



3M™ PELTOR™ TEP-100 Tactical Earplug

Product Description



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

Compatibility

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

Key Design Features

Water Resistant: Innovative design helps protect microphone against water ingress.

Microphone Port: Helps minimize wind noise.

Cord Connection: Attachment point for optional breakaway earplug retention cord (included).

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

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

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

Button: Intuitive one-button operation turns unit on, off, and selects volume settings (2).

USB Charging Port: USB-C® port charges earplugs when plugged into a computer or wall socket.

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 help maintain contact between the earplugs and the charging connection while the earplugs are in the case.

Portable Charging Compartment: Up to 16 charges from 3 AA alkaline batteries.

Sealing Ring: Rubber sealing ring on the charging case helps protect earplugs in wet and dirty environments.

Retention Cord Storage Posts: Provides convenient and tangle free storage for breakaway earplug retention cord.

Fit Testable: Can be fit tested using the 3M™ E-A-Rfit™ Dual-Ear Validation hearing protector fit testing system.

Technical Data Specifications

Model: 3M™ PELTOR™ TEP-100 Tactical Earplug

Microphone Type: Omni-directional

Earpiece Power/Electrical Characteristics

Specification	Details
Earpiece Battery Type	Lithium ion
Earpiece Battery Life	Up to 16 hours
Earpiece Battery Charge Time	Approximately 90 minutes
Earpiece Volume Steps	2 steps, Low and High
Max Continuous Output Sound Level	TEP-100: < 80 dBA*
Case Battery Type	3 AA Alkaline Batteries
Case Battery Life	Up to 16 recharging cycles
Case USB Type	USB-C

*Amplification limited to 80 dBA (TEP-100) equivalent at the ear when continuous or steady-state noise levels are < 110 dBA. The passive attenuation provided by the product may not be suitable at higher noise levels exceeding this threshold. Always follow all local regulations and laws when selecting hearing protection based on the labeled attenuation performance values of the product. 3M strongly recommends individual fit testing of hearing protectors.

Standards

Specification	Details
Waterproof rating	Complies with IP67 with cover and USB ports closed
Noise Reduction Rating (NRR)	Tested in accordance with ANSI S3.19-1974
Noise Level Reduction Statistic for use with A-weighting (NRSA)	Tested in accordance with ASA/ANSI S12.6-2016*
Environmental Performance	Tested IAW relevant environmental sections of test procedures in MIL-STD-810G
Electromagnetic Interference	Tested in accordance with applicable parts of MIL-STD-461G

*ASA/ANSI S12.6-2016 attenuation test data available upon request.

Physical Characteristics

Specification	Details
Case Size (L x W x H)	4.5" long x 3.1" wide x 1.1" thick (114.2 mm x 78.2 mm x 26.9 mm)
Case Material	ABS

Specification	Details
Earpiece Keypad	One button operation (On / Off / Mode Selection)
Case Keypad	One button operation (Charging Status)
RoHS Compliance	RoHS II
Weight: Box containing charging case, 2 earpieces, 4 pair communications eartips, breakway tension cord, 3 AA batteries	9.6 oz
Weight: Charging case with batteries, 2 earpieces, and cord	7.0 oz
Weight: Charging case	4.2 oz
Weight: 1 earpiece	0.13 oz

Environmental Characteristics

Specification	Details
Operating Temperature Range	0 to 122°F (0 to 50°C)
Storage Temperature Range	1 year at -4 to 68°F (-20 to 20°C) 3 months at -4 to 113°F (-20 to 45°C) 1 month at -4 to 140°F (-20 to 60°C)

Laboratory Attenuation

Table 1: 3M™ UltraFit™ Communication Eartips

										ANSI S.319-1974	
Test Frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean attenuation (dB)	36.2	33.7	34.7	32.0	34.5	37.4	35.6	38.0	37.5	23	AL
Standard Deviation (dB)	5.1	5.2	5.5	3.9	3.4	5.3	6.5	4.4	5.4		

Table 2: 3M™ PELTOR™ CCC-GRM-25 Communication Eartips

										ANSI S.319-1974	
Test Frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean attenuation (dB)	34.5	30.6	36.3	35.2	35.5	38.6	37.6	44.6	45.7	27	AL
Standard Deviation (dB)	4.2	3.9	4.1	3.0	3.5	3.3	3.8	3.6	4.3		

Table 3: 3M™ Skull Screws™ Communication Eartips (not included)

										ANSI S.319-1974	
Test Frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean attenuation (dB)	36.3	35.7	39.8	41.4	40.4	43.0	41.9	48.2	46.0	30	AL
Standard Deviation (dB)	5.3	5.5	5.5	4.2	3.4	4.6	3.5	4.6	4.2		

Table 4: Impulse Peak Insertion Los (IPIL) Test Results

Nominal Impulse Peak Level (dB SPL)	Impulse Peak Insertion Loss (dB)	Standard Deviation (dB)
132	25.2	1.7
150	38.9	1.7
168	44.1	0.9

Device: TEP-100 Production with Medium UltraFit Tip (P/N 900-0249)

Tested in accordance with ANSI/ASA S12.42-2010

** IMPORTANT**

Impulses at the 132 dB test level do not meet the A-duration requirements of ANSI/ASA S12.42-2010.

Parts and SKUs

Part Number	SKU	Description	NSN
TEP-100	70-0716-5628-7	3M™ PELTOR™ TEP-100 Tactical Earplug Kit	5965016640961

Part Number	SKU	Description	NSN
TEP-CORD	70-0716-7379-5	3M™ PELTOR™ Tactical Earplug Replacement Cord	N/A
TEP-100E	70-0716-5025-6	3M™ PELTOR™ Replacement Earpiece	5965016724738
TEP-100C	70-0716-5026-4	3M™ PELTOR™ Tactical Earplug Replacement Case	5895016724773
370-TEPS-25	7100066371	3M™ PELTOR™ UltraFit™ Communication Tip Replacement, Small, 25 Pair	5965016724767
370-TEPM-25	7100066387	3M™ PELTOR™ UltraFit™ Communication Tip Replacement, Medium, 25 Pair	5965016724749
370-TEPL-25	7100066388	3M™ PELTOR™ UltraFit™ Communication Tip Replacement, Large, 25 Pair	5965016724787
370-1019-10	7000128201	3M™ PELTOR™ Skull Screws™ Communication Tip Replacements, 10 Pair	N/A
CCC-GRM-25	7100103087	3M™ PELTOR™ Triple-C Communication Eartips, 25 Pair	N/A

Warranty and Important Notice

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

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Personal Safety Division
3M Center
Building 235-2W-70
St. Paul, MN 55144-1000

3M PSD products are occupational use only.

3M Canada
P.O. Box 5757
London, Ontario
N6A 4T1

In United States of America

Technical Service: 1-800-665-2942
Customer Service: 1-800-328-1667
Web: 3M.com/PELTOR
E-mail: PELTOR.comms@mmm.com

In Canada

Technical Service: 1-855-484-3093
Customer Service: 1-800-410-6880
E-mail: PELTOR.comms.canada@mmm.com

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