

3M™ PELTOR™ WS™ LiteCom Plus Headsets

Technical Data Sheet



Description

3M™ PELTOR™ WS™ LiteCom Plus Headsets with Bluetooth® opens up a world of communication. You become a mobile, hands-free communication center, the built-in two-way radio and wireless connections to your computer and cell phone. You can take your calls, or stream music thanks to electronics that let you switch between functions.

The level-dependent technology lets you hear ambient sounds such as external alarm signals or approaching vehicles in low noise. It also allows face to face communication at close distance. Robust design (IP54 certified), clear controls and an intuitive menu system.

Features

- · Built in two-way radio communication
- Range of up to 2km depending on conditions
- 69 channels (LPD 433 MHz)
- 121 subchannels
- Connect different devices (radio, mobile phone) via Bluetooth® Mutli-Point
- IP54 certified
- · Level-dependent function for ambient listening
- Rechargeable Lithium-ion battery with 20 hours operating time
- Noise-cancelling water resistant microphone (IP68)
- Voice-operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice-guided menu system
- Compatible with 3M[™] E-A-Rfit validation system
- Connects with
 - Bluetooth compatible devices
 - Two-way radio (via flex cable or Bluetooth®)

Applications

The 3M™ PELTOR™ WS™ LiteCom Plus earmuffs are ideal for a wide range of applications requiring wireless, hands free, 2-way radio communication in noisy environments. Examples of typical applications include airports, construction, manufacturing as well as mining and utilities. Also, general industries with long production lines and maintenance.







Headband MT73H7A4310WS6AZ



Hearing protection for communicating with external two-way radio



Hearing protection with built in two-way radio





Level-dependent function for ambient listening to help improve situational awareness



Bluetooth® MultiPoint technology for connecting to one or two external devices for hands-free talk and streaming



Standards

3M Svenska AB hereby declares that this 3M™ PELTOR™ Headset is in compliance with the essential requirements and other provisions set out in the ACMA (Australian Communications and Medial Authority) regulations. The product has been tested by an accredited laboratory in accordance with the requirements in AS/NZS 1270 and has met the specifications of hearing protector Class 5. When selected, used and maintained as specified in AS/NZS 1269, this hearing protector may be used in noise up to 110 dB(A) assuming an 85 dB(A) criterion. A lower criterion may require a higher protector class.

Quick Reference	3M™ P	ELTOR™ WS™ LiteCom Plus Hea	ndsets						
Quick Reference	Headband	Neckband	Helmet Attach						
	MT73H7A4310WS6AZ	MT73H7B4310WS6AZ	MT73H7P3E4310WS6AZ						
Attenuation Data SLC80	32dB	30dB	29dB						
Class	5	5	5						
Tested to	AS/NZS1270:2002	AS/NZS1270:2002	AS/NZS1270:2002						
Physical Properties									
Clamp Force	14.1 N	12.6 N	11 N						
Weight (Batteries Included)	447g	434g	473g						
Material Listing			, i						
Cup		ABS Plastic							
Headband	PVC, PA, Stainless Steel Wire	N/A	N/A						
Helmet Attachment Arm / Neckband	N/A	Stainless Steel Wire	Stainless Steel Wire						
Cable		PE,TPE							
Two-Point Fastener		POM							
Cushion		PVC foil and PUR foam							
Insert (Liner)		PUR foam							
Speech Microphone		ABS,PA							
Specifications Built in Two-Way Radio									
Frequency range		LPD 433 MHz							
Operation mode		Simplex							
Channels	69								
Channel separation	12,5 kHz								
Modulation	Analog: FM								
Receiver sensibility	Typical -120 dBm								
Selective squelch	Progra	ammable (supports CTCSS and	DCS)						
Output power		LPD 10mW							
Range	Outdoo	rs up to 2 km depending on con	ditions						
Wired connectivity	3M™ P	ELTOR™ FL6BR Connecting cab	le, J11						
Power									
Battery Type		Li-Ion (ACK081)							
Capacity	3,7 V, 1800 mA, 6,7 Wh								
Operating Time	Up to 18 hours (90 stby / 5 tx / 5 rx)								
Charging time		Approx. 4 Hours							
Microphones & Speakers									
Microphone/ Type		nicrophone, Dynamic 150 Ohm, B=1v/Pa 1KHz) @50CM Frequenc							
Level Dependent Microphone for Ambient Listening	Selisitivity7 Idb±Sdb(Odb	Yes	cy response 200nz~7 kmz						
Speakers	100 Ohn	n +/-15%, SPL 15 +/- 3dB, 100-4	000 Hz						
Storage									
Operating temperature		-20°C(-4°F) to 50°C(122°F)							
Storage temperature	-20°C (-4°F) to 40°C (104°F) <90% humidity								
Product lifetime		Up to 5 years (excl. batteries)							
Other									
Colour		Dark Blue							
Hygiene Kit		HY83							
Compatible with 3M [™] E-A-Rfit [™] Validation System		Yes							
Compatible with 3M [™] Versalfo [™]	No	No	Yes (MT7V/1 M-300 Series Head Top)						
	No N/A	No N/A							

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 earmuffs 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).







