Earplug Kit	7100075598

### Accessories and Spare parts

TEP-CORD	3M™ PELTOR™ Tactical Earplug Replacement Cord	7100074090
LEP-100E	3M™ PELTOR™ Replacement Earpiece	-
LEP-100C	3M™ PELTOR™ Tactical Earplug Replacement Case	-
370-TEPL-25	3M™ UltraFit™ Communication Tips Replacement, Large, 25 pairs	7100066388
370-TEPM-25	3M™ UltraFit™ Communication Tips Replacement, Medium, 25 pairs	7100066387
370-TEPS-25	3M™ UltraFit™ Communication Tips Replacement, Small, 25 pairs	7100066371
PELTIP5-01	3M™ Torque™ Eartips, 50 pairs	XH001679626



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#### Model

Microphone Type	Omni-directional
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#### Earplug 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

### Laboratory Attenuation

#### 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

Operating Temperature Range:	0 to 50°C
Storage Temperature Range:	-20 to 20°C (1 year)
	-20 to 45°C (3 months)
	-20 to 60°C (1 month)

#### ⚠ 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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