

3M™ PELTOR™ ProTac™ III Slim & ProTac™ III Headset

Technical Data Sheet

Description

The 3M™ PELTOR™ ProTac™ III hearing protector helps protect against harmful noise, whilst allowing ambient sounds to be heard*. It increases your ability to communicate with nearby colleagues, as well as hearing warning signals, approaching vehicles, or sounds in machines and processes.

Applications

The 3M™ PELTOR™ ProTac™ III hearing protectors offer a level dependent function for ambient listening to be used in noisy areas. Can be used for work in industrial areas, construction site and other areas where you need to be able to hear sounds in your surroundings. They also protect the user with loud impact noise.

Features

- Available in two different cup sizes: Slim & Regular Versions
- Attenuating hearing protector
- Level-dependent function for ambient listening
- 3.5 mm listen only stereo input* for connection to external devices (e.g. cell phone, two-way radio).
- Voice guided menu system
- Auto power off: The headset will turn off after 4 hrs of non-use to save battery
- Low-battery warning at low battery level
- To reduce the corrosion caused by sweat the electronics are located in the outer part of the cup
- Available in both in headband and helmet attached versions (black)
- Compatible with 3M™ E-A-Rfit validation system

Standards

These 3M™ PELTOR™ Headsets have been tested by an accredited laboratory in accordance with the requirements specified in the Australian/New Zealand Standard AS/NZS1270:2002.

Declaration(s) of Conformity are available at www.3M.com/Hearing/certs.



MT13H220A
(Slim Headband)



MT13H220P3E
(Slim Helmet)



MT13H221A
(Regular Headband)



MT13H221P3E
(Regular Helmet Attach)



Hearing protection with level-dependent function for ambient listening



Hearing protection with external audio input.



Testable with the 3M™ E-A-Rfit™ Dual-Ear Validation System. Visit www.3m.com.au/earfit

*For user protection, output from headset is not above 82 dB for all sources at a maximum power of 300mV RMS.

Quick Reference

	3M™ Peltor™ ProTac™ III Slim & ProTac™ III Regular Headsets			
	MT13H220A Slim Headband	MT13H220P3E Slim Helmet Attach	MT13H221A Regular Headband	MT13H221P3E Regular Helmet Attach
Attenuation Data				
SLC80	26dB	24dB	32dB	30dB
Class	5	4	5	5
Tested to	AS/NZS1270:2002	AS/NZS1270:2002	AS/NZS1270:2002	AS/NZS1270:2003
Physical Properties				
Clamp Force	11.1 N	11.1 N	11.1 N	12 N
Weight (Batteries Included)	303g	322g	355g	374g
Material Listing				
Cup	ABS Plastic			
Headband	PVC, PA, Stainless Steel Wire	N/A	PVC, PA, Stainless Steel Wire	N/A
Helmet Attachment Arm	N/A	Stainless Steel Wire	N/A	Stainless Steel Wire
Two-Point Fastener	POM			
Cushion	PVC foil and PUR foam			
Insert (Liner)	PUR foam			
Level Dependent Microphone for Ambient Listening	PUR foam			
Latch	PA			
On/Off/Mode/+/- Button	TPE			
Specifications				
Battery Type	2xAA Alkaline batteries			
Operating Time	Approximately 100 hours of battery lifetime			
Wired connectivity	3.5mm listen-only stereo input jack*			
Microphone/ Type	N/A			
Operating temperature	-20°C (-4°F) to 50°C (122°F) (battery dependent)			
Storage temperature	-20°C (-4°F) to 40°C (104°F) <90% humidity			
Product lifetime	Up to 5 years (excl. batteries)			
Other				
Colour	Black			
Hygiene Kit	HY220			
Compatible with 3M™ E-A-Rfit™ Validation System	Yes			
Helmet Attachment Backplate	N/A	On Product P3E (30mm)	N/A	On Product P3E (30mm)

Use limitation: Never modify or alter this product.

*For user protection, output from headset is not above 82 dB for all sources at a maximum power of 300mV RMS.

Fitting Instructions

Inspect the hearing protector before each use. If damaged, select an undamaged hearing protector or avoid the noisy environment.