Neckband Headset

To fit the hearing protector:

- 1. Place the cups in position over the ears (Fig 1).
- Keep the cups in position, place the head strap on top of your head and lock it tight in position (Fig 2).
- 3. The head strap should be positioned across the top of your head and should support the weight of the headset (Fig 3).

Caution: The neckband earmuffs must be worn with the head strap correctly attached to keep them firmly in position to maintain an effective acoustic seal. The protection level provided by neckband earmuffs may be reduced if the head straps are not worn correctly.



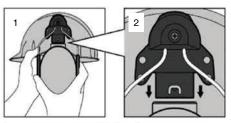




Helmet Attach Headset

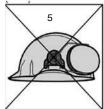
To fit the hearing protector:

- 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 mode: 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™ WS™ LiteCom Plus Headset, Headband MT73H7A4310WS6AZ

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	20.7	23.9	32.0	33.9	36.1	39.6	39.6			
Standard Deviation (SD) (dB)	3.5	3.3	4.0	2.2	3.7	2.6	3.3	32dB	5	14.1 N
Means minus SD (dB)	17.2	20.6	28.0	31.7	32.4	37.0	36.3			

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™ WS™ LiteCom Plus Headset, Neckband MT73H7B4310WS6AZ

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	16.1	18.6	30.1	36.0	37.4	38.0	37.7			
Standard Deviation (SD) (dB)	3.3	4.0	3.8	3.8	4.2	3.7	4.2	30dB	5	12.6 N
Means minus SD (dB)	12.8	14.6	26.3	32.2	33.2	34.3	33.5			

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™ WS™ LiteCom Plus Headset, Helmet Attach MT73H7P3E4310WS6AZ *

AS/NZS 1270:2002

Test Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC ₈₀	Class	Clamp Force
Mean Attenuation (dB)	19.1	20.0	28.4	32.2	34.5	35.9	36.7			
Standard Deviation (SD) (dB)	4.4	4.8	4.6	3.0	3.2	3.9	4.6	29dB	5	11 N
Means minus SD (dB)	14.7	15.2	23.8	29.2	31.3	32.0	32.1			

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.

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.

^{*} 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.

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.

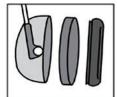
If the hearing protector gets wet from rain or sweat, turn the earmuffs outwards, remove the ear cushions and foam liners, and allow to dry before reassembly. The ear cushions and foam liners may deteriorate with use and should be examined at regular intervals for cracking or other damage. When used 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

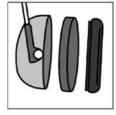
Cushions and inserts can be replaced by using the approved Hygiene Kits for your 3M™ PELTOR™ Product. See 'Ordering Information' section.

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 earmuff 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 battery 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		
UU010265963	MT73H7A4310WS6AZ	3M™ PELTOR™ WS™ LiteCom Plus Headset, Headband
UU010265971	MT73H7B4310WS6AZ	3M™ PELTOR™ WS™ LiteCom Plus Headset, Neckband
UU010264578	MT73H7P3E4310WS6AZ	3M™ PELTOR™ WS™ LiteCom Plus Headset, Helmet Attach
Accessories - Fl	LEX Cable	
XH001652029	FL6BR	3M™ PELTOR™ FL6BR Connecting cable, J11
Accessories - H	elmet 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
XA007702625	Z3AF/2	Helmet Adapter for 3M™ Versaflo M-Series Head Top
Accessories - H	ygiene	
UU008197921	HY83	3M™ PELTOR™ HY83 Hygiene Kit (cushion and foam liner)
XH001651351	HY100A	3M™ PELTOR™ HY100A Clean Hygiene Pad
Accessories - M	licrophone	
UU008163634	MT73/1	3M [™] PELTOR [™] Water Resistant Boom Microphone (IP 68)
UU008014308	MT7V/1	3M™ PELTOR™ Boom Microphone for 3M™ Versalfo™ M-300 Head Top * Z3AF/2 Backplates Included
UU008159483	M171/2	3M™ PELTOR™ M171/2 Wind shield/Wind protector, 2 pcs for speech microphone
XH001652532	M60/2	3M™ PELTOR™ Wind shield for surround/environmental mics
AT010580697	HYM1000	3M™ PELTOR™ HYM1000 Microphone protection
Accessories Pov	wer	
XH001680541	ACK081	3M™ PELTOR™ Rechargeable Li-Ion batterypack (only for WS™ LiteCom Plus Headset, Non Ex)
UU004895189	AL2AI	3M™ PELTOR™ AL2AI Charging cable for ACK081
XH001680194	FR08	3M™ PELTOR™ FR08 Power supply for AL2AI
3M™ E-A-Rfit™ D	Oual-Ear Validation System -	Probe
70071691110	393-3001-2	3M™ PELTOR™ Earmuff Probed Test Cushion B

In the box

- 1 × 3M™ PELTOR™ WS™ LiteCom Plus Headset.
- 1 x Battery (ACK081)
- 1 x Power supply FR08
- 1 x Cable AL2AI (for ACK081)
- 1x Hygiene kit HY83
- 1 x Mic Tape HYM1000-100
- 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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