

**PELTOR™**

The Sound Solution



Peltor™ Blue-Line



# Mining Communication Solutions



# The Power to Protect Your world

## Take your safety personally

3M Peltor communication equipment as well as hearing, head & face protection products for noisy and hazardous environments are renowned world leaders. With more than 60 years of experience, the Peltor brand promises superior quality communication solutions that provide an optimal balance of comfort and protection.

It is our goal is to ensure that we satisfy your needs through the provision of exceptional leadership, expertise, quality and service excellence. With our global technology, manufacturing and knowledge network we do more

than simply develop products that help your workforce to operate in safety and comfort.

The advanced engineering and technology inherent with the Peltor brand fits with the high standard of quality and innovation of a continuously evolving range of product solutions that you, our customers, come to expect from 3M.

A good example of this is that all our ex approved products for underground mining now conforms to the new IECEx standard.

## Improves efficiency, reliability and safety

Clear and reliable communications are critical to success in most mining operations. To be able to communicate whilst at the same time being protected from harmful noise levels is a vital necessity, both for above and under ground situations. Noise levels are often so high that they can cause immediate and permanent damage to the hearing if protection is not worn. At the same time, communication is of prime and vital importance. Commands and information must be heard and understood, both via radio and directly person to person.

# Above Ground

## 3M™ Peltor™ Flex Headset

A smart, comfortable solution

3M Peltor have a wide range of hearing protectors designed for use with communication equipment.

The 3M Peltor Flex is a hearing-protector headset equipped with interchangeable cords that make it easily adaptable to any use. You no longer need multiple headsets if you have several communication radios with different connectors – just switch connector cable.

The same applies if the headset is normally used at work with a communication radio, but taken home for use while mowing the lawn etc, when you can easily connect it to your mobile phone.



MT1H7F2-77



M2RX7A-77



MT53H79A-77



All Peltor headsets are available as helmet attachments.

## 3M™ Peltor™ OraTac

A smart, comfortable solution

OraTac Headset provides all-in-one lightweight hearing protection, ambient (tactical) listening and two-way communication. The earplug tips have tactical microphones in them that allow the user to hear ambient sound at or below 82 dB regardless of the actual external sound level.

Can easily be adapted to different 2-way radios using Peltor Flex cables.



3M Peltor Flex Cable



## Peltor™ Wireless Solutions™

A more effective and flexible way to communicate



Peltor Wireless Solutions™ uses the latest **Bluetooth** technology to make communication in noisy environments easier and more effective. You can always be available – fast, easily and wirelessly. No more problems with snagging cords, and you can use your telephone or com radio even when they're not in sight. Peltor Wireless Solutions™ isn't just about headsets, it also includes adaptors for communication systems that don't have built-in **Bluetooth**.

This allows Peltor™ to offer a wireless solution for nearly all communication systems.



### 3M™ Peltor™ WS™ Headset XP

Peltor's wireless communication headset has a built-in **Bluetooth** circuit that can quickly and easily connect to another **Bluetooth** unit up to 10 metres away. With built-in advanced VOX and DSP the headset is well suited for high noise environments.



### Peltor FL6000-WS5 Adapter

The Peltor Wireless Solutions™ series now also includes new adapters with built-in **Bluetooth**.

The adapter connects to your communication unit – a com radio or Tetra radio terminal that does not have built-in **Bluetooth**.

## Peltor™ LiteCom

Built in 2-way communication radio

The 3M Peltor LiteCom is a high-performance hearing protector with a built-in communication radio for "hands free" short-range communication with other LiteCom headsets and com radio devices on the same frequency. An auxiliary input allows you to connect a cellular phone or external com radio, regardless of frequency. For safety reasons, the "external" system has signal priority.