When additional personal protective equipment is necessary (e.g. safety glasses, respirators, etc.), select flexible, low profile temples or straps to minimize interference with the earmuff cushion. Remove all other unnecessary articles (e.g. hair, hats, jewelry, headphones, hygiene covers, etc.) that could interfere with the seal of the earmuff cushion and reduce the protection of the earmuff.

Headband Headset

To fit the hearing protector:

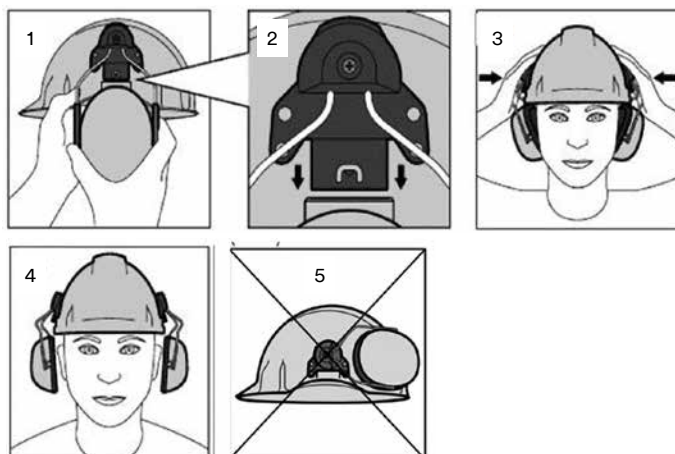
1. Slide out the cups and tilt the top of the cup out, as the cable must be on the outside of the headband (Fig 1).
2. Pull the cups apart and place the ear muffs over the ears so that the cushions form a snug seal around the ears.
3. Adjust the height of the cups by sliding them up or down while holding the headband in place (Fig 2).
4. The headband should be positioned across the top of your head (Fig 3).



Helmet Attach Headset

To fit the hearing protector:

- **Fit the cup:** Push the attachment blade firmly into the slot on the side of the helmet until it clicks into place (Fig 1 & 2)
- **Working position:** With the cups over the ears press the arms inwards until you hear a click on both sides indicating a firm seal (Fig 3).
- **Stand-by position:** Lift the cups to the fixed stand-by position. In a noisy environment the ear muffs must be worn in the working position at all times (Fig 4).
- **Parking position:** First lift the cups to the stand-by position (Fig 4), then rotate them up to the next fixed position.
- **Ventilation mode:** Avoid placing the cups against the helmet as this prevents ventilation (Fig 5).
- **Storage Position:** When the helmet is not in use, lower the earmuffs and press them inward. Keep the cups clean and dry and store at normal room temperature.



Fit Check

When hearing protectors are correctly worn, your voice should sound hollow and sounds around you should not sound as loud as before.

Hearing Protector Fit Testing the 3M™ E-A-Rfit™ Dual-Ear Validation System

The success of your hearing conservation program requires more than offering earplugs or earmuffs. Each worker needs to wear the most effective hearing protector for the environment and the correct fit for their unique anatomy.

With 3M™ E-A-Rfit™ Dual-Ear Validation System, you can quickly identify how much protection each worker receives from their 3M hearing protectors.

The Technology Behind 3M™ E-A-Rfit™

The 3M™ E-A-Rfit™ Dual-Ear Validation System is based on Field Microphone-In-Real Ear (F-MIRE) technology that measures the effectiveness of hearing protectors from inside a worker's ears, providing accurate, quantitative results.

The tester wears a pair of modified 3M™ probed hearing protectors connected to a dual-element microphone. A loudspeaker is placed in front of the tester. When it emits a broadband noise, the dual-element microphone measures the signal in the ear canal and outside the ear plug. In less than five seconds, the difference between the two measurements is calculated and a Personal Attenuation Rating (PAR) is displayed.

It Starts with PAR

The 3M™ E-A-Rfit™ Validation System puts the worker in the context of their noise environment and helps you understand their level of attenuation.

The results you get from the 3M™ E-A-Rfit™ is displayed as a PAR. The PAR is a numerical value that shows the reduction in sound level within the ear when a hearing protector is worn. The resulting PAR, combined with the worker's exposure to noise, is used to determine if a worker is receiving appropriate protection from the noise hazard.

Knowing the PAR lets you identify workers who are inadequately protected, so you can provide real-time intervention and training.

