Technical Data Specification

Technical Specifications

Speech Microphone Type:	
In Ear	

Power / Electrical Characteristics:	
Earplug Battery Type:	Lithium Ion
Operating time:	Approximately 10 hours
Earplug Battery Charge Time:	Approximately 60 minutes
Case Battery Type:	3 AA or AAA Alkaline Batteries
Case Battery Life:	Up to 16 recharging cycles with AA batteries
Case USB Type:	Micro C 3.1

Near Field Magnetic Induction (NFMI):	
Transmission rate:	596 kbit/s
Range:	Approximately 50 cm (20 in)
Frequency:	9.8 - 11.7Mhz

Physical Characteristics:	
Case Size (L x W x H):	114.2mm (4.4 in) x 78.2mm (3 in) x 29mm (1.1 in)
Case Material:	ABS
Weight Charger with batteries, 2 earpieces:	188 g (6.6 Oz)
Weight Charger:	104 g (3.6 Oz)
Weight 1 earplug:	4.7 g (0.16 Oz)

Environmental Characteristics:	
Earpiece operating temp:	-4°F / -20°C to 122°F / 50°C
Charger operating temp:	32°F / 0°C to 113°F /45°C
Shelf Life:	Max 12 months
Waterproof Rating :	Earpiece and Case (with lid and USB port securely closed) are rated IP68

Recommended Storage Conditions (<90% humidity):	
1 year:	-4°F / -20°C to 68°F / 20°C
3 months:	-4°F / -20°C to 113°F / 45°C
1 month:	-4°F / -20°C to 140°F / 60°C

Environmental Performance:
Tested in accordance with MIL- STD-810G

Electromagnetic Interference:
Tested in accordance with MIL STD 461G

Hazards of Electromagnetic Radiation to Ordnance (HERO), Personnel (HERP), and Fuel (HERF):
Evaluated against applicable limits outlined in MIL-STD-464C

Noise Reduction Rating (NRR) tested in accordance with ANSI S3.19-1974

Impulsive Peak Insertion Loss (IPIL) tested in accordance with ANSI/ASA S12.42-2010



Laboratory Attenuation Values***

Tactical Earplug, TEP-300 - CCC-GRM-25

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	35.0	31.8	37.4	37.4	36.0	39.2	40.4	44.9	45.8	27	AL
Standard Deviation (dB)	4.6	4.2	5.2	5.1	3.3	4.9	4.8	3.6	2.9		

Tactical Earplug, TEP-300 - Skull Screw

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	35.7	35.0	40.7	39.0	38.3	41.7	41.4	44.0	45.9	30	AL
Standard Deviation (dB)	5.4	5.2	5.4	3.9	2.5	4.4	3.7	4.1	4.1		

Tactical Earplug, TEP-300 - UltraFit

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	34.3	31.9	35.2	34.1	34.5	38.6	35.5	38.2	39.3	23	AL
Standard Deviation (dB)	6.1	6.1	6.1	5.2	4.8	4.4	3.9	3.9	3.0		

*** U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. It is recommended that the NRR be reduced by 50% to better estimate typical protection.

TEP-300 meets the single hearing protection requirement listed in DA PAM 40 501 Army Hearing Conservation Program 2015 for both steady-state and impulse noise.

Models:

Part Number	Description	Legacy 3M ID	SAP ID	Color
TEP-300 CY	3M™ PELTOR™ Tactical Earplug, TEP-300 CY, Coyote Brown	70-0717-3429-0	7100227650	
TEP-300 GE	3M™ PELTOR™ Tactical Earplug, TEP-300 GE, Grey	70-0717-3431-6	7100227633	
TEP-300 TN	3M™ PELTOR™ Tactical Earplug, TEP-300 TN, Tan	70-0717-3428-2	7100227637	

Accessories and Spare parts

Part number	Description	Legacy 3M ID	SAP ID
TEP-300R CY	3M™ PELTOR™ Replacement Earplug, TEP-300R CY, Right, Coyote Brown	70-0717-3433-2	7100227632
TEP-300L CY	3M™ PELTOR™ Replacement Earplug, TEP-300L CY, Left, Coyote Brown	70-0717-3441-5	7100227644
TEP-300R TN	3M™ PELTOR™ Replacement Earplug, TEP-300R TN, Right, Tan	70-0717-3440-7	7100227649
TEP-300L TN	3M™ PELTOR™ Replacement Earplug, TEP-300L TN, Left, Tan	70-0717-3439-9	7100227647
TEP-300R GE	3M™ PELTOR™ Replacement Earplug, TEP-300R GE, Right, Grey	70-0717-3438-1	7100227648
TEP-300L GE	3M™ PELTOR™ Replacement Earplug, TEP-300L GE, Left, Grey	70-0717-3437-3	7100227645
TEP-300C GE	3M™ PELTOR™ Replacement Case, TEP-300C GE, Grey	70-0717-3436-5	7100227638
TEP-300C CY	3M™ PELTOR™ Replacement Case, TEP-300C CY, Coyote Brown	70-0717-3435-7	7100227630
TEP-300AD	3M™ PELTOR™ TEP-300AD, Battery adapter AAA	70-0717-3434-0	7100227631
CCC-GRM-25	3M™ PELTOR™ Communication Tip, Triple C, 25 pairs	70-0716-7521-2	7100103087
370-TEPL-25	3M™ UltraFit™ Communication Tips Replacement, Large, 25 pairs	70-0716-7374-6	7100066388
370-TEPM-25	3M™ UltraFit™ Communication Tips Replacement, Medium, 25 pairs	70-0716-7373-8	7100066387
370-TEPS-25	3M™ UltraFit™ Communication Tips Replacement, Small, 25 pairs	70-0716-7372-0	7100066371
370-1019-10	Skull Screw™, Comm Ear Tips, 10 pr/cs	70-0716-1527-5	-
TEP-CORD	3M™ LEP/TEP/EEP Cord	70-0716-7379-5	7100074090

CAUTION:
When worn according to these User Instructions, these hearing protectors 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.
To learn more about hearing protection for impulse noise, visit www.3M.com/hearing.

WARNING!
These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protection at all times that you are exposed to noise may result in hearing loss or injury.** For correct use, consult supervisor and User Instruction, or call 3M PSD Technical Service in the USA at 1-800-665-2942.

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.

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

For more information:
Technical Service 1-800-665-2942
Customer Service 1-800-328-1667
3M.com/PELTOR

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