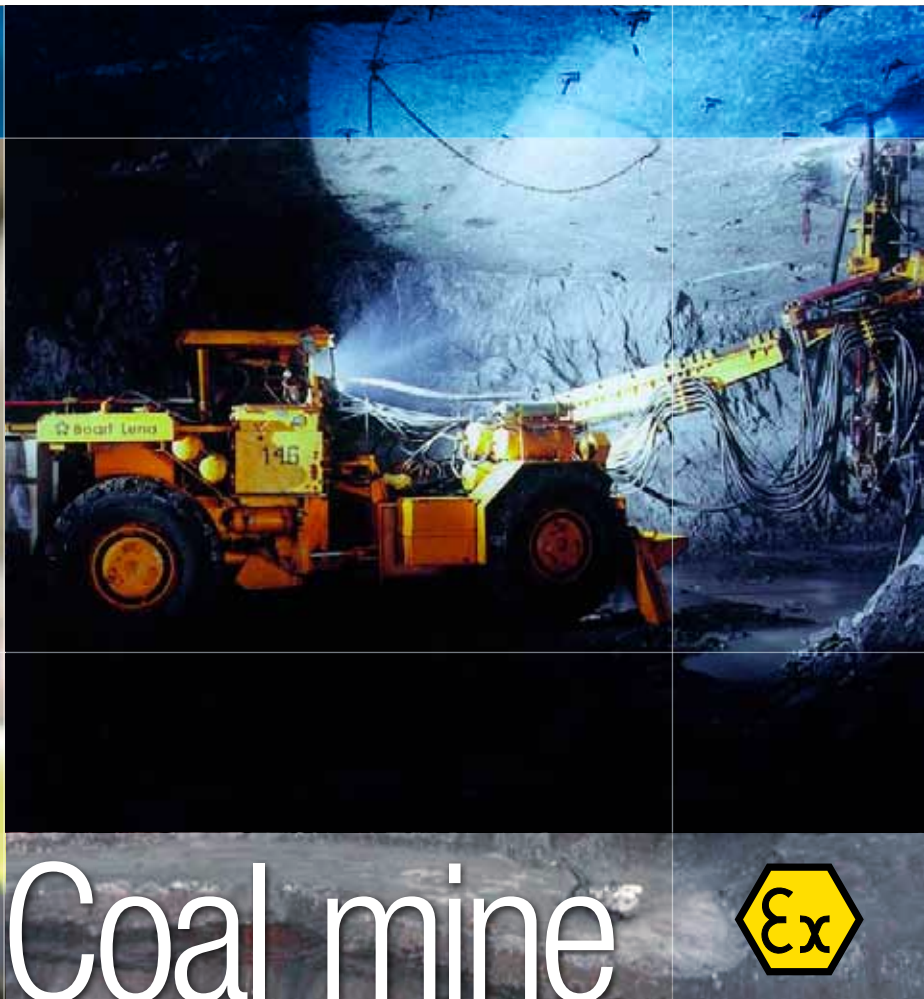
### Communication radio with hands-free operation

The WS LiteCom communication headset has a built in communication radio, working on the eight "PMR" frequencies at 446 MHz, which are license free in Europe.

The maximum working range with the communication radio in the WS LiteCom is approximately 2 km outdoors, with the highest output power 200 mW.

The radio can be operated fully "hands-free". With the VOX function (Voice Operated Transmission), the radio transmits when you just speak into the microphone, while you continue to do your work simultaneously. And it stops the transmission as soon as you stop talking.





# Coal mine Solutions



Adapter



Helmet attachment



Headband



Neckband

## 3M™ Peltor™ Blue-Line

Peltor Blue-Line is a series of intrinsically safe products designed for extreme environments. Developed in close collaboration with demanding users, these products have undergone rigorous testing in harsh environments.

The results prove that we can meet the demands and make communication easier and more reliable despite external factors.

The Peltor Blue-Line series is approved under the ATEX / IECEx directive and is also in compliance with the hearing standard EN352.

# 3M™ Peltor™ Communication Solutions

## 3M™ Peltor™ LiteCom Pro II Programmable Wireless Communication Headset

### Versatile

The new Peltor LiteCom Pro II is a communication headset with high attenuation ear protection and a built-in short range communication radio for integration with industrial or other professional radio communication systems.