Key Benefits of the 3M™ E-A-Rfit™ Dual-Ear Validation System include:

- Tests both ears simultaneously in less than 5 seconds
- Science-based, quantitative testing
- Fast, clear, and accurate results
- Tests 7 frequencies 125Hz to 8000Hz
- 3M™ Earplug, earmuff and headset (comms) testing capability

Contact your 3M Personal Safety Specialist to find out more about our 3M™ E-A-Rfit™ Dual-Ear Validation System or for assistance in solving your complex or day-to-day hearing conservation challenges

Attenuation Data

3M™ PELTOR™ ProTac™ III Slim Headband Headset - MT13H220A

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	13.1	15.7	22.4	28.2	31.8	38.8	35.9	26dB	5	11.1 N
Standard Deviation (SD) (dB)	3.8	2.1	2.9	2.3	2.4	3.0	4.5			
Means minus SD (dB)	9.3	13.6	19.5	25.9	29.4	35.8	31.4			

Hearing protector Class 5 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

3M™ PELTOR™ ProTac™ III Slim Helmet Attach Headset* MT13H220P3E

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	12.8	15.2	20.7	27.3	31.7	39.2	35.2	24dB	4	11.7 N
Standard Deviation (SD) (dB)	3.5	4.3	4.4	4.0	2.6	4.3	5.0			
Means minus SD (dB)	9.3	10.9	16.3	23.3	29.1	34.9	30.2			

Hearing protector Class 4 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 105dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

3M™ PELTOR™ ProTac™ III Regular Headband Headset - MT13H221A

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	17.6	22.1	29.9	36.4	37.6	38.4	34.9	32dB	5	11.7 N
Standard Deviation (SD) (dB)	3.7	3.7	3.3	2.8	2.2	2.4	2.6			
Means minus SD (dB)	13.9	18.4	26.6	33.6	35.4	36.0	32.3			

Hearing protector Class 5 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

3M™ PELTOR™ ProTac™ III Regular Helmet Attach Headset* MT13H221P3E

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	18.1	21.1	29.4	33.9	35.2	36.2	34.2	30dB	5	12 N
Standard Deviation (SD) (dB)	2.5	1.9	3.9	2.8	2.9	4.2	3.4			
Means minus SD (dB)	15.6	19.2	25.5	31.1	32.3	32.0	30.8			

Hearing protector Class 5 tested to AS/NZS1270. When selected, used and maintained as specified in AS/NZS1269, this protector may be used in noise up to 110dB(A) assuming an 85dB(A) criterion. A lower criterion may require a higher protection class.

* These earmuffs were tested in combination with the HC600 industrial safety helmet using the P3G adapter and may give different levels of protection if fitted to different helmets.

Mean = Mean attenuation value derived from testing in accordance with AS/NZS 1270:2002.

SD = Standard Deviation derived from testing in accordance with AS/NZS 1270:2002.

Mean-SD = Mean attenuation value minus Standard Deviation

SLC₈₀ = Single number rating commonly used in Australia and New Zealand to compare acoustic performance of hearing protectors. The subscript '80' indicates that in well managed hearing protector programs, the protection provided is expected to equal or exceed the SLC80 in 80% of protector-wearer noise spectrum combinations.

Class = A simplified process for selecting hearing protectors based on the wearers 8-hour equivalent continuous A-weighted sound pressure level.

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 and guidance on how to adjust attenuation label value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

The effectiveness of a hearing protector reduces dramatically when the hearing protector does not fit properly, is incorrectly inserted or is not worn 100% of the time during ALL hazardous noise events. Removal of the hearing protector, even for brief moments, substantially reduces protection and greatly increases the risk of hearing damage.

Cleaning and Maintenance

Follow recommended care and cleaning instructions in order to maintain best noise reduction and function.

Cleaning

- Carry out a visual battery condition check. Replace if battery leakage or defects are detected.
- Use a cloth wetted with soap and warm water to clean the outer shells, headband and ear cushions.

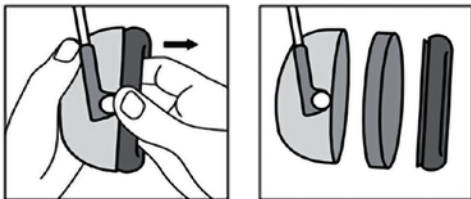
NOTE: Do NOT immerse the hearing protector in water.