The boom mounted noise cancelling microphone is adjustable in all directions.

VOX function facilitates hands-free operation, while the PTT button makes it possible to communicate in extremely noisy areas, or whenever “push-to-talk” is wanted.

### Programmable

Up to 30 radio channels are programmable in the 403-430–470 MHz frequency range with Peltor Radio Software. The selective squelch function with CTCSS tones or DCS digital codes, allows multiple users to work on the same channel without listening to each others communication.

Despite the high noise attenuating cups for your hearing protection, it is also possible to hear important sounds from the surroundings, for instance warning tones or a call of distress. Two external microphones pick up the surround sound for internal reproduction in stereo.

The sound level from the speakers is limited to 82 dB, for a full day's use of your headset without problems. You can also communicate with people standing close by in a noisy environment, without jeopardizing your hearing by lifting a cup.

To further increase the possibilities for wireless communication you can connect external electronic equipment to your LiteCom Pro headset, for example a cell phone, a communication radio or almost any other audio source.

There is also an accessory cable with a PTT button, enabling remote PTT control of the Peltor LiteCom Pro II built-in radio.

### Low power

Operating time is up to 17 hours, using the Peltor™ ACK08. The working range with maximum output power is up to 3 km outdoors depending on actual conditions.

### Easy to use

There are only four conveniently positioned function keys to handle all settings. Internal voice messages confirm all changes of modes and settings. The last setting is stored when the unit is switched off.

Models	Product code	Frequency	Ch. spacing	Weight
Headset headband	MT7H7F4010-50	403-470 MHz	12,5/20/25 kHz	540 g
Headset neckband	MT7H7B4010-50	403-470 MHz	12,5/20/25 kHz	500 g
Headset helmet	MT7H7P3E4010-50	403-470 MHz	12,5/20/25 kHz	540 g

#### Attenuation MT7H7F4010-EU-50

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean attenuation (dB)	16.5	17.5	22.5	30.3	34.0	33.6	37.7	33.8	32 dB	28 dB	21 dB	31 dB
St. dev. (dB)	3.2	2.9	2.7	2.9	2.5	2.8	2.0	3.7				
APValue (84%)	13.3	14.6	19.8	27.4	31.5	30.8	35.7	30.2				

#### Attenuation MT7H7B4010-EU-50

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean attenuation (dB)	17.7	17.9	23.3	30.5	34.5	33.5	38.1	34.7	32 dB	29 dB	21 dB	31 dB
St. dev. (dB)	3.7	3.7	3.1	2.2	2.2	3.1	3.1	2.3				
APValue (84%)	14.0	14.3	20.2	28.3	32.3	30.5	35.0	32.5				

#### Attenuation MT7H7P3E4010-EU-50

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean attenuation (dB)	15.2	16.9	22.0	30.0	34.5	33.1	36.7	34.7	32 dB	28 dB	20 dB	30 dB
St. dev. (dB)	4.0	3.7	2.9	3.3	2.6	2.4	2.0	3.3				
APValue (84%)	11.1	13.2	19.2	26.7	31.9	30.7	34.6	31.3				



I M1 Ex ia I Ma  
II 1G Ex ia IIC T4 -20°C ≤ Ta ≤ +50°C Ga  
II 1D Ex ia IIIC T130°C Da



MT7H7F4010-EU-50



MT7H7B4010-EU-50



MT7H7B4010-EU-50



# 3M™ Peltor™ Tactical™ XP Headset

## New options for volume settings

The Peltor Tactical XP protects you from harmful noise and impulse sounds, while allowing and even amplifying ambient sounds such as conversation, machine noises and warning signals. The built-in functions of the Tactical XP make it quite different from other active hearing protectors: the user can control and vary the volume function for the current situation. When necessary, ambient noise can be amplified more than any other Peltor hearing protector allows. Peltor Tactical XP lets you hear what you want to hear and blocks out all harmful noise. Each function and setting is indicated by a voice message. Peltor Tactical XP is also available without boom microphone.

- Fail safe functions which enable communication if batteries run out
- Equipped with the following functions: volume for the level dependent function, balance, adjustable release time, equalizer, volume for external input and external input mode
- Last setting is stored when switched off
- Automatic shut-off after two hours if no function is used
- Warning signal when power is low, before shut-off
- Battery life time approximately 800 hours

Models	Connector	Product code	Weight
Folding headband		MT1H7F2-51	390 g
Neckband		MT1H7B2-51	375 g
Helmet attachment		MT1H7P3E2-51	425 g
Headset headband	J11, TP-120	MT1H7F2-07-51	400 g
Headset helmet	J11, TP-120	MT1H7P3E2-07-51	435 g

Headset with 0.4–1.0 m long spiral cord for connection to the Peltor Adapter



Ex II 2G Ex ia IIC T4  
Ex I M1 (-51 products)

### MT1H7F2\* MT7H7B2\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14,0	22,4	28,1	33,8	33,4	35,4	38,7
Standard Deviation (dB)	1,5	2,7	1,7	2,3	2,6	2,3	1,8
Assumed Protection (dB)	12,0	19,7	26,4	31,5	30,8	33,1	36,9

SNR=30 H=33 M=28 L=20

### MT1H7P3E2\*

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13,8	21,5	30,9	36,6	35,9	35,5	39,0
Standard Deviation (dB)	1,8	0,9	1,3	1,5	5,5	3,1	2,3
Assumed Protection (dB)	12,0	20,6	29,6	35,1	30,4	32,4	36,7

SNR=31 H=32 M=29 L=20

## 3M™ Peltor™ Adapter - the reliable link

The adapter with PTT function between the headset and the communication radio is crucial for communication. This means that you must always have the adapter within reach and yet out of the way. The adapter needs to tolerate rough treatment and harsh climates, day after day. The 3M™ Peltor™ Adapter has what it takes.

- The PTT button is logically positioned and easy to use, even with thick gloves on.
- A sturdy clamp on the back can be twisted 360 degrees for easy, flexible use in all situations.
- The whole adapter, and particularly the contact, is designed to keep moisture away from the electronics.



Ex II 2 G Ex ia IIC T4  
Ex I M1



Product Code	Communication radios
FL5205	Ascom Tateco CTS900, Ericsson Freeset
FL5212	Motorola MX1000, MX2000, MX3000
FL5214	Motorola GP300 / Radius P110
FL5216	Ericsson P50/50
FL5218	Motorola HT1000, MT2000, GP900, GP1200
FL5230	Motorola GP320/340
FL5245	Atlantis TP8000
FL5237	Ascom 9D24 Ex
FL5244	Icom F51/61 Ex
FL52103	Funkwerk FT4 Ex
FL52107	Kenwood TK-2260/3260 Ex
FL52137	Ascom d81 Ex

### Technical data

Conforms to the CE requirements in the EU's EMC directive 89/336/EEG. Sealed to IP65 according to IEC 60529



3M Occupational Health &  
Environmental Safety Division  
3M Svenska AB, Box 2341  
SE-331 02 Värnamo  
Sweden  
Phone: +46 (0) 370 65 65 65  
Fax: +46 (0) 370 65 65 99  
Email: [peltorcommunications@mmm.com](mailto:peltorcommunications@mmm.com)  
Internet: [www.3M.com/Peltorcomms](http://www.3M.com/Peltorcomms)

© 3M 2012. All rights reserved.  
3M™ Peltor™ WS Headset XP is made in Sweden by 3M Svenska AB, SE-331  
02, Värnamo, Sweden.  
  
3M, Peltor and Peltor WS are trademarks of 3M Corporation, St. Paul, MN  
55144-1000, USA  
Bluetooth is trademark of Bluetooth SIG, Kirkland, Washington, USA  
Please recycle. Printed in Sweden.