If the hearing protector gets wet from rain or sweat, turn the earmuffs outwards, remove the ear cushions and foam liners, and allow to dry before reassembly. The ear cushions and foam liners may deteriorate with use and should be examined at regular intervals for cracking or other damage. When used regularly, 3M recommends replacing the foam liners and ear cushions at least twice a year to maintain consistent attenuation, hygiene, and comfort. In hot and humid environments more frequent changes may be required to maintain acceptable hygiene. If an ear cushion is damaged, it should be replaced.

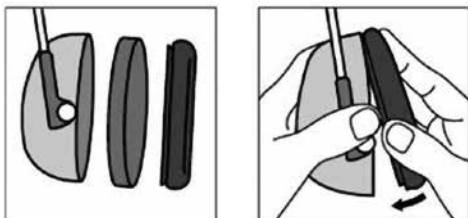
Maintenance - Changing the Hygiene Kit

Cushions and inserts can be replaced by using the approved Hygiene Kits for your 3M™ PELTOR™ Product. See 'Ordering Information' section.

1. Remove the cushions and inserts as shown.



2. Replace the worn or damaged cushions and insert with the new pair from the approved hygiene kit.



- 3M™ PELTOR™ HY100A Clean Hygiene Pads can be applied onto the ear muff cushions to help absorb sweat and moisture for improved comfort and hygiene.

Storage

- Store the product in a clean and dry area before and after use.
- Remove batteries before storing the product for extended periods
- Always store the product in the original packaging and away from any sources of direct heat or sunlight, dust and damaging chemicals.
- Storage temperature range: -20°C (-4°F) to 40°C (104°F).
- Relative humidity: <90%.
- For headband versions: make sure that no force is applied to the headband and that the cushions are not compressed.
- Helmet attachment version: ensure the earmuffs are in the storage position and that the cushions are not compressed.

Disposal

If the product is to be disposed*, it should be disassembled and disposed of as solid waste. Please see local authority regulations for disposal advice and locations

* Discard the product within 5 years from date of manufacture or immediately if damaged or cannot be cleaned.

Australia: Customers must refer to their Local Council Municipal area for disposal of electronics at their end of life.

New Zealand: Customers must dispose of electronics at their end of life in their local e-waste disposal bins.

Ordering Information

3M Code	Model #	Description
Headsets		
UU004637789	MT13H220A	3M™ PELTOR™ ProTac™ III Slim Headband Earmuffs
UU004637771	MT13H220P3E	3M™ PELTOR™ ProTac™ III Slim Helmet Attach Earmuffs
UU004690622	MT13H221A	3M™ PELTOR™ ProTac™ III Regular Headband Earmuffs
UU004690614	MT13H221P3E	3M™ PELTOR™ ProTac™ III Regular Helmet Attach Earmuffs
Accessories - Cable		
XH001676952	FL6CE/1	3M™ PELTOR™ FL6CE/1 3.5 mm Cable
Accessories - Helmet Adaptors/Backplates		
UU010853503	Z3GS/2 (25mm)	Helmet Adapter for 3M™ Scott Safety Helmets and 3M™ Scott Safety Visor Range
XL001642468	Z3E/2 (30mm)	Helmet Adapter for Common Helmets
XL001642484	Z3G/2 (25mm)	Helmet Adapter for 3M™ Visor Range
Accessories - Hygiene		
UU008049353	HY220	3M™ PELTOR™ HY220 Hygiene Kit (cushion and foam liner)
XH001651351	HY100A	3M™ PELTOR™ HY100A Clean Hygiene Pad
3M™ E-A-Rfit™ Dual-Ear Validation System - Probe		
70071691110	393-3001-2	3M™ PELTOR™ Earmuff Probed Test Cushion B

In the box

- 1 x Headset
- 2 x AA batteries
- 1 x User Instruction

Warning

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 TechAssist Helpline 1800 024 464.

Always ensure the hearing protection device (HPD) is:

- Suitable for the application;
- Fitted correctly;
- Worn during all periods of exposure;
- Replaced when necessary.

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. 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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